Product Catalog



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Megapixel & IP Product Family



V6202-T00 & V6202-T02 Series HD 1MP and 2MP Low Light IP Camera



















- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- **Supports WDR function**
- **Onvif Profile S**
- Sensitivity: 0.01 lux
- High-resolution image signal output: 1920×1080@30fps or 1280×720@30fps
- Small bandwidth occupancy and high image quality
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Smooth dynamic video replay
- Supports anti-reflection function
- Bi-directional audio, G.711
- Supports storage with SD card
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports active video tampering
- **Local Recording**
- 2 alarm inputs, 1 relay output
- Supports multiple ways to handle alarms, such as email sending, FTP upload and relay output
- Supports simultaneous multi-user access and parameter configuration via Web Server
- Compatible with Infinova's V2216, and other digital video surveillance software
- Provides standard SDK, easily incorporated with other video surveillance software
- Supports public access
- With analog video debugging interface

V6202-T00&V6202-T02 series HD 1MP and 2MP low light IP camera adopts 1/3" progressive scan CMOS sensor. H.264 High profile/M-JPEG video compression format allows image output resolution up to 1920×1080@30fps or 1280×720@30fps.

The camera supports three simultaneous video streams, bi-directional audio and G.711 audio compression. Functioned with ICR day/night switch, motion detection, privacy mask, alarm input/output and local recording, V6202-T00&V6202-T02 series is bound to enhance security and convenience for your CCTV surveillance system.

V6202-T00&V6202-T02 series is widely used in public security, subways, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

Image Sensor	1/3" progressive scan CMOS
Dynamic Range	72.4dB
Lens Mount	C/CS
Auto Iris	DC drive
Day/Night Functionality	ICR
Sensitivity	V6202-T00: Color mode: 0.03 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0.008 lux @ F1.2 (30IRE, AGC ON) V6202-T02: 0.05 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0.01 lux @ F1.2 (30IRE, AGC ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/25s~1/8000s)
White Balance	Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
Gain Control	Auto/Manual
Noise Reduction	3D
Video Compression	H.264 High profile/M-JPEG
Maximum Resolution	V6202-T02: 1920×1080@H.264/M-JPEG; V6202-T00: 1280×720@H.264/M-JPEG
Optional Resolution	V6202-T02: Major stream: 1920×1080, 1280×1024, 1280×960, 1280×720, 1024×768, 800×600, Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240; V6202-T00: Major stream: 1280×720, 1024×768, 800×600, Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240
Maximum Frame Rate	V6202-T02: 30fps@1920×1080; V6202-T00: 30fps@1280×720
Data Rate	Variable bit rate; Constant bit rate: 256Kbps~10000Kbps
Audio	Audio Compression: G.711-u; 1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)

Motion Detection	Up to 4 areas	
Privacy Mask	Up to 4 masks	
Network Delay	≤250ms	
Local Recording	Available	
SD Card Storage	Available, up to 32G	
Upgrade Online	Available	
Password Protection	Available	
Alarm	2 alarm inputs, 1 relay output	
Network Port	1 RJ45 10/100M self-adaptive Ethernet port	
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S	
Power Supply	PoE IEEE 802.3af Class 2/12VDC/24VAC	
Power Consumption	PoE or 24VAC: <4W; 12VDC: <4.5W	
Operating Temperature	14°F~122°F (-10°C~50°C)	
Storage Temperature	-4°F~140°F (-20°C~60°C)	
Operating Humidity	0%~90% RH (non-condensing)	
Dimensions (HxWxL)	2.52"x2.88"x5.66" (64mm×73.2mm×143.8mm)	
Box Dimensions (LxWxH)	8.07"x4.92"x3.94" (205mm×125mm×100mm)	
Unit Weight	0.88lbs. (0.40kg)	
Shipping Weight	1.32lbs. (0.60kg)	
Certifications and Approval		
Product	CE/EMC: EN 55022, EN 55024, EN 50130-4-2011 ¹ ,	

Product	CE/EMC: EN 55022, EN 55024, EN 50130-4-2011 ¹ ,
Certifications	FCC: Part 15 Subpart A ² , UL 60950-1 ³ ,
	ISO 9001:2008

Certificate No.: 1 SET2013-00353; 2 SET2013-00371; 3 E232008-A28-UL.

Ordering information

V6202-T0220 HD Megapixel IP fixed camera, Day/night,

1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx,

PoE/12VDC/24VAC

V6202-T0020 HD Megapixel IP fixed camera, Day/night,

1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx,

PoE/12VDC/24VAC

ACCESSORIES

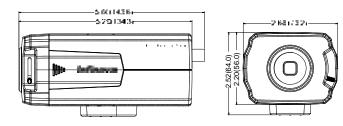
Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC

Recommended Mounts

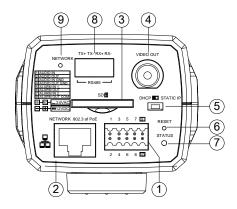
V1551-7 Fixed camera direct mount; 7 inch V1551-10 Fixed camera direct mount; 10 inch

Dimensions



(Unit: inch, in the parentheses is mm)

Back panel



- (1) Input/Output Port
- (2) Network Port (used for PoE power supply)
- (3) SD Card Slot
- (4) Analog Video Output
- (5) IP Address Assignment Selection
- (6) Reset
- (7) Power LED Indicator
- (8) RS485 Port
- (9) Network Indicator

Pin Assignment of (1) Input/Output Port

1	Audio In	2	Audio Out
3	Audio/Alarm GND	4	Audio/Alarm GND
5	Alarm In 1	6	Alarm Out
7	Alarm In 2	8	Alarm Out COM
9	Power Input (12VDC-/24VAC)	10	Power Input (12VDC+/24VAC)

V6202-T03 Series HD 3MP Low Light IP Camera







- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching Supports Digital WDR function
- **Onvif Profile S**
- Sensitivity: 0.01 lux
- High-resolution image signal output: 2048×1536@20fps or 1920×1080@30fps
- Small bandwidth occupancy and high image quality
- Maximum frame rate: 30fps@1920×1080
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Smooth dynamic video replay
- Supports anti-reflection function
- Bi-directional audio, G.711
- Supports storage with SD card
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports active video tampering
- **Local Recording**
- 2 alarm inputs, 1 relay output
- Supports multiple ways to handle alarms, such as email sending, FTP upload and relay output
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible with Infinova's V2216 and other digital video management software
- Provides standard SDK, easily incorporated with digital surveillance systems from a different supplier
- Supports public access
- With analog video debugging interface

V6202-T03 series HD 3MP IP camera uses 1/3" progressive scan CMOS sensor. H.264 High profile/M-JPEG video compression format allows image output resolution up to 2048×1536@20fps or 1920×1080@30fps.

The camera supports three simultaneous video streams, bi-directional audio and G.711 audio compression. Functioned with ICR day/night switch, motion detection, privacy mask, alarm input/ output and local recording, V6202-T03 series is bound to enhance security and convenience for your CCTV surveillance system.

V6202-T03 series is widely used in financial institutions, telecommunications, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

Image Sensor	1/3" progressive scan CMOS
Dynamic Range	72.4dB
Lens Mount	c/cs
Auto Iris	DC drive
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.07 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0.01 lux @ F1.2 (30IRE, AGC ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/25s~1/8000s)
White	Auto/Manual/Incandescent light/Cool white
Balance	fluorescent light/Sun light/Cloudy/Natrium light
Gain Control	Auto/Manual
Noise	3D
Reduction	
Video Compression	H.264 High profile/M-JPEG
Maximum Resolution	2048×1536@ H.264/M-JPEG
	H.264 Major stream: 2048×1536, 1920×1080,
Optional	1280×1024, 1280×960, 1280×720, 1024×768, 800×600;
Resolution	H.264 Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240
Maximum	20fps@2048×1536;
Frame Rate	30fps@1920×1080
Data Data	Variable bit rate;
Data Rate	Constant bit rate: 256Kbps~10000Kbps
Network Delay	≤250ms
Audio	Audio Compression: G.711-u;
	1 input (Linear level, Resistance: 1000 Ohm),
	1 output (Linear level, Resistance: 600 Ohm)
Motion Detection	Up to 4 areas

Privacy Mask	Up to 4 masks	
Local Recording	Available	
SD Card Storage	Available, up to 32G	
Upgrade Online	Available	
Password Protection	Available	
Alarm	2 alarm inputs, 1 relay output	
Network Port Applicable Protocols	One RJ45 10/100M self-adaptive Ethernet port IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S	
Power Supply	PoE IEEE 802.3af Class 2/12VDC/24VAC	
Power Consumption	<4.5W	
Operating Temperature	14°F~122°F (-10°C~+50°C)	
Storage Temperature	-4°F~140°F (-20°C~+60°C)	
Operating Humidity	0%~90% RH (non-condensing)	
Dimensions (HxWxL)	2.52"x2.88"x5.66" (64mm×73.2mm×143.8mm)	
Box Dimensions (LxWxH)	8.07"x4.92"x3.94" (205mm×125mm×100mm)	
Unit Weight	0.88lbs. (0.40kg)	
Shipping Weight	1.32lbs. (0.60kg)	
Certifications and Approval		
Product	CE/EMC: EN 55022, EN 55024, EN 61000-3-2,	
Certifications	EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , UL 60950-1 ³ , ISO 9001:2008	
	2	

Certificate No.: ¹CTL1402140178-EC; ²CTL1402140178-FC; ³E232008-A32-UL.

Ordering information

V6202-T0320 HD Megapixel low-light IP camera, Day/night,

1/3 inch CMOS sensor, H.264/M-JPEG, 3.0Mpx,

PoE/12VDC/24VAC

ACCESSORIES

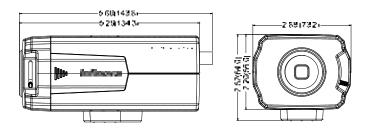
Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC

Recommended Mounts

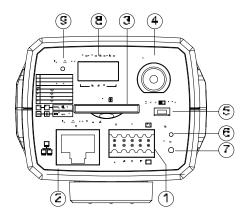
V1551-7 Fixed camera direct mount; 7 inch V1551-10 Fixed camera direct mount; 10 inch

Dimensions



(Unit: inch, in the parentheses is mm)

Back panel



- (1) Input/Output Port
- (2) Network Port (used for PoE power supply)
- (3) SD Card Slot
- (4) Analog Video Output
- (5) IP Address Assignment Selection
- (6) Reset
- (7) Power LED Indicator
- (8) RS485 Port
- (9) Network Indicator

Pin Assignment of (1) Input/Output Port

1	Audio In	2	Audio Out
3	Audio/Alarm GND	4	Audio/Alarm GND
5	Alarm In 1	6	Alarm Out
7	Alarm In 2	8	Alarm Out COM
9	Power In (12VDC-/24VAC)	10	Power In (12VDC+/24VAC)

V6202IR-TA/TX Series









- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- **Motorized zoom lens for Auto Focus**
- High-performance IR illuminators, 30m or 50m illumination distance
- Smart-IR technology, no image overexposure or underexposure
- Long service life and easy replacement for the illuminators
- **Supports WDR function**
- Onvif Profile S
- High-resolution image signal output: up to 1920×1080@30fps
- Small bandwidth occupancy and high image quality Maximum frame rate: 30fps@1920×1080
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Smooth dynamic video replay
- Supports anti-reflection function
- Bi-directional audio, G.711
- Supports storage with TF card
- Supports active video tampering
- Motion detection, privacy mask and Local Recording
- 2 alarm inputs, 1 relay output
- Supports multiple ways to handle alarms, such as email sending, FTP upload and relay output
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with Infinova V2216 and other digital video surveillance software
- Standard SDK is provided for easy integration with other video surveillance software
- Supports public access
- With analog video debugging interface
- IP66 environmental rating
- IK10 for all metal enclosure

V6202IR-TA/TX series HD 2MP IR IP camera uses 1/3" progressive scan CMOS sensor. H.264 High profile/M-JPEG video compression format allows image output resolution up to 1920×1080@30fps.

The camera supports three simultaneous video streams, bi-directional audio and G.711 audio compression. Functioned with ICR day/night switch, motion detection, privacy mask, alarm input/output and local recording, V6202IR-TA/TX series is bound to enhance security and convenience for your CCTV surveillance system.

Boasting of built-in motorized zoom lens with the focal length 2.8-12mm, 4-9mm, and 9-22mm optional, V6202IR-TA/TX series can achieve long-distance auto focus.

With Smart-IR technology, the camera effectively avoids the image overexposed and underexposed, with the illumination distance up to 30m or 50m.

V6202IR-TA/TX series is widely used in public security, subways, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

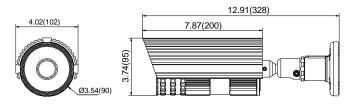
Image Sensor	1/3" progressive scan CMOS
Dynamic Range	72.4dB
Lens	V6202IR-TA220F, V6202IR-TX224F: F1.2, f=4-9mm; horizontal angle: 62.8° (wide)~35.2° (tele); V6202IR-TA220H, V6202IR-TX224H: F1.5, f=9-22mm; horizontal angle: 31.6° (wide)~14.5° (tele) V6202IR-TA220P, V6202IR-TX224P: F1.4, f=2.8-12mm; horizontal angle: 80° (wide)~30° (tele);
IR Wavelength	850nm
IR Illumination Distance	V6202IR-TA220F, V6202IR-TX224F: 30m V6202IR-TA220H, V6202IR-TX224H: 30m V6202IR-TA220P, V6202IR-TX224P: 50m
Day/Night Functionality	ICR
Sensitivity	0 lux (IR on)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/25s~1/8000s)
White Balance	Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
Gain Control	Auto/Manual
Noise Reduction	3D
Video Compression	H.264 High profile/M-JPEG
Maximum Resolution	1920×1080@H.264/M-JPEG
Optional Resolution	Major stream: 1920×1080, 1280×1024, 1280×960, 1280×720, 1024×768, 800×600; Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240
Maximum Frame Rate	30fps@1920×1080
Data Rate	Variable bit rate; Constant bit rate: 256Kbps~10000Kbps
Network Delay	≤250ms

Audio	Audio Compression: G.711-u; 1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)
Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
Local Recording	Available
TF Card Storage	Available, up to 32G
Upgrade Online	Available
Password Protection	Available
Network Port	One RJ45 10/100M self-adaptive Ethernet port
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S
Alarm	2 alarm inputs, 1 relay output
Power Supply	V6202IR-TA: PoE IEEE 802.3af Class 3/12VDC/ 24VAC; V6202IR-TX: 12VDC/24VAC
Power	V6202IR-TA: <11W (1.5A at 12VDC);
Consumption	V6202IR-TX: < 20W (w/heater) (2.5A at 12VDC)
Operating Temperature	V6202IR-TA: -4°F~140°F (-20°C~60°C); V6202IR-TX: -40°F~140°F (-40°C~60°C) (w/heater)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Operating Humidity	0%~90% RH (non-condensing)
Dimensions (HxWxL)	3.74"×4.02"×12.91" (95mm×102mm×328mm)
Box Dimensions (LxWxH)	14.96"×7.87"×5.91" (380mm×200mm×150mm)
Unit Weight	3.86lbs. (1.75kg)
Shipping Weight	4.92lbs. (2.23kg)
Certifications a	nd Approval
Product Certifications	IK10: IEC62262 ¹ , CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ² , FCC: Part 15 Subpart B Class B ³ , UL 60950-1 ⁴ , ISO 9001:2008
rtificate No.: 1EFSN14040805	E-L02; ² CTL1401100052-EC; ³ CTL1401100052-FC; ⁴ E232008-A34-UL.

Ordering information

V6202IR-TA220F	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 30m IR range, PoE/12VDC/24VAC, 4-9mm motorized zoom lens
V6202IR-TA220H	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 50m IR range, PoE/12VDC/24VAC, 9-22mm motorized zoom lens
V6202IR-TA220P	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 30m IR range, PoE/12VDC/24VAC, 2.8-12mm motorized zoom lens
V6202IR-TX224F	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 30m IR range, w/heater, 12VDC/24VAC, 4-9mm motorized zoom lens
V6202IR-TX224H	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 50m IR range, w/heater, 12VDC/24VAC, 9-22mm motorized zoom lens
V6202IR-TX224P	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 30m IR range, w/heater, 12VDC/24VAC, 2.8-12mm motorized zoom lens

Dimensions



(Unit: inch, in the parentheses is mm) $\,$

V6202IR-H00 & V6202IR-H01 Series HD 1MP and 1.3MP IR IP Fixed Camera







- 1/3" progressive scan CMOS sensor
- Built-in dot matrix IR illuminators, at 850nm wavelength, up to 30 meters illumination distance
- The output power of the IR illuminator can be automatically adjusted according to the lighting condition
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Resolution up to 960P or 720P
- Smooth videos, with the frame rate up to 30fps
- Support Horizontal/Vertical Mirror
- Supports corridor mode
- Support WDR function
- **Backlight Compensation**
- Local Recording
 Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Support video mask alarm
- Alarms triggered by motion detection link with email sending and FTP upload
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with Infinova V2216 and other digital video surveillance software
- Standard SDK is provided for easy integration with other systems
- **Onvif Profile S**
- Compact structure for easy installation
- Support analog video output
- 12VDC power supply
- IP66 environmental rating

V6202IR-H00 & V6202IR-H01 series HD 1MP and 1.3MP IR IP fixed camera features 1/3" progressive scan CMOS sensor and built-in 3.0 megapixel fixed lens (4mm/6mm/8mm/12mm optional). With H.264/M-JPEG compression format utilized, this camera can output HD full-frame videos with the resolution up to 960P or 720P. The built-in dot matrix IR illuminators allow a maximum of 30 meters illumination distance (the distance will be different for different lenses). It's a perfect solution for a 24x7 around-the-clock surveillance.

The camera supports the function of strengthening ROI encoding, so as to improve the image quality of key areas under low-band network environment.

The camera supports three simultaneous video streams. It also provides motion detection, privacy mask, video mask alarm, image snapshot, local recording, noise deduction, backlight compensation, WDR functions, etc. Alarm can be associated with email sending and FTP upload.

Compact structure makes it easy to install.

V6202IR-H00 & V6202IR-H01 series is widely used in normal buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots and other high-resolution surveillance applications.

Image Sensor	1/3" progressive scan CMOS
Dynamic Range	72.4dB
S/N Ratio	50dB
Lens	F1.6, f=4mm, 6mm, 8mm, 12mm
IR Illumination Distance	30m (Max)
Day/Night Functionality	ICR
Sensitivity	Olux(IR on)
Exposure	Scene mode, manual mode, shutter priority mode
Shutter	Auto/Manual (1/30s~1/8000s)
White Balance	Auto/Manual/Incandescent light/ Cool white fluorescent light/Sun light/Cloudy/Natrium light
D-WDR	Available
Gain Control	Auto/Manual (maximum: 64X)
Noise Reduction	3D
Mirror	Horizontal/Vertical
Corridor Mode	Available
Image Effect	Brightness, sharpness, hue, contrast, saturation adjustable
Video Compression	H.264 main profile/M-JPEG
Maximum Resolution	V6202IR-H00: 1280×720@H.264/M-JPEG V6202IR-H01: 1280×960@H.264/M-JPEG
	V6202IR-H00: Major stream: 1280×720
Optional	Minor stream: 640×480, 320×240
Resolution	V6202IR-H01:
	Major stream: 1280×960, 1280×720;
	Minor stream: 640×480, 320×240
Maximum Frame Rate	V6202IR-H00: 30fps@1280×720 V6202IR-H01: 30fps@1280×960
Data Rate	Variable bit rate; Constant bit rate: Major stream: 256Kbps~10000Kbps; Minor stream: 256Kbps~2000Kbps

Network Delay	≤180ms
Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
ROI	Up to 4 regions
Local Recording	Available
Upgrade Online	Available
Password Protection	Available
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Analog Video Output	Available via BNC port
Network Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP,RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, Qos, PPP0E, DNS, DDNS, ARP, ICMP, UPnp
Power Supply	12VDC
Power	<7W
Consumption	<10W (w/ heater)
Operating	-4° F ~ 140° F (-20° C ~ 60° C)
Temperature	-40° F ~ 140° F (-40° C ~ 60° C) (w/ heater)
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	2.64"×4.35"×6.83" (67mm×110.4mm×173.5mm)
Box Dimensions (L×W×H)	9.17"×6.58"×5.83" (233mm×167mm×148mm)
Unit Weight	1.37lbs. (0.62kg)
Shipping Weight	1.87lbs. (0.85kg)
Certifications and	Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001: 2008
Certificate No.: 1CTL1404	.150729-EC: ² CTL1404150729-FC.

Ordering information

V6202IR-H0025A	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, 12VDC, 4mm fixed lens
V6202IR-H0025B	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, 12VDC, 6mm fixed lens
V6202IR-H0025C	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, 12VDC, 8mm fixed lens
V6202IR-H0025D	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, 12VDC, 12mm fixed lens
V6202IR-H0125A	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.3Mpx, 12VDC, 4mm fixed lens
V6202IR-H0125B	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.3Mpx, 12VDC, 6mm fixed lens
V6202IR-H0125C	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.3Mpx, 12VDC, 8mm fixed lens
V6202IR-H0125D	HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.3Mpx, 12VDC, 12mm fixed lens

Note: The models mentioned above have no heaters. If needed, please add X to the end of the models .For example:

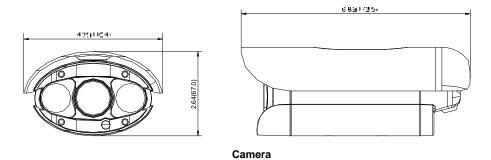
V6202IR-H0025AX HD Megapixel IR IP camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, w/ heater, 12VDC, 4mm fixed lens

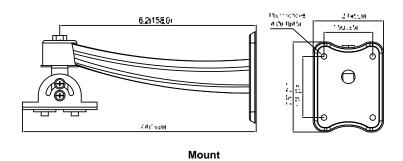
Optional Products

V1554-6 Camera mount, 6 inch high

N3925-12D-1 Exterior power, 100~240VAC input, 12VDC output, 1.5A

Dimensions





(Unit: inch, in the parentheses is mm)

V6202IR-H02 Series HD 2MP IR IP Fixed Camera







- 1/2.8" progressive scan CMOS sensor
- Built-in dot matrix IR illuminators, at 850nm wavelength, up to 30 meters illumination distance
- The output power of the IR illuminator can be automatically adjusted according to the lighting condition
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Resolution up to 1080P
- Smooth videos, with the frame rate up to 30fps
- Support Horizontal/Vertical Mirror
- Support Corridor mode
- Support WDR function
- Backlight Compensation
- Local Recording
- Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Support video mask alarm
- Alarms triggered by motion detection link with email sending and FTP upload
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with Infinova V2216 and other digital video surveillance software
- Standard SDK is provided for easy integration with other systems
- Onvif Profile S
- Compact structure for easy installation
- Support analog video output
- 12VDC power supply
- IP66 environmental rating

V6202IR-H02 series HD 2MP IR IP fixed camera features 1/2.8" progressive scan CMOS sensor and built-in 3.0 megapixel fixed lens (4mm/6mm/8mm/12mm optional). With H.264/M-JPEG compression format utilized, this camera can output HD full-frame videos with the resolution up to 1080P. The built-in dot matrix IR illuminators allow a maximum of 30 meters night illumination distance (the distance will be different for different lenses). The output power of the illuminator can be automatically adjusted according to the lighting condition, thus the IR illuminators will be free of full-load operation. This also lowers the overall power consumption and prolongs the lifespan of the device.

The camera supports the function of strengthening ROI encoding, so as to improve the image quality of key areas under low-band network environment.

The camera supports three simultaneous video streams. It also provides motion detection, privacy mask, video mask alarm, image snapshot, local recording, noise deduction, backlight compensation and WDR functions. Alarm can be associated with email sending and FTP upload.

Compact structure makes it easy to install.

V6202IR-H02 series is widely used in normal buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots and other high-resolution surveillance applications.

Image Sensor	1/2.8" progressive scan CMOS
S/N Ratio	50dB
Dynamic Range	72dB
Lens	F1.6, f=4mm, 6mm, 8mm, 12mm
IR Illumination Distance	30m (Max)
Day/Night Functionality	ICR
Sensitivity	Olux(IR on)
Exposure	Scene mode, manual mode, shutter priority mode
Shutter	Auto/Manual (1/30s~1/8000s)
White Balance	Auto/Manual/Incandescent light/ Cool white fluorescent light/Sun light/Cloudy/Natrium light
WDR	Available
Gain Control	Auto/Manual (maximum: 64X)
Noise Reduction	3D
Mirror	Horizontal/Vertical
Corridor Mode	Available
Image Effect	Brightness, sharpness, hue, contrast, saturation adjustable
Video Compression	H.264 main profile/M-JPEG
Maximum Resolution	1920×1080@H.264/M-JPEG
Optional Resolution	Major stream: 1920×1080, 1280×960, 1280×720 Minor stream: 640×480, 320×240
Maximum Frame Rate	30fps@1920×1080
Data Rate	Variable bit rate; Constant bit rate: Major stream: 256Kbps~10000Kbps; Minor stream: 256Kbps~2000Kbps
Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks

ROI	Up to 4 regions
Network Delay	≤180ms
Local Recording	Available
Upgrade Online	Available
Password Protection	Available
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Analog Video Output	Available via BNC port
Network Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP,RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, Qos, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Power Supply	12VDC
Power	<7W
Consumption	<10W(w/heater)
Operating	-4° F ~ 140° F (-20° C ~ 60° C)
Temperature	-40° F ~ 140° F (-40° C ~ 60° C)(w/heater)
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	2.64"×4.35"×6.83" (67mm×110.4mm×173.5mm)
Box Dimensions (L×W×H)	9.17"×6.58"×5.83" (233mm×167mm×148mm)
Unit Weight	1.37lbs. (0.62kg)
Shipping Weight	1.87lbs. (0.85kg)
Certifications and	Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001: 2008
a v.c 1em	

Certificate No.: 1CTL1406131359-EC; 2CTL1406131359-FC.

Ordering information

V6202IR-H0225A

V6202IR-H0225B

V6202IR-H0225B

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225C

V6202IR-H0225D

HD Megapixel IR IP camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 12VDC, 8mm fixed lens

V6202IR-H0225D

HD Megapixel IR IP camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 12VDC, 8mm fixed lens

V6202IR-H0225D

HD Megapixel IR IP camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, 12VDC, 12mm fixed lens

Note: The models mentioned above have no heaters. If needed, please add X to the end of the models .For example:

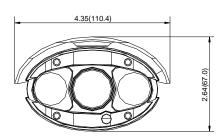
V6202IR-H0225AX HD Megapixel IR IP camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, w/ heater, 12VDC, 4mm fixed lens

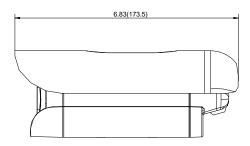
Optional Products

V1554-6 Camera mount, 6 inch high

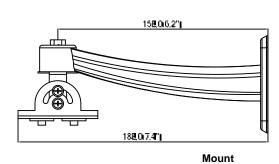
N3925-12D-1 Exterior power, 100~240VAC input, 12VDC output, 1.5A

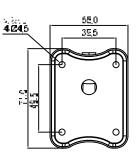
Dimensions





Camera





(Unit: inch, in the parentheses is mm)

V6812-T0 Series HD 1MP IP Minidome Camera

















- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- **Onvif Profile S**
- H.264 High profile/M-JPEG encoding
- Full-frame HD video output, with the resolution up to 1280×720@30fps
- High encoding efficiency, low data rate and high image
- Smooth videos and clear images of moving objects, free from ghost and smear
- **Provide WDR function**
- Supports storage with TF card
- Supports active video tampering
- Motion detection and privacy mask
- Bi-directional audio, G.711
- Supports alarm input and output
- PoE power supply
- **Surface, Bracket or Recessed Mount**
- 3-axis adjustment

V6812-T0 series HD 1MP IP minidome camera features 1/3" progressive scan CMOS sensor and built-in HD megapixel lens with the focal length of 2.8~12mm. With H.264 High profile/ M-JPEG compression format utilized, this camera can output HD full-frame videos with the resolution up to 1280×720@30fps.

V6812-T0 series IP minidome camera provides motion detection and privacy mask function which can protect certain private areas from being seen by operators. In addition, Power over Ethernet (PoE) greatly simplifies transmission cable.

Compact structure makes it easy to install. Also, this camera provides 3-axis adjustment, easy to adjust the monitoring angle.

V6812-T0 series IP minidome camera is suitable for financial institutions, telecommunications, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

Image Sensor 1/3" progressive scan CMOS Dynamic Range 83.5dB	
,	
C (N. D	
S/N Ratio 50dB	
Lens F1.4, f=2.8-12mm	
Angle of View (Horizontal) 92°~27.2°	
Camera Angle Adjustment X (Panning): 0°~360°; Y (Tilting): -75°~75°; Z (Rotating): 0°~360°	
Day/Night ICR Functionality	
Sensitivity Color mode: 0.5 lux @ F1.4 (30IRE, AGC B/W mode: 0.1 lux @ F1.4 (30IRE, AGC C	• • •
Exposure Scene Mode, Manual mode, Shutter prid	ority mode
Shutter Auto/Manual (1/25s~1/8000s)	
White Balance Auto/Manual/Incandescent light/ Cool v fluorescent light/Sun light/Cloudy/Natri	
Gain Control Auto/Manual	
Noise Reduction 3D	
Video H.264 High profile/M-JPEG Compression	
Maximum 1280×720@H.264/M-JPEG Resolution	
Optional Major stream: 1280×720, 1024×768, 80 Minor stream: 720×576, 720×480, 640× 352×288, 352×240	•
Maximum Frame Rate 30fps @1280×720	
Data Rate Variable bit rate; Constant bit rate: 256Kbps~10000Kbps	
Audio Compression: G.711-u; Audio 1 input (Linear level, Resistance: 1000 O 1 output (Linear level, Resistance: 600 C	•

Motion Detection	Up to 4 areas	
Privacy Mask	Up to 4 masks	
Local Recording	Available	
TF Card Storage	Available, up to 32G	
Upgrade Online	Available	
Password Protection	Available	
Network Port	1 RJ45 10/100M self-adaptive Ethernet port	
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S	
Alarm	1 alarm input, 1 relay output	
Power Supply	PoE IEEE 802.3af Class 2	
Power Consumption	<3W	
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)	
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)	
Operating Humidity	0~90% RH (non-condensing)	
Unit Dimensions (Hר)	3.88"×5.32" (98.5mm ×135mm)	
Box Dimensions	8.03"×7.48"×7.13"	
(L×W×H)	(204 mm×190 mm×181mm)	
Unit Weight	1.06lbs. (0.48kg)	
Shipping Weight	2.01lbs. (0.91kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024 ¹ , FCC: Part 15 Subpart B ² , UL 60950-1 ³ , ISO 9001:2008	
	2	

Certificate No.: 1EESZF01170017-1R1; 2EESZF01170017-2R1; 3E232008-A27-UL.

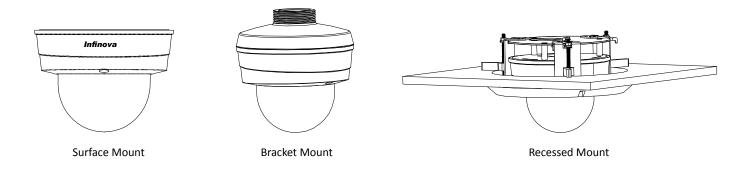
Ordering information

V6812-T0020SP HD Megapixel IP minidome camera, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, PoE, Surface mount, 2.8-12mm vari-focal lens

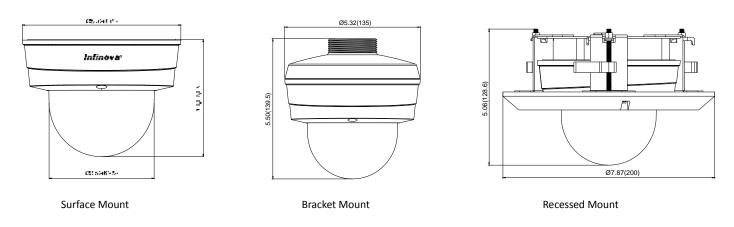
V6812-T0020PP HD Megapixel IP minidome camera, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, PoE, Bracket mount, 2.8-12mm vari-focal lens

V6812-T0020RP HD Megapixel IP minidome camera, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, PoE, Recessed ceiling mount, 2.8-12mm vari-focal lens.

Mounting



Dimensions



(Unit: inch, in the parentheses is mm)

V6822-T0 Series

HD 1MP and 2MP Vandal Resistant Low Light IP Minidome Camera





















- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- **Supports Digital WDR function**
- **Onvif Profile S**
- Sensitivity: 0.01 lux
- High-resolution image signal output: 1920×1080@30fps or 1280×720@30fps
- Small bandwidth occupancy and high image quality
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Smooth dynamic video replay
- Supports anti-reflection function
- Bi-directional audio, G.711
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports active video tampering
- **Local Recording**
- Supports storage with TF card
- 2 alarm inputs, 1 relay output
- Supports multiple ways to handle alarms, such as email sending, FTP upload and relay output
- Supports simultaneous multi-user access and parameter configuration via Web Server
- Compatible with Infinova's V2216, V2218 and other digital video management software
- Provides standard SDK, easily incorporated with digital surveillance systems from a different supplier
- Supports public access
- 3-axis adjustment
- With analog video debugging interface

V6822-T0 series HD megapixel low light IP minidome camera features 1/3" progressive scan CMOS sensor and built-in HD megapixel lens with the focal length of 3.0-9.0mm. With H.264 High profile/M-JPEG video compression format utilized, this series can output the real-time images with the resolution up to 1920×1080@30fps or 1280×720@30fps.

V6822-T0 series supports motion detection functions, which are able to link with alarm to store and snapshoot images. Privacy mask can protect certain private area from being seen by operator. Power over Ethernet (PoE) greatly simplifies transmission cable.

V6822-T0 series minidome camera is suitable for financial institutions, telecommunications, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

Image Sensor	1/3" progressive scan CMOS
Dynamic Range	72.4dB
Lens	F1.2, f=3.0-9.0mm
Camera Angle Adjustment	X (Panning): 0°~340°; Y (Tilting): 0°~80°; Z (Rotating): 0°~340°
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.05 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0.01 lux @ F1.2 (30IRE, AGC ON)
Exposure	Scene Mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/25s~1/8000s)
White Balance	Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
Gain Control	Auto/Manual
Noise Reduction	3D
Video Compression	H.264 High profile/M-JPEG
Maximum Resolution	V6822-T02: 1920×1080@H.264/M-JPEG; V6822-T00: 1280×720@H.264/M-JPEG
Optional Resolution	V6822-T02: Major stream: 1920×1080, 1280×1024, 1280×960, 1280×720, 1024×768, 800×600, Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240; V6822-T00: Major stream: 1280×720, 1024×768, 800×600, Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240
Maximum Frame Rate	V6822-T02: 30fps@1920×1080; V6822-T00: 30fps@1280×720
Data Rate	Variable bit rate; Constant bit rate: 256Kbps~10000Kbps
Audio	Audio Compression: G.711-u; 1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)

Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
Local Recording	Available
TF Card Storage	Available, up to 32G
Upgrade Online	Available
Password Protection	Available
Alarm	2 alarm inputs, 1 relay output
Network Port	One RJ45 10/100M self-adaptive Ethernet port
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S
Power Supply	PoE IEEE 802.3af Class 2/12VDC/24VAC
Power Consumption	<4W
Operating Temperature	14°F~122°F (-10°C~50°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Operating Humidity	0%-90% RH (non-condensing)
Unit Dimensions (Hר)	4.07"×⊕5.20" (103.3mm×⊕132mm)
Unit Weight	1.76lbs. (0.80kg)
Shipping Weight	2.31lbs. (1.05kg)
Impact Resistance	IK10
Certifications and Approval	
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 50130-4-2011 ¹ , FCC: Part 15 Subpart A ² , UL 60950-1 ³ ,

IK10: IEC62262⁴, ISO 9001:2008

Certificate No.: 1SET2013-00354; 2SET2013-00370; 3E232008-A29-UL;

⁴CTL1401100053-IK10.

Ordering information

V6822-T0220SF HD Megapixel IP minidome camera, Vandal-resistant,

3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG,

2.0 Mpx, PoE/12VDC/24VAC, Surface mount,

3.0-9.0mm vari-focal lens

V6822-T0020SF HD Megapixel IP minidome camera, Vandal-resistant,

3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG,

1.0 Mpx, PoE/12VDC/24VAC, Surface mount,

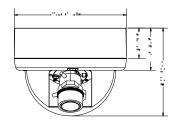
3.0-9.0mm vari-focal lens

ACCESSORIES

Power Supplies

Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-1 N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC N3928 Power Supply, 24VAC with 4, 8 or 16 Outputs

Dimensions







(Unit: inch, in the parentheses is mm)

V6822-TA Series



HD 1MP and 2MP Vandal Resistant Low Light IP Minidome Camera with Auto Focus





- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Motorized zoom lens for Auto Focus
- Supports WDR function
- Onvif Profile S
- Sensitivity: 0.01 lux
- High-resolution image signal output: 1920×1080@30fps or 1280×720@30fps
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Supports storage with TF card
- Bi-directional audio, G.711
- Motion detection, privacy mask, local recording
- Supports active video tampering
- 2 alarm inputs, 1 relay output
- Multiple ways to handle alarms
- Compatible with Infinova's V2216 network video management software, easily incorporated with other video surveillance software
- Provides standard SDK, easily incorporated with digital surveillance systems from a different supplier
- With analog video debugging interface
- Surface Mount, 3-axis adjustment
- Rugged design (IK10)

V6822-TA series HD 1MP and 2MP low light IP minidome camera features 1/3" progressive scan CMOS sensor and built-in 3.0-9.0mm motorized zoom lens. With H.264 High profile/M-JPEG video compression format utilized, this series can output the real-time images with the resolution up to 1920×1080@30fps or 1280×720@30fps.

With the built-in motorized zoom lens, the camera can focus clear in several seconds when click the target on the web page. Besides, the camera supports motion detection functions, which are able to link with alarm to store and snapshoot images. Privacy mask can protect certain private area from being seen by operator. Power over Ethernet (PoE) greatly simplifies transmission cable.

V6822-TA series minidome camera is suitable for financial institutions, telecommunications, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

Image Sensor	1/3" progressive scan CMOS
Dynamic Range	72.4dB
Lens	F1.2, f=3.0-9.0mm
Camera Angle Adjustment	X (Panning): 0°~340°; Y (Tilting): 0°~80°; Z (Rotating): 0°~340°
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.05 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0.01 lux @ F1.2 (30IRE, AGC ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/25s~1/8000s)
White Balance	Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
Gain Control	Auto/Manual
Noise Reduction	3D
Video Compression	H.264 High profile/M-JPEG
Maximum Resolution	V6822-TA2: 1920×1080@H.264/M-JPEG; V6822-TA0: 1280×720@H.264/M-JPEG
Optional Resolution	V6822-TA2: Major stream: 1920×1080, 1280×1024, 1280×960, 1280×720, 1024×768, 800×600, Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240; V6822-TA0: Major stream: 1280×720, 1024×768, 800×600, Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240
Maximum Frame Rate	V6822-TA2: 30fps@1920×1080; V6822-TA0: 30fps@1280×720
Data Rate	Variable bit rate; Constant bit rate: 256Kbps~10Mbps
Audio	Audio Compression: G.711-u; 1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)

Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
Network Delay	≤250ms
Local Recording	Available
TF Card Storage	Available, up to 32G
Upgrade Online	Available
Password Protection	Available
Alarm	2 alarm inputs, 1 relay output
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S
Power Supply	PoE IEEE 802.3af Class 2/12VDC/24VAC
Power Consumption	<5W
Operating Temperature	14°F~122°F (-10°C~50°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Operating Humidity	0%~90% RH (non-condensing)
Unit Dimensions (Hר)	4.07"×5.20" (103.3mm×132mm)
Unit Weight	1.76lbs. (0.80kg)
Shipping Weight	2.31lbs. (1.05kg)
Impact Resistance	IK10
Certifications	s and Approval
Product	IK10: IEC62262 ¹ , CE/EMC: EN 55022, EN 55024, EN
Certifications	61000-3-2, EN 61000-3-3 ² , FCC: PART 15 Subpart B
	Class B ³ , ISO 9001:2008

Certificate No.: 1 CTL1401100053-IK10; 2 CTL1405121017-EC, 3 CTL1405121017-FC

Ordering information

V6822-TA220SF HD 2.0 Megapixel IP minidome camera,

Vandal-resistant, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0Mpx, PoE/12VDC/24VAC, Surface mount, 3.0-9.0mm motorized zoom lens

V6822-TA020SF HD 1.0 Megapixel IP minidome camera,

Vandal-resistant, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 1.0Mpx, PoE/12VDC/24VAC, Surface mount, 3.0-9.0mm motorized zoom lens

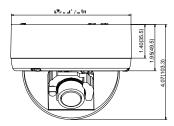
ACCESSORIES Power Supplies

 N3921-24A-1
 Power Supply, 24VAC, 20VA, Plug-In, 120VAC

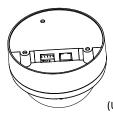
 N3921-24A-2
 Power Supply, 24VAC, 20VA, Plug-In, 230VAC

 N3928
 Power Supply, 24VAC with 4, 8 or 16 Outputs

Dimensions







(Unit: inch, in the parentheses is mm)

V6822-TA3 Series



HD 3MP Indoor Vandal Resistant Low Light IP Minidome Camera with Auto Focus





- 1/3" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- **Motorized zoom lens for Auxiliary Focus**
- **Supports WDR function**
- **Onvif Profile S**
- Sensitivity: 0.01 lux
- High-resolution image signal output: 2048×1536@20fps or 1920×1080@30fps
- Small bandwidth occupancy and high image quality Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Smooth dynamic video replay
- Supports anti-reflection function
- Bi-directional audio, G.711
- 2 alarm inputs, 1 relay output
- Supports multiple ways to trigger and handle alarms Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports active video tampering
- **Local Recording**
- Supports storage with TF card
- Supports simultaneous multi-user access and parameter configuration via Web Server
- Compatible with Infinova's V2216 and other digital video surveillance software,
- Provides standard SDK, easily integrated with other video surveillance software
- 3-axis adjustment
- With analog video debugging interface

Infinova's V6822-TA3 series HD 3MP low light IP minidome camera features 1/3" progressive scan CMOS sensor and built-in 3.0-9.0mm motorized zoom lens. With H.264 High profile/ M-JPEG video compression format utilized, this series can output the real-time images with the resolution up to 2048×1536@20fps or 1920×1080@30fps.

With the built-in HD motorized zoom lens, the camera can focus clear in several seconds when click the target on the web page. Besides, the camera supports motion detection functions, which are able to link with alarm to store and snapshoot images. Privacy mask can protect certain private area from being seen by operator. Power over Ethernet (PoE) greatly simplifies transmission cable.

V6822-TA3 series minidome camera is suitable for financial institutions, telecommunications, governments, schools, airports, factories, hotels, museums, city streets and other high-resolution surveillance applications.

Image Sensor	1/3" progressive scan CMOS
Dynamic	40 p. 68. coon c coan c co
Range	72.4dB
Lens	F1.2, f=3.0-9.0mm
	X (Panning): 0°~340°;
Camera Angle	Y (Tilting): 0°~80°;
Adjustment	Z (Rotating): 0°~340°
Day/Night	ICD
Functionality	ICR
Sensitivity	Color mode: 0.07 lux @ F1.2 (30IRE, AGC ON);
Schistivity	B/W mode: 0.01 lux @ F1.2 (30IRE, AGC ON)
Exposure	Scene mode, Manual mode, Shutter priority mode
Shutter	Auto/Manual (1/25s~1/8000s)
White	Auto/Manual/Incandescent light/Cool white
Balance	fluorescent light/Sun light/Cloudy/Natrium light
Gain Control	Auto/Manual
Noise	3D
Reduction	
Video	H.264 High profile/M-JPEG
Compression	
Maximum	2048×1536@ H.264/M-JPEG
Resolution	- ·
	H.264 Major stream: 2048×1536, 1920×1080,
Optional	1280×1024, 1280×960, 1280×720, 1024×768,
Resolution	800×600;
	H.264 Minor stream: 720×576, 720×480, 640×480,
Mayimum	352×288, 352×240
Maximum	20fps@2048×1536;
Frame Rate	30fps@1920×1080 Variable bit rate;
Data Rate	Constant bit rate: 256Kbps~10000Kbps
Network	Constant Sterate. 250hbp3 10000hbp3
Delay	≤250ms
_ 3.0.,	Audio Compression: G.711-u;
Audio	1 input (Linear level, Resistance: 1000 Ohm),
	1 output (Linear level, Resistance: 600 Ohm)
	,

Motion	Up to 4 areas
Detection	
Privacy Mask	Up to 4 masks
Local	Available
Recording	
TF Card Storage	Available, up to 32G
Upgrade Online	Available
Password Protection	Available
Alarm	2 alarm inputs, 1 relay output
Network Port	One RJ45 10/100M self-adaptive Ethernet port
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S
Power Supply	PoE IEEE 802.3af Class 2/12VDC/24VAC
Power Consumption	<5W
Operating Temperature	14°F~122°F (-10°C~+50°C)
Storage Temperature	-4°F~140°F (-20°C~+60°C)
Operating Humidity	0%~90% RH (non-condensing)
Unit Dimensions (Hר)	4.07"×5.20" (103.3mm×132mm)
Unit Weight	1.76lbs. (0.80kg)
Shipping Weight	2.31lbs. (1.05kg)
Certifications and Approval	
Product	CE/EMC: EN 55022, EN 55024, EN 61000-3-2,
Certifications	EN 61000-3-3 ¹ , FCC: PART 15 Subpart B Class B ² , UL 60950-1 ³ , ISO 9001:2008
	01 00000 1,100 0001.2000

Certificate No.: ¹CTL1405121017-EC, ²CTL1405121017-FC, ³E232008-A33-UL.

Ordering information

V6822-TA320SF HD 3.0 Megapixel IP minidome camera,

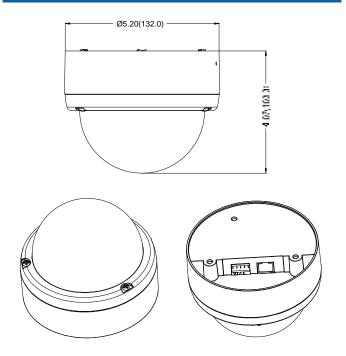
Vandal-resistant, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 3.0Mpx, PoE/12VDC/24VAC, Surface mount, 3.0-9.0mm motorized zoom lens

ACCESSORIES

Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC

Dimensions



(Unit: inch, in the parentheses is mm)

V6822IR-TA Series









- 1/3" low light progressive scan CMOS sensor IR-Cut Removable (ICR) Filter for Day/Night switching Motorized zoom lens for Auxiliary Focus High-performance IR illuminators, 20m illumination distance
- Smart-IR technology, no image overexposure or underexposure
- **Supports WDR function**
- **Onvif Profile S**
- High-resolution image signal output: 1920×1080@30fps
- Small bandwidth occupancy and high image quality
- With the maximum frame rate up to 30fps.
 Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- Smooth dynamic video replay Supports anti-reflection function
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Supports active video tampering
- **Local Recording**
- Supports storage with TF card Bi-directional audio, G.711

- 2 alarm inputs, 1 relay output
 Supports multiple ways to handle alarms, such as email sending, FTP upload and relay output
 Supports simultaneous multi-user access and parameter
- configuration via Web Server Compatible with Infinova's V2216 and other digital
- video surveillance software,
- Provides standard SDK, easily integrated with other video surveillance software

- Supports public access
 Surface Mount, 3-axis adjustment
 With analog video debugging interface

V6822IR-TA series HD 2MP IR IP minidome camera features 1/3" progressive scan CMOS sensor and built-in 3.0-9.0mm motorized zoom lens. With H.264 High profile/M-JPEG video compression format utilized, this series can output real-time images with the resolution up to 1920×1080@30fps. The camera supports three simultaneous video streams. It features bi-directional audio with G.711 compression.

With the built-in motorized zoom lens, the camera can focus clear in several seconds when click the target on the web page. Low power consumption and a unique light control technology ensure a long IR illuminator service life. With Smart-IR technology, the camera effectively avoids the image overexposed and underexposed, and ensures natural color and more details.

V6822IR-TA series minidome camera is the ideal choice for high-resolution surveillance under challenging lighting environments, including governments, financial institutions, telecommunications, schools, airports, factories, hotels, museums and city streets.

1/3" progressive scan CMOS
72.4dB
F1.2, f=3.0-9.0mm
X (Panning): 0°~340°; Y (Tilting): 0°~72°; Z (Rotating): 0°~340°
850nm
20m
ICR
Color mode: 0.05 lux @ F1.2 (30IRE, AGC ON); B/W mode: 0 lux @ F1.2 (IR ON)
Scene mode, Manual mode, Shutter priority mode
Auto/Manual (1/25s~1/8000s)
Auto/Manual/Incandescent light/Cool white fluorescent light/Sun light/Cloudy/Natrium light
Auto/Manual
3D
H.264 High profile / M-JPEG
1920×1080@H.264/M-JPEG
Major stream: 1920×1080, 1280×1024, 1280×960, 1280×720, 1024×768, 800×600; Minor stream: 720×576, 720×480, 640×480, 352×288, 352×240
30fps@1920×1080
Variable bit rate; Constant bit rate: 256Kbps ~ 10000Kbps
Audio Compression: G.711-u; 1 input (Linear level, Resistance: 1000 Ohm), 1 output (Linear level, Resistance: 600 Ohm)

Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
Network Delay	≤250ms
Local Recording	Available
TF Card Storage	Available, up to 32G
Upgrade Online	Available
Password Protection	Available
Alarm	2 alarm inputs, 1 relay output
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Applicable Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, UPNP, DDNS, Profile S
Power Supply	PoE IEEE 802.3af Class 3/12VDC/24VAC
Power Consumption	<9W
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	4.07"×5.20" (103.3mm×132mm)
Unit Weight	1.87 lbs. (0.85kg)
Shipping Weight	2.54 lbs. (1.15kg)
Impact Resistance	IK10
Certifications and Approval	
Product Certifications	IK10: IEC62262 ¹ , CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ² , FCC: PART 15 Subpart B Class B ³ , UL 60950-1 ⁴ , ISO 9001:2008
	2

 $Certificate \ No.: \ ^1CTL1401100053-IK10, \ ^2CTL1401100051-EC, \ ^3CTL1401100051-FC, \ ^4E232008-A33-UL.$

Ordering information

V6822IR-TA220SF HD 2

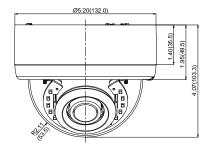
HD 2.0 Megapixel IR IP minidome camera, Vandal-resistant, 3-axis, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, 2.0 Mpx, 20m IR range, PoE/12VDC/24VAC, Surface mount, 3.0-9.0mm motorized zoom lens ACCESSORIES Power Supplies

 N3921-24A-1
 Power Supply, 24VAC, 20VA, Plug-In, 120VAC

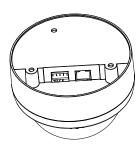
 N3921-24A-2
 Power Supply, 24VAC, 20VA, Plug-In, 230VAC

 N3928
 Power Supply, 24VAC with 4, 8 or 16 Outputs

Dimensions







(Unit: inch, in the parentheses is mm)

V6812IR-H00 & V6812IR-H01 Series HD 1MP and 1.3MP IR IP Minidome Camera







- 1/3" progressive scan CMOS sensor
- Built-in dot matrix IR illuminators, at 850nm wavelength, up to 20 meters night vision distance
- The illuminator output rate can be automatically adjusted according to the lighting condition
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- With resolution up to 960P or 720P
- Smooth videos, with the frame rate up to 30fps
- Support Horizontal/Vertical Mirror
- Support corridor mode
- Support WDR function
- **Backlight Compensation**
- Local Recording
 Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Support video mask alarm
- Alarms triggered by motion detection link with email sending and FTP upload
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with Infinova V2216 and other digital video surveillance software
- Standard SDK is provided for easy integration with other systems
- **Onvif Profile S**
- Compact structure for surface mount, 3-axis adjustment
- Support analog video output
- 12VDC power supply
- IP55 environmental rating

V6812IR-H00 & V6812IR-H01 series HD 1MP and 1.3 MP IR IP minidome camera features 1/3" progressive scan CMOS sensor and built-in 3.0 megapixel fixed lens (2.8mm/4mm/6mm/8mm/12mm optional). With H.264/M-JPEG compression format utilized, this camera can output HD full-frame videos with the resolution of 960P or 720P. The built-in dot matrix IR illuminators allow a maximum of 20 meters night vision distance (the distance will be different for different lenses). It's a perfect solution for a 24x7 around-the-clock surveillance.

The camera supports the function of strengthening ROI encoding, so as to improve the image quality of key areas under low-band network environment.

The camera supports three simultaneous video streams. It also provides motion detection, privacy mask, video mask alarm, image snapshot, local recording, noise deduction, backlight compensation and WDR functions. Alarm can be associated with email sending and FTP upload.

Compact structure makes it easy to install. Also, this camera provides 3-axis adjustment, easy to adjust the monitoring angle.

V6812IR-H00 & V6812IR-H01 series is widely used in normal buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots and other high-resolution surveillance applications.

Image Sensors	1/3" progressive scan CMOS
Dynamic Range	72.4dB
S/N Ratio	50dB
	F1.6, f=4mm, 6mm, 8mm, 12mm (For
Lens	V6812IR-H00&-H01 series)
	F1.8, f=2.8mm(For V6812IR-H00 series)
Night Vision Distance	20m (Max)
Camera Angle	X (Panning): 0°~360°;
Adjustment	Y (Tilting): -75°~75°;
	Z (Rotating): 0°~360°
Day/Night Functionality	ICR
Sensitivity	Olux(IR on)
Exposure	Scene mode, manual mode, shutter priority mode
Shutter	Auto/Manual (1/30s~1/8000s)
White Balance	Auto/Manual/Incandescent light/ Cool white fluorescent light/Sun light/Cloudy/Natrium light
WDR	Available
Gain Control	Auto/Manual (maximum: 64X)
Noise Reduction	3D
Mirror	Horizontal/Vertical
Corridor Mode	Available
Image Effect	Brightness, sharpness, hue, contrast, saturation adjustable
Video Compression	H.264 main profile/M-JPEG
Maximum	V6812IR-H00: 1280×720@H.264/M-JPEG
Resolution	V6812IR-H01: 1280×960@H.264/M-JPEG
	V6812IR-H00:
	Major stream: 1280×720
Optional	Minor stream: 640×480, 320×240
Resolution	V6812IR-H01:
	Major stream: 1280×960, 1280×720
Maximum Frame	Minor stream: 640×480, 320×240
Rate	V6812IR-H00: 30fps@1280×720 V6812IR-H01: 30fps@1280×960
acc	Variable bit rate;
	Constant bit rate:
Data Rate	Major stream: 256Kbps~10000Kbps;
	Minor stream: 256Kbps~2000Kbps

Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
ROI	Up to 4 regions
Network Delay	≤180ms
Local Recording	Available
Upgrade Online	Available
Password Protection	Available
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Analog Video Output	Available via BNC port
Network Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, Qos, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Power Supply	12VDC
Power Consumption	<5W
Operating Temperature	-4° F ~ 122° F (-20° C ~ 50° C)
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	3.34"×⊕4.71" (84.7mm×⊕119.5mm)
Box Dimensions (L×W×H)	6.65 "×6.65 "×5.79" (169mm×169mm×147mm)
Unit Weight	1.43lbs. (0.65kg)
Shipping Weight	1.83lbs. (0.83kg)
Certifications and Approval	
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001: 2008

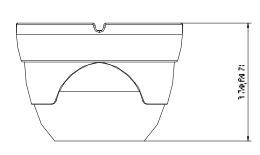
Certificate No.: ¹CTL1404150730-EC; ²CTL1404150730-FC.

Ordering information

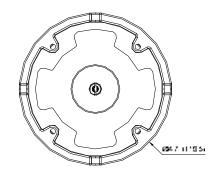
V6812IR-H0065SA	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.0Mpx, 12VDC, Surface mount, 4mm fixed lens
V6812IR-H0065SB	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.0Mpx, 12VDC, Surface mount, 6mm fixed lens
V6812IR-H0065SC	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.0Mpx, 12VDC, Surface mount, 8mm fixed lens
V6812IR-H0065SD	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.0Mpx, 12VDC, Surface mount, 12mm fixed lens
V6812IR-H0065ST	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.0Mpx, 12VDC, Surface mount, 2.8mm fixed lens
V6812IR-H0165SA	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.3Mpx, 12VDC, Surface mount, 4mm fixed lens
V6812IR-H0165SB	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.3Mpx, 12VDC, Surface mount, 6mm fixed lens
V6812IR-H0165SC	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.3Mpx, 12VDC, Surface mount, 8mm fixed lens
V6812IR-H0165SD	HD Megapixel IR IP minidome camera, Day/night, 1/3 inch CMOS sensor, H.264/M-JPEG, indoor, 1.3Mpx, 12VDC, Surface mount, 12mm fixed lens

Dimensions

Optional Product N3925-12D-1



Exterior power, 100~240VAC input, 12VDC output, 1.5A



(Unit: inch, in the parentheses is mm)

V6812IR-H02 Series HD 2MP IR IP Minidome Camera





















- 1/2.8" progressive scan CMOS sensor
- Built-in dot matrix IR illuminators, at 850nm wavelength, up to 20 meters night vision distance
- The illuminator output rate can be automatically adjusted according to the lighting condition
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Three Simultaneous Video Streams: Dual H.264 & Scalable M-JPEG
- With resolution up to 1080P
- Smooth videos, with the frame rate up to 30fps
- Support Horizontal/Vertical Mirror
- Support Corridor mode
- Support WDR function
- Backlight Compensation
- Local Recording
- Up to four ROI (Region of Interest) areas
- Up to four definable motion detection areas
- Up to four definable privacy mask areas
- Support video mask alarm
- Alarms triggered by motion detection link with email sending and FTP upload
- Support simultaneous access and parameter setting via Web Server from multiple clients
- Compatible or able to integrate with Infinova V2216 and other digital video surveillance software
- Standard SDK is provided for easy integration with other systems
- Onvif Profile S
- Compact structure for surface mount, 3-axis adjustment
- Support analog video output
- 12VDC power supply
- IP55 environmental rating

V6812IR-H02 series HD 2MP IR IP minidome camera features 1/2.8" progressive scan CMOS sensor and built-in 3.0 megapixel fixed lens (4mm/6mm/8mm/12mm optional). With H.264/M-JPEG compression format utilized, this camera can output HD full-frame videos with the resolution up to 1080P. The built-in dot matrix IR illuminators allow a maximum of 20 meters night vision distance (the distance will be different for different lenses). The output power of the illuminator can be automatically adjusted according to the lighting condition, thus the IR illuminators will be free of full-load operation. This also lowers the overall power consumption and prolongs the lifespan of the device.

The camera supports the function of strengthening ROI encoding, so as to improve the image quality of key areas under low-band network environment.

The camera supports three simultaneous video streams. It also provides motion detection, privacy mask, video mask alarm, image snapshot, local recording, noise deduction, backlight compensation and WDR functions. Alarm can be associated with email sending and FTP upload.

Compact structure makes it easy to install. Also, this camera provides 3-axis adjustment, easy to adjust the monitoring angle.

V6812IR-H02 series is widely used in normal buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots and other high-resolution surveillance applications.

Image Sensor	1/2.8" progressive scan CMOS
S/N Ratio	50dB
Dynamic Range	72dB
Lens	F1.6, f=4mm, 6mm, 8mm, 12mm
Night Vision Distance	20m (Max)
Camera Angle Adjustment	X (Panning): 0°~360°; Y (Tilting): -75°~75°; Z (Rotating): 0°~360°
Day/Night Functionality	ICR
Sensitivity	Olux(IR on)
Exposure	Scene mode, manual mode, shutter priority mode
Shutter	Auto/Manual (1/30s~1/8000s)
White Balance	Auto/Manual/Incandescent light/ Cool white fluorescent light/Sun light/Cloudy/Natrium light
WDR	Available
Gain Control	Auto/Manual (maximum: 64X)
Noise Reduction	3D
Mirror	Horizontal/Vertical
Corridor Mode	Available
Image Effect	Brightness, sharpness, hue, contrast, saturation adjustable
Video Compression	H.264 main profile/M-JPEG
Maximum Resolution	1920×1080@H.264/M-JPEG
Optional Resolution	Major stream: 1920×1080, 1280×960, 1280×720 Minor stream: 640×480, 320×240
Maximum Frame Rate	30fps@1920×1080
Data Rate	Variable bit rate; Constant bit rate: Major stream: 256Kbps~10000Kbps; Minor stream: 256Kbps~2000Kbps

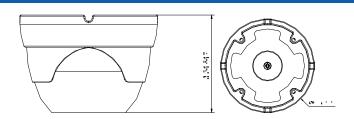
Motion Detection	Up to 4 areas
Privacy Mask	Up to 4 masks
ROI	Up to 4 regions
Network Delay	≤180ms
Local Recording	Available
Upgrade Online	Available
Password Protection	Available
Network Port	1 RJ45 10/100M self-adaptive Ethernet port
Analog Video Output	Available via BNC port
Network Protocols	IPv4, IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, Qos, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Power Supply	12VDC
Power Consumption	<5W
Operating Temperature	-4° F ~ 122° F (-20° C ~ 50° C)
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	3.34"×⊕4.71" (84.7mm×⊕119.5mm)
Box Dimensions (L×W×H)	6.65 "×6.65 "×5.79" (169mm×169mm×147mm)
Unit Weight	1.43lbs. (0.65kg)
Shipping Weight	1.83lbs. (0.83kg)
Certifications and	Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001: 2008

Certificate No.: 1CTL1406131358-EC; 2CTL1406131358-FC.

Ordering information

V6812IR-H0265SA HD Megapixel IR IP minidome camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, indoor, 2.0Mpx, 12VDC, Surface mount, 4mm fixed lens
 V6812IR-H0265SB HD Megapixel IR IP minidome camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, indoor, 2.0Mpx, 12VDC, Surface mount, 6mm fixed lens
 V6812IR-H0265SC HD Megapixel IR IP minidome camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, indoor, 2.0Mpx, 12VDC, Surface mount, 8mm fixed lens
 V6812IR-H0265SD HD Megapixel IR IP minidome camera, Day/night, 1/2.8 inch CMOS sensor, H.264/M-JPEG, indoor, 2.0Mpx, 12VDC, Surface mount, 12mm fixed lens
 Optional Product
 N3925-12D-1 Exterior power, 100~240VAC input, 12VDC output, 1.5A

Dimensions



(Unit: inch, in the parentheses is mm)

V1700N-T Series





















- Support H.264 & M-JPEG dual-stream encoding, three simultaneous video streams
- Maximum resolution up to D1
- Smooth dynamic video
- Onvif Profile S
- Remote PTZ Control via network
- RS-485 control and analog video output for easy adjustment
- Support area zoom, image PTZ function
- Support dome title settings and display
- Multiple white balance modes
- Support image overlapping
- Local recording
- SD card storage
- Support preset, pattern, autoscan, autopan, time tour, normal tour and power-on return
- 255 presets; accurate positioning with rotation speed up to 300%
- Support privacy mask and motion detection
- 2 alarm inputs and 1 relay output
- Two-way audio, G.711
- Support remote upgrade
- Standard SDK, easily to be integrated with other digital systems
- Outdoor IP66 rating, with built-in heater and air cycle system and freeze-proof

V1700N-T series PTZ domes provide the ability to view and control H.264/M-JPEG dual-stream encoded HD video, and also support three video streams. It delivers high-quality live video and image with frame rate of 30fps and resolution of D1.

The dome adopts high-performance zoom camera module with functions of auto iris, auto white balance and auto gain control, etc. The optical zoom range is 23X 28X and 36X, and it also supports 12X digital zoom. The preset speed is up to 300%. Accurate motor is adopted for acute response, smooth operation and less noise.

The user-friendly GUI interface is designed for easy PTZ control and convenient camera parameter settings. Thus, it makes easier to set the PTZ and perform operations with a mouse than traditional keyboard. In addition, area zoom and image PTZ are also offered.

Infinova's V1700N-T series domes also provide functions such as preset, pattern, autopan, autoscan, timed tour and normal tour, etc.

recinical specific			
Models		Pan/Tilt Functions	
V1700N-23TH, V1700N-28TS, V1700N-36TH		Programmable Presets	1~255
Lens	170011 30111	Programmable Patterns	4
23X, 28X, 36X		Programmable AutoPans	4
	23TH: F1.6~F3.7; f=3.6~82.8mm		6 groups (each tour can be associated
Aperture/ Focal Length	28TS: F1.35~F3.7; f=3.5~98mm	Normal Tours	with 14 actions, including Preset 1~32,
Total Length	36TH: F1.4~ F4.2; f=3.3~119mm		Pattern 1~4, and AutoPan 1~4)
	23TH: 54° (Wide) ~2.5° (Tele)	Home Return	Available
Angle of View	28TS: 55.8° (Wide) ~2.1° (Tele)	Timed Tours	Available
	36TH: 60.2° (Wide) ~1.8° (Tele)	Auto Scan	Available
Min. Work Distance	23TH: 0.01m (Wide) ~ 1.0m (Tele) 28TS: 0.01m (Wide) ~ 1.5m (Tele)	Motion Detection	4 areas
Willi. WOLK Distance	36TH: 0.01m (Wide) ~ 1.5m (Tele)	Privacy Mask Alarm	4 areas
Zoom Movement Speed	Less than 7 sec (23TH, 36TH)	Area Zoom	2 alarm inputs, 1 relay output Available
Aperture Correction	Horizontal and vertical (23TH, 36TH)	Web Server	Available
Camera		Upgrade Online	Available
Video Type	PAL/NTSC (D/N)	Video	, wantable
Scanning System	2:1 interlace scanning	Compression	H.264/M-JPEG
Image Sensor	23TH/36TH: 1/4" progressive scanning CCD	Max. Resolution	D1 @ H.264/M-JPEG
mage Sensor	28TS: 1/4" interlace scanning CCD		Major stream:
	Color mode (w/ICR):		PAL: D1 (720×576) / 4CIF (704 × 576) NTSC: D1 (720×480) / 4CIF (704 × 480)
	1 lux (NTSC: 1/60s, PAL: 1/50s);	Ontional Desclution	Minor stream:
Sensitivity (23TH)	0.1 lux (NTSC: 1/4s, PAL: 1/3s); 0.05 lux (NTSC: 1/2s, PAL: 1/1.5s)	Optional Resolution	PAL: D1 (720×576) / 4CIF (704 × 576) / 2CIF (704
	B/W mode: (w/o ICR):		× 288) / CIF (352 × 288) / QCIF (176 × 144) NTSC: D1 (720×480) / 4CIF (704 × 480) / 2CIF
	0.01 lux (NTSC: 1/4s, PAL: 1/3s)		(704 × 240) / CIF (352 × 240) / QCIF (176 × 120)
	Color mode (w/ICR):	Data Rate	Variable bit rate
	0.25 lux (F1.35, 50IRE) (typical);		Constant bit rate: 256Kbps ~ 10Mbps PAL: 25fps; NTSC: 30fps
Sensitivity (28TS)	0.16 lux (NTSC: 1/4s, PAL: 1/3s) (typical)	Max. Frame Rate Network Delay	<300ms
	B/W mode: (w/o ICR):	RS485	\3001115
	0.0015 lux (NTSC: 1/4s, PAL: 1/3s)	Communication Protocol	INFINOVA, PELCO-P/D
	Color mode (w/ICR): 1.0 lux (NTSC: 1/60s, PAL: 1/50s)	Soft Address	1~255
Sensitivity (36TH)	0.1 lux (NTSC: 1/00s, PAL: 1/30s)	Baud Rate	2400/4800/9600bps optional
Schisterity (Soffi)	B/W mode: (w/o ICR):	Audio	
	0.01 lux (NTSC: 1/4s, PAL: 1/3s)	Compression	G.711
S/N Ratio	>50dB	Port	1 input, linear level, impedance: $1k\Omega$; 1 output, linear level, impedance: 600Ω
Effective Pixels (H × V)	PAL/440K: 752×582;	IP	1 output, linear level, impedance. 00032
Effective Fixels (FFF V)	NTSC/380K: 768×494	Network Port	1 RJ-45 10M/100M self-adaptive Ethernet Port
Hariaardal Basalistian	23TH: 540TVL		IPv4, TCP, UDP, IGMP, DHCP, FTP, SNMP(v3),
Horizontal Resolution	28TS: 550TVL 36TH: 540TVL	Network Protocol	SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPOE, DNS, ARP, ICMP
Sync	30111. 3401 VL	Mechanical	552, 552.127, Q55, 1 1 52, 2 15, 7 111, 15.111
Sync System	Internal	Variable Speed	Pan: 0.1° ~ 250%; Tilt: 0.1° ~ 90%
Operational		Preset Speed	300%s (max.)
Iris	Auto, Manual, M/A	Rotation Angle Preset Accuracy	Pan: 360°; Tilt: 0° ~ 90° ±0.1°
Focus	Auto, Manual, M/A	Motor	Stepping motor
	23TH: Auto: default;	Electrical	
	Manual: PAL: 1/1.5~1/30000s;	Power Supply	24VAC/24VDC self-adaptive
	NTSC: 1/2~1/30000s	Power Consumption	24VAC: 20W (indoor); 35W (outdoor); 24VDC: 20W (indoor); 33W (outdoor)
Shutter	28TS: Auto: default; Manual: PAL: 1/1~1/10000s;	Surge Protection	Yes, ±2000V
Silutter	NTSC: 1/1~1/10000s	Environmental	
	36TH: Auto: default;	Operation Temperature	Indoor: -4°F ~ +122°F (-20°C ~ +50°C); Outdoor: -40°F ~ +122°F (-40°C ~ +50°C)
	Manual: PAL: 1/1.5~1/30000s;	Storage Temperature	-4°F ~ +140°F (-20°C ~ +60°C)
	NTSC: 1/2~1/30000s	Operation Humidity	0 ~ 90% RH (non-condensing)
MDD	23TH: OFF/AD WDR*/AD WDR/WDR*/WDR	Mounting	Bracket, Ceiling
WDR	28TS: /	Physical	Indoor bracket:
Stabilization	36TH: OFF/AD WDR*/AD WDR/WDR*/WDR ON/OFF(28TS, 36TH)		Indoor bracket: 11.5" × Φ8.6" (292mm × Φ218mm);
DSS	Available	Unit Dimensions (HxD)	Indoor ceiling:
555	23TH: AUTO/MANU/MERC/SODI	5 5 (17.6)	9.4" × Φ8.4" (240mm × Φ214mm); Outdoor bracket:
	28TS: AUTO/MANU/INDOOR/OUTDOOR/		11.5" × Φ9.4" (292mm × Φ240mm);
White Balance	OUTDOOR AUTO/SODI/ATW	Box Dimensions (LxWxH)	19.09" × 11.02" × 11.81"
	36TH: AUTO/MANU/MERC/SODI		(485mm × 280mm × 300mm)
BLC	ON/OFF	Material of Housing Material of Bubble	Cast aluminum alloy Clear polycarbonate
	23TH: OFF/Auto/Manual	Certifications and Appr	
Noise Reduction	28TS: ON/OFF	Product Certifications	CE ¹ , FCC ² , UL ³ , IK10, ISO 9001: 2008
100	36TH: OFF/Auto/Manual		, , ,
AGC Slow AE	Auto/Manual Available		
Others	Sharpness adjustable	Certificate No.: 1 CTL1404150731-EC; 2	CTL1404150731-FC; ³ E232008-A30-UL.
Gallera	onal pricos adjustable		

Ordering information

PTZ Dome Camera Part Numbering

Туре	Bubble	23X D/N	28X D/N	36X D/N
Indoor Ceiling Mount	Vandal-Resistant Clear	V1700N-23T0N3C3H	V1700N-28T0N3C3S	V1700N-36T0N3C3H
NTSC Camera	Vandal-Resistant Smoked	V1700N-23T0N4C3H	V1700N-28T0N4C3S	V1700N-36T0N4C3H
Indoor Ceiling Mount	Vandal-Resistant Clear	V1700N-23T1N3C3H	V1700N-28T1N3C3S	V1700N-36T1N3C3H
PAL Camera	Vandal-Resistant Smoked	V1700N-23T1N4C3H	V1700N-28T1N4C3S	V1700N-36T1N4C3H
Indoor Bracket Mount	Vandal-Resistant Clear	V1700N-23T0N3B3H	V1700N-28T0N3B3S	V1700N-36T0N3B3H
NTSC Camera	Vandal-Resistant Smoked	V1700N-23T0N4B3H	V1700N-28T0N4B3S	V1700N-36T0N4B3H
Indoor Bracket Mount	Vandal-Resistant Clear	V1700N-23T1N3B3H	V1700N-28T1N3B3S	V1700N-36T1N3B3H
PAL Camera	Vandal-Resistant Smoked	V1700N-23T1N4B3H	V1700N-28T1N4B3S	V1700N-36T1N4B3H
Outdoor Bracket Mount	Vandal-Resistant Clear	V1700N-23T0U3B3H	V1700N-28T0U3B3S	V1700N-36T0U3B3H
NTSC Camera	Vandal-Resistant Smoked	V1700N-23T0U4B3H	V1700N-28T0U4B3S	V1700N-36T0U4B3H
Outdoor Bracket Mount	Vandal-Resistant Clear	V1700N-23T1U3B3H	V1700N-28T1U3B3S	V1700N-36T1U3B3H
PAL Camera	Vandal-Resistant Smoked	V1700N-23T1U4B3H	V1700N-28T1U4B3S	V1700N-36T1U4B3H

Accessories

V1761	Wall Mount, 10 inch horizontal, 1.5 inch NPT
V1761L	Wall Mount, 17 inch horizontal, 1.5 inch NPT
V1762	Corner Mount, 10 inch horizontal, 1.5 inch NPT
V1763	Pole Mount, 10 inch horizontal, 1.5 inch NPT

V1764 Pendent Mount, 15 inch long vertical, 1.5 inch NPT, indoor

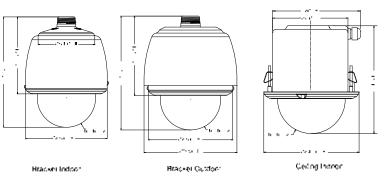
V1764A Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor side opening for wiring V1764B Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor top opening for wiring

V1765 Parapet Mount, 12 inch horizontal, vertical attachment, 1.5 inch NPT

V1765A Parapet Mount, V1765 horizontal attachment adapter

For detailed information, please refer to V1760 series indoor/outdoor dome mounts.

Dimensions



(Unit: inch, in the parentheses is mm)

Mounting













Wal Mounting

Corner Mousting

Pele Meurong

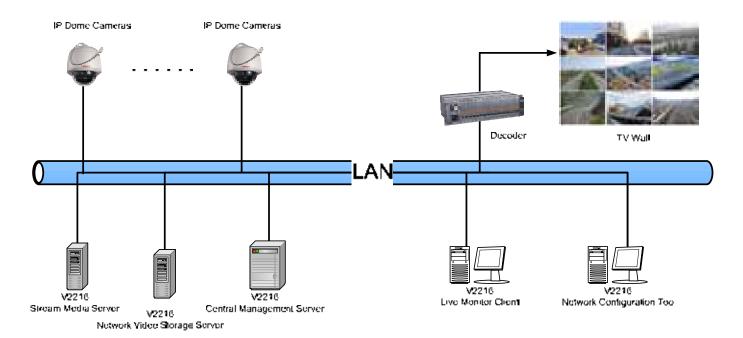
Overtoof Side Wall Mounting

lver tool barzecca Sudace Mounting

Pendant Meaning

Cering Mounting

System Application



V1720N-NE2 Series



IP PTZ Indoor Recessed Ceiling and Bracket Mount Dome Camera



















- H.264/M-JPEG dual stream encoding and three simultaneous video streams
- ONVIF-compliant
- Motion detection
- Multiple ways to handle alarms, such as sending an email, FTP uploading, audible warning and relay output
- Two-way audio and alarms
- Multi-user access and parameters configuration via Web Server
- 254 Programmable presets, with the maximum speed of 400%s, and precise positioning
- Advanced privacy mask function with 2 modes selectable
- Home return, preset linkage, pattern and auto scan
- Auto focus, backlight compensation, and auto gain control (AGC)
- High speed autopan and auto flip

V1720N-NE2 series IP PTZ dome camera is the newly released security product of Infinova.

With the technology of network video modules and the built-in H.264/M-JPEG kernel program, it can realize the high quality video transmission by 30 frames per second. And the feature of three simultaneous streams can help to select major stream or minor stream in transmission according to the applications. The dome camera can also make intelligent monitoring plan and storage strategies via the management platform.

The built-in web server support IE 6.0 or the greater versions. OSD display and WDR are also available. And the dome cameras can be controlled and managed by Infinova V2216 series software.

The dome features the optical zoom of 23X/28X/36X and the digital zoom of 12X. The control speed various from 0.08% to 400% with low noise and smooth running.

Lens	
Optical Zoom	23X, 28X, 36X
Aperture/ Focal Length	23X: F1.6~F3.7; f=3.6~82.8mm 28X: F1.35~F3.7; f=3.5~98mm 36X: F1.6~F4.5; f=3.4~122.4mm
Angle of View	23X: 54° (Wide)/2.5° (Tele) 28X: 55.8° (Wide)/2.1° (Tele) 36X: 57.8° (Wide)/1.7° (Tele)
Min. Work Distance	23X: 0.01m (Wide) ~ 1.0m (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele)
Camera	
Scanning System	2:1 Interlace Scanning
Image Sensor	23X: 1/4" Progressive Scan CCD 28X: 1/4" Interlace Scan CCD 36X: 1/4" Progressive Scan CCD
Sensitivity (23X)	Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s)
Sensitivity (28X)	Color mode: 0.56 lux @ F1.35 (50IRE) (Typical); 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s)
Sensitivity (36X)	Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s); 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s)
S/N Ratio	>50dB
Video	
Video Type	PAL/NTSC (D/N)
Analog Video Resolution	PAL/440K: 752 (H) × 582 (V) NTSC/380K: 768 (H) × 494 (V)
Horizontal Resolution	23X: 540TVL 28X: 550TVL 36X: 550TVL
Video Compression	H.264/M-JPEG
Maximum Resolution	4CIF @ H.264/M-JPEG
Optional Resolution (Major Stream)	PAL: 4CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240) / CIF(352×240) / QCIF(176×120)
Optional Resolution (Minor Stream)	PAL: CIF(352×288)/QCIF(176×144); NTSC: CIF(352×240)/QCIF(176×120)
Video Output	1.0±0.2Vp-p

Audio (Optiona	1)		
Audio Compression	G.711		
Audio port	1 input/1 output		
IP			
Communication Protocol	INFINOVA, PELCO-P/D (self-adaptive)		
Number of Addresses	1~254		
Baud Rate	2400/4800/9600bps optional		
Bit Rate	Variable bit rate; Constant bit rate: 256Kbps ~ 3Mbps		
Maximum Frame Rate	PAL: 25fps; NTSC: 30fps		
Network Port	1 RJ45 10M/100M self-adaptive Ethernet port		
Network Protocols	TCP/IP, HTTP, ICMP, IGMP, UDP, SMTP, RTP, RTSP, SNMP ARP etc.		
Operational			
Manual Pan Speed	0.08°~200°/s		
Manual Tilt Speed	0.2°~100%s		
Preset Speed	400°/s maximum		
Pan Travel	360° continuous		
Tilt Travel	-5°~90°		
Preset Accuracy	±0.1°		
Presets	254		
Patterns	4		
Autopans	4		
Programmable Areas	16		
Video Blanking Sectors	16		
Spherical Privacy	4 (23X)		
Zones Norm Tours	24 (28X/36X) 6		
Alarm (Optional)	2 alarm inputs, 2 relay outputs		
Zoom Window	Yes (PELCO-D)		
Motion Detection	Yes		
Home Return	Yes		
Auto Scan	Yes		
Image Mirror	Yes		
WDR	23X: OFF/WDR/AD WDR/WDR*/AD WDR* 28X: / 36X: OFF/DVER COMP/EXP RATIONAUTO		
Stabilization	Yes (28X/36X)		
FNR	23X: OFF/AUTO/MANU 28X: ON/OFF		
Digital Zoom	36X: ON/OFF 1~12X adjustable		
D L OOIII			

Technical specifications (continued)

DSS	Yes
Focus	AUTO / MANU / M/A
White Balance	23X: AUTO/MANU/MERC/SODI 28X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW 36X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW
Backlight Compensation	ON/OFF
Shutter Speed	Auto: Default Set; Manual: 23X: PAL: 1/1.5~1/30000s, NTSC: 1/2~1/30000s; 28X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s; 36X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s
Iris	M/A / AUTO / MANU
Mechanical	
Product Dimension (H×D)	Bracket: 11.5" \times Φ 8.6" (292mm \times Φ 218mm); Ceiling: 9.4" \times Φ 8.4" (240mm \times Φ 214mm)
Package Dimension (L×W×H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Product Weight	Bracket: 7.1lbs (3.2kg), Ceiling: 6.2lbs (2.8kg)
Shipping Weight	Bracket: 10.6lbs (4.8kg); Ceiling: 9.5lbs (4.3kg)

Motor	Stepping motor
Mounting	Bracket, Ceiling
Housing Material	Cast Aluminum
Sync	
Sync System	Internal/Line-locked
Electrical	
Power Supply	12VDC, 24VAC
Power Consumption	12VDC: 21W; 24VAC: 28W
Environmental	
Operating Temperature	14°F ~ 140°F (-10°C ~ +60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
Operating Humidity	0~90%RH (non-condensing)
Certifications a	nd Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part15 Subpart B ² ; ISO 9001:2008; IEC 61000; UL

Certificate No.: 1 BCT12HC-1420E; 2 BCT12HC-1421E.

Ordering information

PTZ Dome Camera Part Numbering

Туре	Bubble	23X D/N	28X D/N	36X D/N
Recessed Ceiling Mount	Vandal-Resistant Clear	V1727N-N0C3C6E2	V1728N-N0C3C6E2	V1723N-N0C3C6E2
NTSC Camera 24VAC	Vandal-Resistant Smoked	V1727N-N0S3C6E2	V1728N-N0S3C6E2	V1723N-N0S3C6E2
Recessed Ceiling Mount	Vandal-Resistant Clear	V1727N-N1C3C6E2	V1728N-N1C3C6E2	V1723N-N1C3C6E2
PAL Camera 24VAC	Vandal-Resistant Smoked	V1727N-N1S3C6E2	V1728N-N1S3C6E2	V1723N-N1S3C6E2
Pendant Mount	Vandal-Resistant Clear	V1727N-N0C3B6E2	V1728N-N0C3B6E2	V1723N-N0C3B6E2
NTSC Camera 24VAC	Vandal-Resistant Smoked	V1727N-N0S3B6E2	V1728N-N0S3B6E2	V1723N-N0S3B6E2
Pendant Mount	Vandal-Resistant Clear	V1727N-N1C3B6E2	V1728N-N1C3B6E2	V1723N-N1C3B6E2
PAL Camera 24VAC	Vandal-Resistant Smoked	V1727N-N1S3B6E2	V1728N-N1S3B6E2	V1723N-N1S3B6E2

Part Number Extensions for Power Input Selection

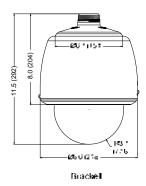
12VDC	EX: 12VDC Input	24VAC	EX: 24VAC Input
5	V1727N-N0C3B5E2	6	V1727N-N0C3B6E2

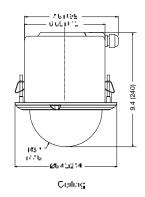
Accessories

V1761 Wall Mount, 10 inch horizontal, 1.5 inch NPT
V1761L Wall Mount, 17 inch horizontal, 1.5 inch NPT
V1762 Corner Mount, 10 inch horizontal, 1.5 inch NPT
V1763 Pole Mount, 10 inch horizontal, 1.5 inch NPT

V1764 Pendent Mount, 15 inch long vertical, 1.5 inch NPT, indoor For detailed information, please refer to V1760 series indoor/outdoor dome mounts.

Dimensions





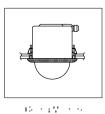
(Unit: inch, in the parentheses is mm)

Mounting



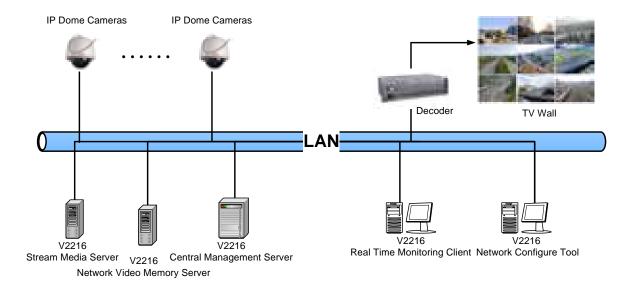








System Application



V1740N-NE2 Series IP PTZ Outdoor Bracket Mount Dome Camera























- H.264/M-JPEG dual stream encoding and three simultaneous video streams
- ONVIF-compliant
- Motion detection
- Multiple ways to handle alarms, such as sending an email, FTP uploading, audible warning and relay output
- Two-way audio and alarms
- Multi-user access and parameters configuration via Web
- 254 Programmable presets, with the maximum speed of 400%, and precise positioning
- Advanced privacy mask function with 2 modes selectable
- Home return, preset linkage, pattern and auto scan
- Auto focus, backlight compensation, and auto gain control (AGC)
- High speed autopan and auto flip
- IP 66 rating, with built-in heater and air cycle system, freeze proof

V1740N-NE2 series IP PTZ dome camera is the newly released security product of Infinova.

With the technology of network video modules and the built-in H.264/M-JPEG kernel program, it can realize the high quality video transmission by 30 frames per second. And the feature of three simultaneous streams can help to select major stream or minor stream in transmission according to the applications. The dome camera can also make intelligent monitoring plan and storage strategies via the management platform.

The built-in web server support IE 6.0 or the greater versions. OSD display and WDR are also available. And the dome cameras can be controlled and managed by Infinova V2216 series software.

The dome features the optical zoom of 23X/28X/36X and the digital zoom of 12X. The control speed various from 0.08% to 400% with low noise and smooth running.

Optical Zoom 23X, 28X, 36X Aperture	Long	
Aperture/ Focal Length 23X: F1.6*F3.7; f=3.5*98mm 28X: F1.6*F3.7; f=3.5*98mm 36X: F1.6*F4.5; f=3.4*122.4mm 23X: 54* (Wide)/2.5* (Tele) 23X: 54* (Wide)/2.1* (Tele) 36X: 57.8* (Wide)/2.1* (Tele) 36X: 57.8* (Wide)/2.1* (Tele) 36X: 57.8* (Wide)/2.1* (Tele) 36X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 14** progressive Scan CCD 28X: 14** progressive Scan CCD 28X: 14** progressive Scan CCD 36X: 14** progressi	Contical Zoom	22V 28V 26V
Aperture/ Focal Length 36X: F1.6~F4.5; f=3.4~122.4mm 36X: F1.6~F4.5; f=3.4~122.4mm 23X: 54" (Wide)]2.5" (Tele) 36X: 57.8" (Wide)]2.1" (Tele) 36X: 57.8" (Wide)]2.1" (Tele) 36X: 57.8" (Wide)]2.1" (Tele) 36X: 0.01m (Wide) ~ 1.5m (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele) 36X: 1/4" Progressive Scan CCD 36X	Optical Zoom	
Angle of View 36X: 55.8° (Wide)/L.1° (Tele) 36X: 57.8° (Wide)/L.7° (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide) 36X: 0.36 m (Wide) 36X: 0.		28X: F1.35~F3.7; f=3.5~98mm 36X: F1.6~F4.5; f=3.4~122.4mm
Min. Work Distance 23X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele) 23X: ¼⁴ " Progressive Scan CCD 28X: ¼⁴ " Progressive Scan CCD 36X: ¼⁴ " Progressive Scan CCD	Angle of View	28X: 55.8° (Wide)/2.1° (Tele)
Camera Scanning System 2:1 Interlace Scanning System 2:3X: 1/4" Progressive Scan CCD 28X: 1/4" Progressive Scan CCD 36X: 1/4" Progressive Scan CCD S6X: 1/4" Progressive Scan CCD Color Mode:		23X: 0.01m (Wide) ~ 1.0m (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele)
System 23X: 1/4" Progressive Scan CCD 28X: 1/4" Interlace Scan CCD 36X: 1/4" Progressive Sc	Camera	30/11 3/32 III (1/11/26)
23X: 1/4" Progressive Scan CCD 28X: 1/4" Interlace Scan CCD 28X: 1/4" Interlace Scan CCD 28X: 1/4" Progressive Scan CCD 28X: 1/4" Son, NTSC: 1/40s 200 Ille MET. 1.6 (30 IRE. ABL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. ABL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. ABL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s, NTSC: 1/4s) 200 Ille MET. 1.6 (30 IRE. PAL: 1/3s	-	2:1 Interlace Scanning
Image Sensor 28X: 1/4" Interlace Scan CCD 36X: 1/4" Progressive Scan CCD 36X: 1/4" Progressive Scan CCD 202 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/4s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) 0.09 lux (NTSC: 1/4s, PAL: 1/3s, NTSC: 1/4s) 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.06 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/6os); 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mo	System	
0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) Color mode: 0.56 lux @ F1.35 (50IRE) (Typical); 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s), NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s, NTSC: 1/4s, PAL: 1/3s, PAL: 1/3s, NTSC: 1/4s, PAL: 1/4s, PAL: 1/4s, PAL: 1/4s, PAL: 1/4s, PAL: 1/4s,	Image Sensor	28X: 1/4" Interlace Scan CCD 36X: 1/4" Progressive Scan CCD
0.56 lux @ F1.35 (50IRE) (Typical); 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s) Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) S/N Ratio Video Video Video Type PAL/NTSC (D/N) Analog Video Resolution PAL/440K: 752 (H) × 582 (V) NTSC/380K: 768 (H) × 494 (V) 23X: 540TVL 23X: 550TVL 36X: 550TVL Video Compression Maximum Resolution Actif @ H.264/M-JPEG Major stream: PAL: 4CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240) / CIF(352×240) / QCIF(176×120) Optional Resolution (Minor Stream) Video Output 1.0±0.2Vp-p Audio (Optional) Audio compression Audio port 1 input/1 output IP Communication Protocol Number of INFINOVA, PELCO-P/D (self-adaptive)	Sensitivity (23X)	0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6
0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s);	Sensitivity (28X)	0.56 lux @ F1.35 (50IRE) (Typical); 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s)
Video Video Type Analog Video Resolution Analog Video Resolution PAL/440K: 752 (H) × 582 (V) NTSC/380K: 768 (H) × 494 (V) 23X: 540TVL 28X: 550TVL 36X: 550TVL Video Compression Maximum Resolution Major stream: Optional Resolution PAL: 4CIF @ H.264/M-JPEG Major stream: PAL: 4CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240) / CIF(352×240) / QCIF(176×120) Optional Resolution (Minor Stream) PAL: CIF(352×288)/QCIF(176×120) Video Output 1.0±0.2Vp-p Audio (Optional) Audio Compression Audio port 1 input/1 output IP Communication Protocol Number of 1~254	Sensitivity (36X)	0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s); 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode:
Video Type Analog Video Resolution PAL/440K: 752 (H) × 582 (V) NTSC/380K: 768 (H) × 494 (V) 23X: 540TVL 28X: 550TVL 36X: 550TVL Video Compression Maximum Resolution Optional Resolution Audio (Optional) Audio port IP Communication Protocol Number of PAL/440K: 752 (H) × 582 (V) NTSC (D/N) NTSC (H) × 494 (V) 23X: 550TVL 428Y: 550TVL 428Y: 550TVL 428Y: 550TVL 428Y: 640F(704×288) 421F @ H.264/M-JPEG Major stream: PAL: 421F(704×576) / 221F(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 421F(704×480) / 221F(704×240) / CIF(352×240) / QCIF(176×120) PAL: CIF(352×288)/QCIF(176×120) Video Output 1.0±0.2Vp-p Audio (Optional) NFINOVA, PELCO-P/D (self-adaptive) Number of 1~254	S/N Ratio	>50dB
Analog Video Resolution Resolution Horizontal Resolution Video Compression Maximum Resolution Optional Resolution Optional Resolution Optional Resolution Major stream: Optional Resolution Optional Resolution Major Stream: Optional Resolution Major Stream: Optional Resolution (Major Stream) Optional Resolution (Minjor Stream) Optional Resolution (Minjor Stream) Optional Resolution (Mojor Stream) Optional Resolution (Mojor Stream) PAL: CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240) / CIF(352×240) / QCIF(176×120) Optional Resolution (Minor Stream) Video Output 1.0±0.2Vp-p Audio (Optional) Audio Compression Audio port 1 input/1 output IP Communication Protocol Number of 1~254	Video	
Resolution NTSC/380K: 768 (H) × 494 (V) Horizontal Resolution 23X: 540TVL Wideo Compression H.264/M-JPEG Maximum Resolution 4CIF @ H.264/M-JPEG Optional Resolution Major stream:	Video Type	PAL/NTSC (D/N)
Resolution 28X: 550TVL 36X: 550TVL		NTSC/380K: 768 (H) × 494 (V)
Video Compression Maximum Resolution ACIF @ H.264/M-JPEG Major stream: PAL: 4CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240) / CIF(352×240) / QCIF(176×120) Optional Resolution (Minor Stream) Video Output 1.0±0.2Vp-p Audio (Optional) Audio Compression Audio port I input/1 output IP Communication Protocol Number of 1~254		28X: 550TVL
ACIF @ H.264/M-JPEG		H.264/M-JPEG
Optional Resolution (Major Stream) Optional Resolution (Major Stream) Optional Resolution (Minor Stream) PAL: 4CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240) / CIF(352×240) / QCIF(176×120) PAL: CIF(352×288)/QCIF(176×144); NTSC: CIF(352×240)/QCIF(176×120) Video Output 1.0±0.2Vp-p Audio (Optional) Audio Compression Audio port 1 input/1 output IP Communication Protocol Number of 1~254		4CIF @ H.264/M-JPEG
Resolution (Minor Stream) Video Output 1.0±0.2Vp-p Audio (Optional) Audio Compression Audio port 1 input/1 output IP Communication Protocol Number of 1~254	Resolution	PAL: 4CIF(704×576) / 2CIF(704×288) / CIF(352×288) / QCIF(176×144); NTSC: 4CIF(704×480) / 2CIF(704×240)
Audio (Optional) Audio Compression G.711 Audio port 1 input/1 output IP Communication Protocol Number of 1~254	Resolution	
Audio Compression Audio port 1 input/1 output IP Communication Protocol Number of 1~254 G.711 Input/1 output (self-adaptive)	Video Output	1.0±0.2Vp-p
Compression Audio port 1 input/1 output IP Communication Protocol Number of 1~254	Audio (Option	al)
Communication Protocol Number of 1~254	Audio	
Communication Protocol Number of 1~254 INFINOVA, PELCO-P/D (self-adaptive)	Audio port	1 input/1 output
Protocol Number of 1~254	IP	
1~754	Protocol	INFINOVA, PELCO-P/D (self-adaptive)
		1~254

Baud Rate	2400/4800/9600bps optional			
Bit Rate	Variable bit rate; Constant bit rate: 256Kbps ~ 3Mbps			
Maximum Frame Rate	PAL: 25fps; NTSC: 30fps			
Network Port	1 RJ45 10M/100M self-adaptive Ethernet port			
Network Protocols Operational	TCP/IP, HTTP, ICMP, IGMP, UDP, SMTP, RTP, RTSP, SNMP ARP etc.			
Manual Pan				
Speed	0.08°~200°/s			
Manual Tilt Speed	0.2°~100°/s			
Preset Speed	400% maximum			
Pan Travel	360° continuous			
Tilt Travel	-5°~90°			
Preset Accuracy	±0.1°			
Presets	254			
Patterns	4			
Autopans	4			
Programmable Areas	16			
Video Blanking Sectors	16			
Spherical Privacy Zones	4 (23X) 24 (28X/36X)			
Norm Tours	6			
Alarm (Optional)	2 alarm inputs, 2 relay outputs			
Zoom Window	Yes (PELCO-D)			
Motion Detection	Yes			
Home Return	Yes			
Auto Scan	Yes			
Image Mirror	Yes			
WDR	23X: OFF/WDR/AD WDR/WDR*/AD WDR* 28X: / 36X: OFF/DVER COMP/EXP RATIONAUTO			
Stabilization	Yes (28X/36X)			
FNR	23X: OFF/AUTO/MANU 28X: ON/OFF 36X: ON/OFF			
Digital Zoom	1~12X adjustable			
DSS	Yes			
Focus	AUTO / MANU / M/A			
White Balance	23X: AUTO/MANU/MERC/SODI 28X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW 36X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW			
Backlight	ON/OFF			
Compensation	Auto: Default Set;			
Shutter Speed	Manual: 23X: PAL: 1/1.5~1/30000s, NTSC: 1/2~1/30000s; 28X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s; 36X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s			
Iris	M/A / AUTO / MANU			

Technical specifications (continued)

11.5" × Φ9.4" (292mm × Φ240mm)
19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
8.4lbs (3.8kg)
11.9lbs (5.4kg)
Stepping motor
Bracket
Cast Aluminum
Internal/Line-locked

Electrical			
Power Supply	12VDC, 24VAC		
Power Consumption	12VDC: 27W (with heater); 24VAC: 43W (with heater)		
Environmental			
Operating Temperature	-40°F ~ 140°F (-40°C ~ +60°C)		
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)		
Operating Humidity	0~90%RH (non-condensing)		
Rating	IP66		
Certifications and Approval			
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part15 Subpart B ² ; ISO 9001:2008; IEC 61000; UL		

Certificate No.: 1 BCT12HC-1420E; 2 BCT12HC-1421E.

Ordering information

PTZ Dome Camera Part Numbering

Туре	Bubble	23X D/N	28X D/N	36X D/N
Pendant Mount	Vandal-Resistant Clear	V1747N-N0C3B6E2	V1748N-N0C3B6E2	V1743N-N0C3B6E2
NTSC Camera 24VAC	Vandal-Resistant Smoked	V1747N-N0S3B6E2	V1748N-N0S3B6E2	V1743N-N0S3B6E2
Pendant Mount	Vandal-Resistant Clear	V1747N-N1C3B6E2	V1748N-N1C3B6E2	V1743N-N1C3B6E2
PAL Camera 24VAC	Vandal-Resistant Smoked	V1747N-N1S3B6E2	V1748N-N1S3B6E2	V1743N-N1S3B6E2

Part Number Extensions for Power Input Selection

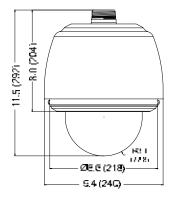
12VDC	EX: 12VDC Input	24VAC	EX: 24VAC Input
5	V1747N-N0C3B5E2	6	V1747N-N0C3B6E2

Accessories

V1761	Wall Mount, 10 inch horizontal, 1.5 inch NPT
V1761L	Wall Mount, 17 inch horizontal, 1.5 inch NPT
V1762	Corner Mount, 10 inch horizontal, 1.5 inch NPT
V1763	Pole Mount, 10 inch horizontal, 1.5 inch NPT
V1764A	Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor side opening for wiring
V1764B	Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor top opening for wiring
V1765	Parapet Mount, 12 inch horizontal, vertical attachment, 1.5 inch NPT
V1765A	Parapet Mount, V1765 horizontal attachment adapter

For detailed information, please refer to V1760 series indoor/outdoor dome mounts.

Dimensions



(Unit: inch, in the parentheses is mm)

Mounting













Wall Moduling

Comer Mounting

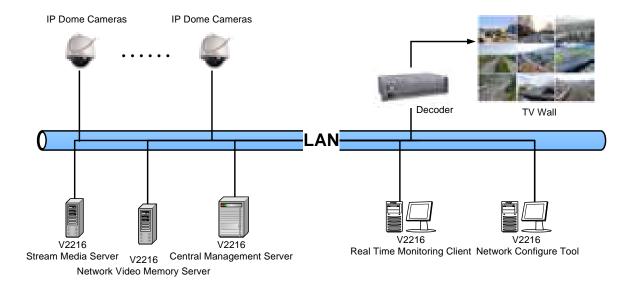
Pale Meuring

Pendant Mounting

Over roof 8 sia Wall Mauring

Over roof bor zootal. Surface Mounting

System Application



V1772N-T Series



HD 1MP and 2MP IP PTZ Recessed Ceiling and Bracket Mount Dome Camera























- Built-in 18X, 20X and 30X HD integrated camera modules
- Maximum resolution up to 1920×1080 @ 30fps or 1280×720 @ 30fps
- H.264 high profile & M-JPEG dual-stream encoding, three simultaneous video streams
- Two-way audio, G.711
- Remote PTZ Control via network
- Area zoom, image PTZ function
- Dome title settings and display
- Support image overlapping
- Multiple white balance modes
- Defog supported
- Preset, pattern, autoscan, autopan, time tour, normal tour and power-on return
- Privacy mask and motion detection
- 2 alarm inputs and 1 relay output
- Local recording
- SD card storage
- Compatible with digital video surveillance software like Infinova V2216 and Command
- Standard SDK, easily to be integrated with other digital systems
- Onvif Profile S
- RS-485 control and analog video output for easy adjustment
- Outdoor IP66 rating, with built-in heater and air cycle system and freeze-proof
- Remote upgrade via network
- Rugged design (IK10)

V1772N-T series HD 1MP and 2MP IP PTZ domes provide users a high-definition, high frame rate and high SNR real-time images acquisition system. V1772N-T series PTZ domes provide the ability to view and control H.264 High profile/M-JPEG dual-stream encoded HD video, and also support three video streams. The maximum resolution can be 1920×1080 @ 30fps or 1280×720 @ 30fps.

The dome support built-in 18X, 20Xand 30X HD integrated camera modules. The user-friendly GUI interface is designed for easy PTZ control and convenient camera parameter settings. Thus, it makes easier to set the PTZ and perform operations with a mouse than traditional keyboard. In addition, area zoom and image PTZ functions are also offered.

V1772N-T series domes also provide functions such as preset, pattern, autoscan and autopan etc.

Models				
V1772N-18TH, V1772N-20TH, V1772N-20TL, V1772N-20TT, V1772N-30TH, V1772N-30TS				
Lens	407 207 207			
Optical Zoom	18X, 20X, 30X			
Aperture/ Focal Length	18TH: F1.6~F2.8, f=4.7~84.6mm 20TH: F1.6~F3.5, f=4.7~94mm 20TL: F1.6~F3.5, f=4.7~94mm 20TT: F1.6~F3.5, f=4.7~94mm 30TH: F1.4~F4.6, f=4.4~132.0mm 30TS: F1.6~F4.7, f= 4.3~129mm			
Angle of View	18TH: 59.7° (Wide) ~ 3.6° (Tele) 20TH: 55.2° (Wide) ~ 2.9° (Tele) 20TL: 59.5° (Wide) ~ 3.2° (Tele) 20TT: 59.6° (Wide) ~ 3.2° (Tele) 30TH: 62.9° (Wide) ~ 2.2° (Tele) 30TS: 63.7° (Wide) ~ 2.3° (Tele)			
Min. Work Distance	18TH: 0.01m (Wide) ~ 1.0m (Tele) 20TH: 0.01m (Wide) ~ 1.0m (Tele) 20TL: 0.01m (Wide) ~ 1.0m (Tele) 20TT: 0.01m (Wide) ~ 1.0m (Tele) 30TH: 0.01m (Wide) ~ 1.5m (Tele) 30TS: 0.01m (Wide) ~ 1.2m (Tele)			
Camera				
Scanning System	Progressive scanning			
Image Sensor	18TH: 1/3" CCD 20TH: 1/2.8" CMOS 20TL: 1/2.8" CMOS 20TT: 1/2.8" CMOS 30TH: 1/3" CCD 30TS: 1/2.8" CMOS			
Sensitivity (18TH)	Color mode: 0.8 lux (1/30s, F1.6, 50%, AGC-Gain: 34dB) 0.1 lux (1/4s, F1.6, 50%, AGC-Gain: 34dB) B/W mode: 0.01 lux (1/4s, F1.6, 50%, AGC-Gain: 34dB)			
Sensitivity (20TH)	Color mode: 0.8 lux @ F1.6 (50IRE) B/W mode: 0.02 lux @ F1.6 (50IRE)			
Sensitivity (20TL)	Color mode: 0.04 lux @ F1.6 (AGC ON) B/W mode: 0.005 lux @ F1.6 (AGC ON)			
Sensitivity (20TT)	Color mode: 0.4 lux @ F1.6(1/30s, 350mV equiv., AGC-Gain: 48dB) 0.1 lux @ F1.6(1/8s, 350mV equiv., AGC-Gain: 48dB) B/W mode: 0.01 lux @ F1.6(1/8s, 350mV equiv., AGC-Gain: 48dB)			
Sensitivity (30TH)	Color mode: 0.5 lux (1/30s, F1.4 (wide), 50%, AGC-Gain: 35dB) 0.1 lux (1/4s, F1.4 (wide), 50%, AGC-Gain: 35dB) B/W mode: 0.005 lux (1/4s, F1.4 (wide), 50%, AGC-Gain: 35dB)			
Sensitivity (30TS)	Color mode: 0.35 lux (1/30 sec, 50%,(typical value) high sens mode ON) 1.4 lux (1/30 sec, 50%, high sens mode OFF) 0.05 lux (1/4 sec, 1/3 sec, 50%, high sens mode ON) 0.19 lux (1/4 sec, 1/3 sec, 50%, high sens mode OFF) B/W mode: 0.013 lux (1/30 sec, 50%, high sens mode ON) 0.05 lux (1/30 sec, 50%, high sens mode OFF) 0.002 lux (1/4 sec, 1/3 sec, 30%,high sens mode ON)			
S/N Ratio	>50dB			
Video				
Effective	1.0 Mpx. (18TH, 30TH)			
Resolution	2.0 Mpx. (20TH, 20TL, 20TT, 30TS)			
Video Compression	H.264 high profile/M-JPEG			
Maximum	1280×720 @ 30fps (18TH, 30TH)			
Resolution	1920×1080 @ 30fps (20TH, 20TL, 20TT, 30TS)			

Output Bit Rate	Variable bit rate;
Network Delay	Constant bit rate: 256Kbps~10000Kbps <300ms
Audio	
Audio	G.711
Compression	
Audio port	1 input, linear level, impedance: $1k\Omega$; 1 output, linear level, impedance: 600Ω
Storage	
Built-in Storage	With an embedded SD card slot, it is recommended to use an SD card up to 32G
IP	
Network Port	1*10M/100M Ethernet port, self-adaptive, RJ-45
Network Protocol	IPv4, TCP, UDP, IGMP, DHCP, FTP, SNMP(v3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP
Operational	
Manual Pan Speed	0.1° ~ 250%s
Manual Tilt Speed	0.1° ~ 90%s
Preset Speed	Max. 300%s
Pan Travel	360° continuous
Tilt Travel	0°~90°
Preset Accuracy	±0.1°
Presets	255
Patterns	4
Autopans	4
Tours	6 (each tour can be associated with 14 acts, including preset 1~32, pattern 1~4, autopan 1~4)
Home Return	Yes
Time Tour	Yes
Autoscan	Yes
Motion Detection	Yes, 4 areas
Alarm	2 alarm inputs, 1 relay output
Area Zoom	Yes
Web Server	Yes
Remote Upgrade	Yes
Iris	Auto, Manu, M/A
Focus	Auto, Manu, M/A
Shutter	18TH: Auto (1/30s~1/10000s, adjustable) 20TH: Auto (1/1.5s~1/30000s, adjustable) 20TL: Auto (1/15 ~ 1/10000s, adjustable) 20TT: Auto (1/1 ~ 1/30000s, adjustable) 30TH: Auto (1/1s~1/10000s, adjustable) 30TS: Auto (1/1s~1/10000s, adjustable)
Digital Slow	Yes (20TH, 20TL, 20TT, 30TH, 30TS)
Shutter	Off/H-mirror (18TH)
Image Mirror	Off/H-mirror/V-mirror/HV-mirror (20TH, 20TL, 20TT, 30TH, 30TS)
Image Freeze	Yes (20TH, 20TT, 30TH, 30TS)
FNR	18TH: / 20TH: Off/Manu/Auto (1~3 levels adjustable) 20TL: OFF/(1~7 levels adjustable) 20TT: Off/Manu/Auto (1~3 levels adjustable) 30TH: Off/Manu/Auto (1~3 levels adjustable) 30TS: Off/1~5 levels adjustable
White Balance	AUTO/MANU/MERC/SODI (18TH, 20TH, 20TT, 30TH); AUTO/MANU/INDOOR/OUTDOOR/ATW/OUTDOOR AUTO/SODI (20TL, 30TS)
Auto Gain Control	Yes
WDR	18TH: On/Off 20TH: Off/WDR/AD WDR/ WDR*/AD WDR* 20TL: On/Off 20TT: WDR*/AD WDR* 30TH: WDR*/AD WDR* 30TS: On/Off/Auto

Technical specifications (continued)

Stabilization	Yes (30TH)
Backlight Compensation	On/Off
Others	18TH: Sharpness adjustable; 20TH: Sharpness adjustable, slow AE; 20TL: Sharpness, contrast, brightness, saturation adjustable, slow AE, chroma suppress, edge color suppress; 20TT: Sharpness adjustable, slow AE, night vision 30TH: Sharpness adjustable, slow AE; 30TS: Sharpness adjustable, slow AE, high sens mode
Mechanical	
Product Dimension (H×D)	Indoor bracket: 11.5" × Φ8.6" (292mm × Φ218mm); Indoor ceiling: 9.4" × Φ8.4" (240mm × Φ214mm) Outdoor bracket: 11.5" × Φ9.4" (292mm × Φ240mm)
Package Dimension (L×W×H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Motor	Stepping motor
Mounting	Bracket, Ceiling
Housing Material	Cast Aluminum

Net Weight	Indoor bracket: 8.27lbs (3.75kg) Outdoor bracket: 9.83lbs (4.46kg) Indoor ceiling: 6.79lbs (3.08kg)		
Gross Weight	Indoor bracket: 11.35lbs (5.15kg) Outdoor bracket: 12.96lbs (5.88kg) Indoor ceiling: 9.88lbs (4.48kg)		
Sync			
Sync System	Internal		
Electrical			
Power Supply	24VAC/24VDC self-adaptive		
Power Consumption	24VAC: 20W (indoor); 35W (outdoor) 24VDC: 20W (indoor); 33W (outdoor)		
Surge Protection	Yes, ±2000V		
Environmental			
Operating Temperature	Indoor: -4°F ~ +122°F (-20°C ~ +50°C); Outdoor: -40°F ~ +122°F (-40°C ~ +50°C)		
Operating Humidity	0 ~ 90%RH (non-condensing)		
Rating	IP66		
Impact Resistance	IK10		
Certifications and Approval			
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3; FCC: Part15 Subpart B; ISO 9001:2008; UL ¹ ; IK10: IEC62262		

Certificate No.: 1 20131205-E232008.

Ordering information

PTZ Dome Camera Part Numbering

Туре	Bubble	V1772N-18TH	V1772N-20TH	V1772N-30TH	V1772N-30TS
Indoor Pendant	Vandal-Resistant Clear	V1772N-18T0N3B3H	V1772N-20T2N3B3H	V1772N-30T0N3B3H	V1772N-30T2N3B3S
Mount Camera	Vandal-Resistant Smoked	V1772N-18T0N4B3H	V1772N-20T2N4B3H	V1772N-30T0N4B3H	V1772N-30T2N4B3S
Outdoor Pendant Mount Camera	Vandal-Resistant Clear	V1772N-18T0U3B3H	V1772N-20T2U3B3H	V1772N-30T0U3B3H	V1772N-30T2U3B3S
	Vandal-Resistant Smoked	V1772N-18T0U4B3H	V1772N-20T2U4B3H	V1772N-30T0U4B3H	V1772N-30T2U4B3S
Indoor Recessed Ceiling Mount	Vandal-Resistant Clear	V1772N-18T0N3C3H	V1772N-20T2N3C3H	V1772N-30T0N3C3H	V1772N-30T2N3C3S
Camera	Vandal-Resistant Smoked	V1772N-18T0N4C3H	V1772N-20T2N4C3H	V1772N-30T0N4C3H	V1772N-30T2N4C3S

Type	Bubble	V1772N-20TL	V1772N-20TT
Indoor Pendant	Vandal-Resistant Clear	V1772N-20T2N3B3L	V1772N-20T2N3B3T
Mount Camera	Vandal-Resistant Smoked	V1772N-20T2N4B3L	V1772N-20T2N4B3T
Outdoor Pendant	Vandal-Resistant Clear	V1772N-20T2U3B3L	V1772N-20T2U3B3T
Mount Camera	Vandal-Resistant Smoked	V1772N-20T2U4B3L	V1772N-20T2U4B3T
Indoor Recessed	Vandal-Resistant Clear	V1772N-20T2N3C3L	V1772N-20T2N3C3T
Ceiling Mount Camera	Vandal-Resistant Smoked	V1772N-20T2N4C3L	V1772N-20T2N4C3T

Part Number Extensions for Power Input Selection

24 VAC / 24 VDC	EX: 24 VAC / 24 VDC Input	PoE	EX: PoE Input
3	V1772N-30T2N3B3S	0	V1772N-30T2N3B0S

Accessories

Wall Mount, 10 inch horizontal, 1.5 inch NPT
Wall Mount, 17 inch horizontal, 1.5 inch NPT
Corner Mount, 10 inch horizontal, 1.5 inch NPT
Pole Mount, 10 inch horizontal, 1.5 inch NPT

V1764 Pendent Mount, 15 inch long vertical, 1.5 inch NPT, indoor

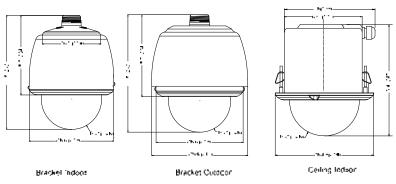
V1764A Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor side opening for wiring V1764B Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor top opening for wiring

V1765 Parapet Mount, 12 inch horizontal, vertical attachment, 1.5 inch NPT

V1765A Parapet Mount, V1765 horizontal attachment adapter

Dimensions

For detailed information, please refer to V1760 series indoor/outdoor dome mounts.



(Unit: inch, in the parentheses is mm)

Mounting















Wall Mounting

Corner Mousting

Hele Mounting

Overroof Side Wall Mounting

Cering Mounting

V1492N-N Series





















- Three simultaneous video streams: Dual H.264 & Scalable M-JPEG
- Up to 4CIF@ H.264/M-JPEG with 30fps@NTSC/25fps@PAL
- **ONVIF-compliant**
- **Motion detection**
- Supports multiple ways to handle alarms, such as sending an email, and FTP upload
- Multiple users access and configure parameters via Web Server
- **Remote PTZ control**
- Up to 254 Presets with labels, 6 programmable Tours, 4 programmable Patterns, 4 Auto-Pan, 1 Auto-Scan
- 16 programmable zones with 16 characters each
- 24 advanced spherical privacy zones
- 16 video blanking sectors
- Wide dynamic range
- Window wiper, built-in heater, window defroster/defogger included
- Operational in 90 mph wind conditions; withstanding wind velocity of up to 130 mph
- **IP66** environment rating

V1492N-N Series Integrated High-speed IP PTZ Camera System integrates the decoder, pan/tilt and housing together, as well as an easy-to-install system; it also includes an Integrated Optics Package (IOP). For a wide range of applications, the V1492N-N features a choice of many of mainstream IOP cameras.

A powder-coated, aluminum construction makes the V1492N-N ideal for either indoor or outdoor applications. The system has an absolute operating temperature range of -40°F $^{\sim}$ 140°F (-40°C $^{\sim}$ 60°C). The V1492N-N series are available with an input voltage of 24VAC or with a selectable power source of 24VDC.

With 10/100M Base-T self-adaptive network functions, the V1492N-N series can output H.264/M-JPEG format video and support three video streams. Strong capability of network remote control not only allows the relative software to search network video, but also sets the IP address, subnet mask & gateway of the video server via Internet Explorer, as well as video encoding, e.g., pre-define encoding parameters, data transmission rate, image quality, etc.

Lens	
Optic Zoom	36X
Digital Zoom	1~12X Adjustable
Aperture/	F1.6 ~ F 4.5;
Focal Length	f=3.4~122.4mm
Angle of View	57.8° (Wide) / 1.7° (Tele)
Min. Work Distance	0.32m (Wide) ~ 1.5m (Tele)
Camera	
Scanning System	2:1 Interlace scanning
Image Sensor	1/4" Progressive scanning CCD
Video Type	PAL/NTSC (D/N)
Sensitivity	Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC:1/4s)
S/N Ratio	>50dB
Sync System	Internal/External
Focus	Auto / Manual / M/A
Iris	Auto / Manual / M/A
Shutter Speed	Auto: Default Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s
DSS	Available
Image	
Analog Video Resolution	PAL/440K: 752(H) x 582 (V) NTSC/380K: 768 (H) x 494 (V)
Frame Rate (max.)	NTSC: 30fps; PAL: 25fps
Maximum Resolution	4CIF @H.264/M-JPEG
Horizontal Resolution	550TVL
Optional Resolution	Major stream: NTSC: 4CIF(704×480)/2CIF(704×240)/ CIF(352×240)/QCIF(176×120); PAL: 4CIF(704×576)/2CIF(704×288)/ CIF(352×288)/QCIF(176×144) Minor stream: NTSC: CIF(352×240)/QCIF(176×120); PAL: CIF(352×288)/QCIF(176×144)
BLC	ON/OFF
WDR	ON/OFF
White Balance	AUTO/MANU/ATW/INDOOR/OUTDOOR
Operational	
Decoder	INFINOVA, PELCO-P/D
Programmable Presets	254
Programmable Tours	6
Programmable Patterns	4

Programmable AutoPans	4	
Spherical Privacy Zones	24	
Video Blanking Sectors	16	
Auto Scan	1	
Motion Detection	4 areas	
Camera Address	1~254	
Compression		
Video Compression	H.264 / M-JPEG	
Interface		
Video Output	1.0±0.2Vp-p	
Network Port	1 RJ-45 10M/100M self-adaptive Ethernet Port	
Network		
Data Rate	Variable bit rate (vbr);	
Network Protocols	Constant bit rate (cbr): 256Kbps~3Mbps TCP/IP, HTTP, ICMP, IGMP, UDP, SMTP, RTP, RTSP, SNMP, ARP	
Mechanical	,	
Variable Speed	Pan: 0.1%s~50%s; Tilt: 0.1%s~25%s	
Preset Speed	Pan: 100%s (max.); Tilt: 30%s (max.)	
Rotation Angle	Pan: 360°; Tilt: +40°~-90°	
Mounting	Surface, Wall, Pole Side, Corner, Pole Top	
Physical		
Construction	Die-cast, extruded and sheet aluminum; stainless steel hardware	
Environmental Rating	IP66	
Load	Pan: 22lbs. (10kg); Tilt: 7.7lbs. (3.5kg)	
Product Weight	21.61 lbs (9.8kg)	
Shipping Weight	31.31 lbs (14.2kg)	
Box Dimension	22.99"×16.81"×10.00"	
(L×W×H) Electrical	(584mm×427mm×254mm)	
Power Supply	24VAC or 24VDC	
Tower Supply	24VAC: 53W (w/ heater);	
Power Consumption	24VDC: 51W (w/ heater)	
Heater	Thermostatically controlled, Turn on at 50°F±9°F (10°C±5°C); Turn off at 86°F±9°F (30°C±5°C)	
Environmental		
Atmospheric Pressure	≤1.5MPa	
Operating Temp.	-40°F~140°F (-40°C~60°C)	
Operating Humidity 0~90%RH (non-condensing)		
Certifications and Ap	.=	
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL 60950, ISO 9001:2008	

Certificate No.: 1 BCT09LC-1321E; 2 BCT09LC-1314E.

Ordering information

V1492N-36N05 Integrated High-speed IP PTZ Camera System

(H.264/M-JPEG Format, NTSC, 36X, 24 VDC)

V1492N-36N06 Integrated High-speed IP PTZ Camera System

(H.264/M-JPEG Format, NTSC, 36X, 24 VAC)

V1492N-36N15 Integrated High-speed IP PTZ Camera System

(H.264/M-JPEG Format, PAL, 36X, 24 VDC)

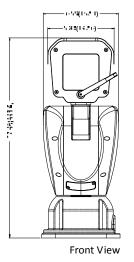
V1492N-36N16 Integrated High-speed IP PTZ Camera System

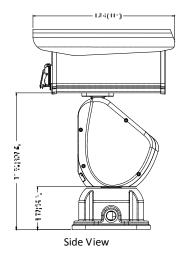
(H.264/M-JPEG Format, PAL, 36X, 24 VAC)

Recommended Installation Mounts

V1662-W1 Wall Mount, 15 inch
V1662-S1 Pole Side Mount, 15 inch
V1662-C1 Corner Mount, 15 inch

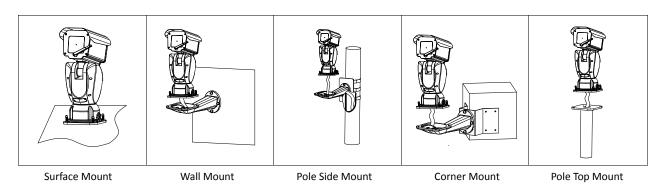
Dimensions





(Unit: inch, in the parentheses is mm)

Mounting



V1492N-T Series

























- Resolution up to D1@ H.264/M-JPEG
- Three simultaneous video streams: Dual H.264 & Scalable
- Low bandwidth with high image quality and smooth video
- **Onvif Profile S**
- **Remote PTZ control**
- Supports RS485 remote control and analog video output
- Area zoom and image overlapping
- Multiple white balance modes
- Local recording
- Storage to SD card
- Supports Presets, AutoPans, Patterns, AutoScan, Timed **Tour, Normal Tour and Home Return**
- Privacy mask, motion detection
- 2 alarm inputs and 1 relay output
- Two-way audio, G.711
- High strength aluminum-alloy casting, heat and corrosion resistant
- Window wiper, built-in heater, window defroster/defogger included
- Operational in 90 mph wind conditions; withstanding wind velocity of up to 130 mph
- IP66 environment rating
- **Upgrade** online

V1492N-T Series Integrated High-speed IP PTZ Camera System is a new generation of video surveillance product developed by Infinova, which can provide high image quality with the resolution up to D1, true day/night functionality, H.264 (major and minor stream) and M-JPEG compression formats, and three simultaneous video streams. Built-in with 36X camera module, this camera also features auto focus, auto white balance, auto gain control, etc. A precision motor drive is applied for good operability, flexible action, smooth running and little noise.

The PTZ cameras offer a user-friendly GUI interface, which makes it easy to adjust the video parameters and perform the PTZ operation. In addition, functions like area zoom and image PTZ are also available.

The PTZ cameras also feature such functions as Presets, Patterns, AutoPans, AutoScan and Normal Tour.

Its powder-coated aluminum construction, absolute operating temperature range of -40°F~140°F (-40°C~60°C) and built-in heater and defroster automatically enabled at low temperatures makes it an ideal surveillance solution for both indoor and outdoor applications.

Lens	
Optic Zoom	36X
Aperture/Focal Length	F1.4~ F4.2; f=3.3~119mm
Angle of View	60.2° (Wide) ~1.8° (Tele)
Min. Work Distance	0.01m (Wide) ~ 1.5m (Tele)
_	0.01111 (Wide) 1.5111 (Tele)
Camera	1/4/1
Image Sensor	1/4" progressive scanning CCD
Scanning System	2:1 Interlace scanning
Video Type	PAL/NTSC (D/N) PAL/440K: 752(H) x 582 (V)
Effective Pixels	NTSC/380K: 768 (H) x 494 (V) Color mode:
Sensitivity	1.0 lux (NTSC: 1/60s, PAL: 1/50s); 0.1 lux (NTSC: 1/4s, PAL: 1/3s) B/W mode: 0.01 lux (NTSC: 1/4s, PAL: 1/3s)
S/N Ratio	>50dB
Sync System	Internal
Iris	Auto / Manual / M/A
Focus	Auto / Manual / M/A
	Auto: Default
Shutter Speed	Manual: PAL: 1/1.5~1/30,000s; NTSC: 1/2~1/30,000s
Image	
Frame Rate (max.)	NTSC: 30fps; PAL: 25fps
Maximum Resolution	D1 @H.264/M-JPEG
Horizontal Resolution	540TVL
Optional Resolution	Major stream: PAL: D1 (720×576) / 4CIF (704 × 576); NTSC: D1 (720×480) / 4CIF (704 × 480) Minor stream: PAL: D1 (720×576) / 4CIF (704 × 576) / 2CIF (704 × 288) / CIF (352 × 288) / QCIF (176 × 144) NTSC: D1 (720×480) / 4CIF (704 × 480) / 2CIF (704 × 240) / CIF (352 × 240) / QCIF (176 × 120)
BLC	ON/OFF
AGC	Available
WDR	OFF/WDR/AD WDR/ WDR*/AD WDR*
DNR	OFF/AUTO/MANU
DSS	Available
White Balance	AUTO/MANU/MERC/SODI
EIS	ON/OFF
Others	Sharpness adjustable
Operational	
Presets	1~255
Patterns	4
Autopans	4
Normal Tours	6 (each tour can be associated with 14 actions, including Preset 1~32, Pattern 1~4, or AutoPan 1~4)
Home Return	Available
Timed Tour	Available
Auto Scan	Available
Alarm	2 alarm inputs, 1 relay output

Privacy Mask	4	
Motion Detection	4 areas	
Area Zoom	Available	
Web Server	Available	
Upgrade Online	Available	
Network		
Network Delay	<300ms	
Data Rate Network Protocols	Variable bit rate (vbr); Constant bit rate (cbr): 256Kbps~10000Kbps IPv4, TCP, UDP, IGMP, DHCP, FTP, SNMP(v3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP	
RS485		
Decoder	INFINOVA, PELCO-P/D	
Camera Address	1~255	
Baud Rate	2400/4800/9600bps	
Compression	-	
Audio Compression	G.711	
Video Compression	H.264/M-JPEG	
Interface		
Audio Port	1 input, linear level, impedance: $1k\Omega$; 1 output, linear level, impedance: 600Ω	
Network Port	RJ45 10/100M self-adaptive Ethernet port	
Mechanical		
Variable Speed	Pan: 0.1%s~50%s; Tilt: 0.1%s~25%s	
Preset Speed	Pan: 100%s (max.); Tilt: 30%s (max.)	
Rotation Angle	Pan: 360°; Tilt: +40°~-90°	
Mounting	Surface, Wall, Pole Side, Corner, Pole Top	
Physical		
Construction	Die-cast, extruded and sheet aluminum; stainless steel hardware	
Environmental Rating	IP66	
Load	Pan: 22lbs. (10kg); Tilt: 7.7lbs. (3.5kg)	
Product Weight	21.61 lbs (9.8kg)	
Shipping Weight	31.31 lbs (14.2kg)	
Box Dimension (L×W×H)	22.99"×16.81"×10.00" (584mm×427mm×254mm)	
Electrical	(JOHIIIINAS/IIIIINSJAIIIIII)	
Power Supply	24VDC/24VAC self-adaptive	
Power Consumption	24VAC: 76W (w/ heater); 24VDC: 67.2W (w/ heater)	
Surge Protection	±2000V	
Environmental		
Atmospheric Pressure	≤1.5MPa	
Operating Temp.	-40°F~140°F (-40°C~60°C)	
Storage Temp.	-40°F~140°F (-40°C~60°C)	
Operating Humidity	0~90%RH (non-condensing)	
Operating numbers	Thermostatically controlled,	
Heater	Turn on at 50°F±9°F (10°C±5°C); Turn off at 86°F±9°F (30°C±5°C)	
Certifications and Approval		
Product Certifications	CE ¹ , FCC ² , ISO 9001:2008	

Certificate No.: 1 CTL1406251445-EC; 2 CTL1406251445-FCC.

Ordering information

V1492N-36T03H Integrated High-speed IP PTZ Camera System

(H.264/M-JPEG Format, D1, NTSC, 36X,

24VDC/24VAC)

V1492N-36T13H Integrated High-speed IP PTZ Camera System

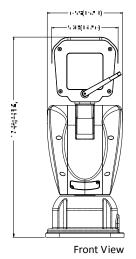
(H.264/M-JPEG Format, D1, PAL, 36X,

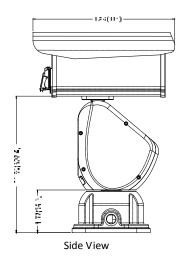
24VDC/24VAC)

Recommended Installation Mounts

V1662-W1 Wall Mount, 15 inch
V1662-S1 Pole Side Mount, 15 inch
V1662-C1 Corner Mount, 15 inch

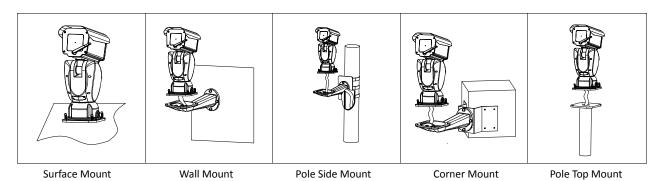
Dimensions





(Unit: inch, in the parentheses is mm)

Mounting



V1492MP-T Series



HD 1MP and 2MP Integrated High-speed IP PTZ Camera System





- Built-in with 18X, 20X or 30X HD integrated camera module
- Resolution up to 1920×1080@30fps or 1280×720@30fps
- Three Simultaneous Video Streams: Dual H.264 high profile
 & Scalable M-JPEG
- ONVIF Profile S compliant
- Remote PTZ control
- Supports RS485 remote control and analog video output
- Area zoom and image PTZ
- Web-based graphical OSD
- Multiple white balance modes
- Local recording
- Storage to SD card
- Supports Presets, AutoPans, Patterns, AutoScan, Timed Tour, Normal Tour and Home Return
- Privacy mask, motion detection
- Alarm function (2 alarm inputs and 1 relay output)
- Bi-directional audio, G.711
- High strength aluminum-alloy casting, heat and corrosion resistant
- Window wiper, built-in heater and window defroster
- Operational in 90mph wind conditions, withstanding wind velocity of up to 130mph
- IP66 environmental rating
- Upgrade online

V1492MP-T series HD 1MP and 2MP integrated high-speed IP PTZ camera system features a set of full digital real-time image acquisition system to deliver clear image at high frame rate and excellent signal-to-noise ratio.

V1492MP-T series which is built-in with 18X, 20X or 30X HD camera module provides 1280×720@30fps or 1920×1080@30fps resolution, H.264/M-JPEG compression formats, and three simultaneous video streams.

The PTZ cameras offer a user-friendly GUI interface, which makes it easy to adjust the video parameters and perform the PTZ operation. In addition, functions like area zoom and image PTZ are also available.

The PTZ cameras also feature such functions as Presets, Patterns, AutoPans, AutoScan and Normal Tour.

Its powder-coated aluminum construction, absolute operating temperature range of -40°F 140 F (-40°C 60 C) and built-in heater and defroster automatically enabled at low temperatures makes it an ideal surveillance solution for both indoor and outdoor applications.

Models	
	192MP-20TH, V1492MP-20TL,
V1492MP-30TH, V14 Lens	192MP-30TS
Optical Zoom	18X, 20X, 30X
Optical 200m	18TH: F1.6~F2.8, f=4.7~84.6mm
Aperture/	20TH: F1.6~F3.5, f=4.7~94mm
Focal Length	20TL: F1.6~F3.5, f= 4.7~94mm
	30TH: F1.4~F4.6, f=4.4~132.0mm 30TS: F1.6~F4.7, f= 4.3~129mm
	18TH: 59.7° (Wide) ~ 3.6° (Tele)
A 1 617 (11)	20TH: 55.2° (Wide) ~ 2.9° (Tele)
Angle of View (H)	20TL: 59.5° (Wide) ~ 3.2° (Tele) 30TH: 62.9° (Wide) ~ 2.2° (Tele)
	30TS: 59.5° (Wide) ~ 2.1° (Tele)
	18TH: 0.01m (Wide)~ 1.0m (Tele)
Min. Work	20TH: 0.01m (Wide) ~ 1.0m (Tele) 20TL: 0.01m (Wide) ~ 1.0m (Tele)
Distance	30TH: 0.01m (Wide) ~ 1.5m (Tele)
	30TS: 0.01m (Wide)~ 1.2m (Tele)
Camera	19TH, 10" CCD
	18TH: 1/3" CCD 20TH: 1/2.8" CMOS
Image Sensor	20TL: 1/2.8" CMOS
	30TH: 1/3" CCD
Scanning System	30TS: 1/2.8" CMOS Progressive scanning
Effective Pixels	1.0Mpx (18TH, 30TH)
	2.0Mpx (20TH, 20TL, 30TS)
S/N Ratio	>50dB
	Color mode (1/30s): 0.8 lux
	(1/30s, F1.6 (wide), 50%, AGC-Gain: 34dB)
Sensitivity	0.1 lux
(18TH)	(1/4s, F1.6 (wide), 50%, AGC-Gain: 34dB) B/W mode (1/4s):
	0.01 lux
Concitivity	(1/4s, F1.6 (wide), 50%, AGC-Gain: 34dB)
Sensitivity (20TH)	Color mode: 0.8 lux @F1.6 (50IRE) B/W mode: 0.02 lux @F1.6 (50IRE)
,	Color mode:
Sensitivity	0.04 lux @ F1.6 (AGC ON)
(20TL)	B/W mode: 0.005 lux @ F1.6 (AGC ON)
	Color mode:
	0.5 lux
Sensitivity	(1/30s, F1.4 (wide), 50%, AGC-Gain: 35dB) 0.1 lux
(30TH)	(1/4s, F1.4 (wide), 50%, AGC-Gain: 35dB)
	B/W mode:
	0.005 lux (1/4s, F1.4 (wide), 50%, AGC-Gain: 35dB)
	Color mode:
	0.5 lux
	(1/30s, 50%, high sensitivity mode on) 0.08 lux
Sensitivity	(1/4s, 1/3s, 50%, high sensitivity mode on)
(30TS)	B/W mode: 0.095 lux
	(1/30s, 50%, high sensitivity mode on)
	0.005 lux
Sync System	(1/4s, 1/3s, 30%, high sensitivity mode on) Internal
lris	Auto, Manual, M/A
Focus	Auto, Manual, M/A

	18TH: Auto (1/30s~1/10000s)
GI	20TH: Auto (1/1.5s~1/30,000s)
Shutter	20TL: Auto (1/25s~1/10000s) 30TH: Auto (1/4s~1/10000s)
	30TS: Auto (1/4s 1/10000s)
DSS	Available (for 20TH, 20TL, 30TH, 30TS)
Image	, wandsie (161 2011), 2012, 3011), 3013)
ŭ	18TH/30TH: 1280×720@30fps
Max. Resolution	20TH/20TL/30TS: 1920×1080@30fps
	18TH: Off/H-mirror
Image Mirror	20TH/20TL/30TH/30TS:
luccus Faccus	Off/H-mirror/V-mirror/HV-mirror
Image Freeze	Available (for 20TH, 30TH, 30TS) 20TL: OFF/Level 1~7
DNR	20TH/30TH: OFF/MANU/AUTO (level 1~3)
DIVIN	30TS: OFF/Level 1~5
	18TH/20TH/20TL/30TH:
White Balance	AUTO/MANU/SODI/MERC
Willie Balance	30TS: AUTO/MANU/INDOOR/OUTDOOR/
100	ATW/OUTDOOR AUTO/SODI AUTO
AGC	Available 18TH/20TL: ON/OFF
	20TH: OFF/WDR/WDR*/AD WDR/AD WDR*
WDR	30TH: WDR*/AD WDR/AD WDR/AD WDR
	30TS: ON/OFF/AUTO
EIS	Available (for 30TH/30TS)
BLC	ON/OFF
Defog Processing	Available
Operational	
Presets	1~255
Patterns	4
Autopans	4
Normal Tours	6 (each tour can be associated with 14 actions, including Preset 1~32, Pattern 1~4, or AutoPan 1~4)
Home Return	Available
Timed Tours	Available
Auto Scan	Available
	4 areas (for 18TH, 20TH and 30TH);
Privacy Mask	6 areas (for 20TL)
	24 areas (for 30TS)
Motion Detection	4 areas
Alarm	2 inputs, 1 output
Area Zoom	Available
Web Server	Available
Upgrade Online	Available
Compression	
Audio	G.711
Compression Video	
Compression	H.264 High profile/M-JPEG
Interface	
Audio Port	1 input (Linear level, resistance: 1000 Ohm)
Addio Port	1 output (Linear level, resistance: 600 Ohm)
Network Port	1 RJ-45 10M/100M self-adaptive Ethernet Port
Network	
Data Rate	Variable bit rate (vbr); Constant bit rate (cbr): 256Kbps~10Mbps
Network Delay	<300ms
Network Protocol	IPv4, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP

Technical specifications (continued)

Mechanical	
Variable Speed	Pan: 0.1°~30%; Tilt: 0.1°~20%
Preset Speed	60%s (max.)
Preset Accuracy	±0.3°
Rotation Angle	Pan: 360°; Tilt: +40° ~ -80°
Electrical	
Power Supply	24VDC
Power Consumption	<72W (w/ heater)
Environmental	
Atmospheric Pressure	≤1.5MPa
Operating Temp.	-40°F~140°F (-40°C~+60°C)
Storage Temp.	-4°F~140°F (-20°C~+60°C)
Operating Humidity	0~95%RH (non-condensing)
Defroster	Thermostatically controlled; Turns on below 59°F (15°C); Turns off above 68°F (20°C)
Physical	
Construction	High-strength aluminum alloy, stainless steel
Environmental Rating	IP66
Mounting	Surface, wall, pole side, corner, pole top
Window Type	HD transparent glass
Window Size	2.32" × 2.32" (59mm×59mm)
Unit Weight	39.68lbs. (18kg)
Shipping Weight	46.30 lbs. (21kg)
Unit Dimensions	18.11"×8.13"×19.26"
(L×W×H)	(460 mm×206.6 mm×489.1 mm)
Box Dimensions	23.03"×13.00"×24.21"
(L×W×H) Certifications and	(585 mm×330 mm×615 mm)
Product	• •
Certifications	CE ¹ , FCC ² , UL, ISO 9001: 2008

Certificate No.: 1 CTL1404150727-EC; 2 CTL1404150727-FCC.

Ordering information

V1492MP-18T05HE HD 1MP Integrated high-speed IP PTZ Camera

System (18X optical zoom, day/night, 1/3-inch progressive scan CCD, H.264/MJPEG, NTSC/PAL,

24VDC)

V1492MP-30T05HE HD 1MP Integrated high-speed IP PTZ Camera

System (30X optical zoom, day/night, 1/3-inch progressive scan CCD, H.264/MJPEG, NTSC/PAL,

24VDC)

V1492MP-20T25HE HD 2MP Integrated high-speed IP PTZ Camera

System (20X optical zoom, day/night, 1/2.8-inch progressive scan CMOS, H.264/MJPEG, NTSC/PAL,

24VDC)

V1492MP-20T25LE HD 2MP Integrated high-speed IP PTZ Camera

System (20X optical zoom, day/night, 1/2.8-inch progressive scan CMOS, H.264/MJPEG, NTSC/PAL,

24VDC)

V1492MP-30T25SE HD 2MP Integrated high-speed IP PTZ Camera

System (30X optical zoom, day/night, 1/2.8-inch progressive scan CMOS, H.264/MJPEG, NTSC/PAL,

24VDC)

Note: The mounting brackets and 24VDC power supply shall be ordered separately.

Recommended Installation Mounts

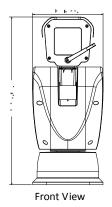
V1663-W2 Wall Mount V1663-S2 Pole Side Mount V1663-C2 Corner Mount

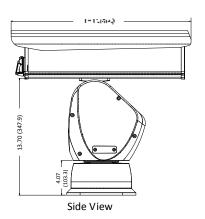
Power Supply

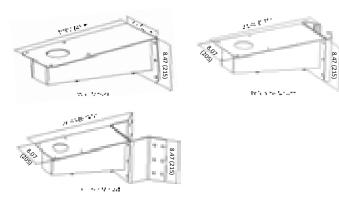
N3925-24D-3 Power Supply, 24VDC, 3.75VA, Plug-In,

110-230VAC

Dimensions

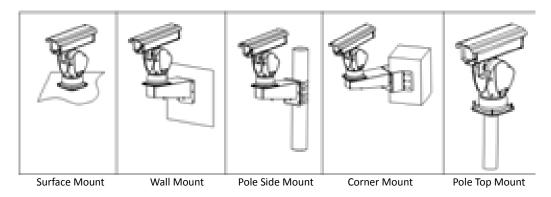






(Unit: inch, in the parentheses is mm)

Mounting



V1492MR-T Series

























- Resolution up to 1920×1080@30fps or 1280×720@30fps
- Built-in imported high efficiency IR LED (wavelength: 850 nm) for super night vision, with an IR range of 330ft. (100m)
- Automatically adjust the power consumption of IR LED as per the camera zoom level to deliver outstanding image quality
- Supports infrared light focusing, to avoid virtual focus
- Three Simultaneous Video Streams: Dual H.264 high profile & Scalable M-JPEG
- Onvif Profile S compliant
- Remote PTZ control
- Supports RS485 remote control and analog video output
- Supports area zoom and image PTZ
- Multiple white balance modes
- Supports image overlapping
- Supports defog processing
- Local recording, storage to SD card
- Supports Presets, AutoPans, Patterns, AutoScan, Timed Tour, Normal Tour and Home Return
- Privacy mask, motion detection
- Alarm function (2 alarm inputs and 1 relay output)
- Bi-directional audio, G.711
- High strength aluminum-alloy casting, heat and corrosion resistant
- Window wiper, built-in heater and window defroster
- Operational in 90mph wind conditions, withstanding wind velocity of up to 130mph
- IP66 environmental rating
- Upgrade online

V1492MR-T series HD 1MP and 2MP Integrated IP PTZ Camera with IR Illuminators features a set of full digital real-time image acquisition system to deliver clear image at high frame rate and excellent signal-to-noise ratio.

V1492MR-T series supports H.264 and M-JPEG compression formats, available with three simultaneous video streams. The PTZ cameras are compatible with 18X and 20X HD camera module, with the resolution up to 1280 × 720@30fps or 1920×1080@30fps.

The PTZ cameras offer a user-friendly GUI interface, which makes it easy to adjust the video parameters and perform the PTZ operation. In addition, functions like area zoom and image PTZ are also available.

The PTZ cameras use imported high efficiency IR LED, with wavelength of 850 nm and IR effective range up to 330ft. (100 m). The power consumption of the IR LED can be automatically adjusted as per the zoom level of the camera, so as to deliver an ideal night vision effect. Besides, the IR LEDs have high stability, which can be used for a long time, and can reduce maintenance costs.

The PTZ cameras also feature such functions as Presets, Patterns, AutoPans, AutoScan and Normal Tour.

Its powder-coated aluminum construction, absolute operating temperature range of -40°F $^{\sim}140$ °F (-40°C $^{\sim}60$ °C) and built-in heater and defroster automatically enabled at low temperatures makes it an ideal surveillance solution for both indoor and outdoor applications.

•	
Models	
V1492MR-18TH, V14	192MR-20TH
Lens	
Optical Zoom	18X, 20X
Aperture/	18TH: F1.6~F2.8, f=4.7~84.6mm
Focal Length	20TH: F1.6~F3.5, f=4.7~94mm
A 1 ()(' (11)	18TH: 59.7° (Wide) ~ 3.6° (Tele)
Angle of View (H)	20TH: 55.2° (Wide) ~ 2.9° (Tele)
Min. Work	0.01 m /Mida/x 1.0m /Tala/
Distance	0.01m (Wide)~ 1.0m (Tele)
Camera	
Image Sensor	18TH: 1/3" CCD
image Sensor	20TH: 1/2.8" CMOS
Scanning System	Progressive scanning
Effective Pixels	1.0Mpx (18TH)
Lifective Fixers	2.0Mpx (20TH)
S/N Ratio	>50dB
	Color mode:
Sensitivity	0.8 lux (1/30s, F1.6, 50%, AGC-Gain: 34dB)
(18TH)	0.1 lux (1/4s, F1.6, 50%, AGC-Gain: 34dB)
	B/W mode: 0 lux (IR on)
Sensitivity	Color mode: 0.8 lux @F1.6 (50IRE)
(20TH)	B/W mode: 0 lux (IR on)
Sync System	Internal
Iris	Auto, Manual, M/A
Focus	Auto, Manual, M/A
Shutter	18TH: Auto (1/30s~1/10000s)
Siluttei	20TH: Auto (1/1.5s~1/30,000s)
DSS	Available (for 20TH)
Image	
Max. Resolution	18TH: 1280×720@30fps
Wax. Nesolation	20TH: 1920×1080@30fps
Image Mirror	18TH: Off/H-mirror
mage winter	20TH: Off/H-mirror/V-mirror/HV-mirror
Image Freeze	Available (for 20TH)
DNR	18TH: /
	20TH: OFF/MANU/AUTO (level 1~3)
White Balance	AUTO/MANU/SODI/MERC
AGC	Available
WDR	18TH: ON/OFF
	20TH: OFF/WDR/WDR*/AD WDR/AD WDR*
BLC	ON/OFF
Defog Processing	Available
Others	18TH:Sharpness adjustable
	20TH: Sharpness adjustable, Slow AE
Operational	
Presets	1~255
Patterns	4
Autopans	4
	6 (each tour can be associated with 14 actions,
Normal Tours	including Preset 1~32, Pattern 1~4, or AutoPan
	1~4)
Home Return	Available
Timed Tours	Available
Auto Scan	Available
Motion Detection	4 areas
Privacy Mask	4 areas
Alarm	2 inputs, 1 output
Area Zoom	Available
Web Server	Available
Upgrade Online	Available

Compression		
Audio Compression	G.711	
Video Compression	H.264 High profile/M-JPEG	
Interface		
Audio Port	1 input (Linear level, resistance: 1000 Ohm)	
Nativali Dant	1 output (Linear level, resistance: 600 Ohm)	
Network Port Network	1 RJ-45 10M/100M self-adaptive Ethernet Port	
	Variable bit rate (vbr);	
Data Rate	Constant bit rate (cbr): 256Kbps~10Mbps	
Network Delay	<300ms	
	IPv4, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3),	
Network Protocol	SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL,	
	SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP	
Mechanical		
Variable Speed	Pan: 0.1°~30%s; Tilt: 0.1°~20%s	
Preset Speed	60% (max.)	
Preset Accuracy	±0.3°	
Rotation Angle	Pan: 360°; Tilt: +40° ~ -80°	
Power Supply	24VDC/24VAC	
Power	2.1.50/241110	
Consumption	<110W (w/ heater)	
Environmental		
Atmospheric	≤1.5MPa	
Pressure		
Operating Temp.	-40°F~140°F (-40°C~+60°C)	
Storage Temp.	-4°F~140°F (-20°C~+60°C)	
Operating	0~95%RH (non-condensing)	
Humidity		
5 (Thermostatically controlled:	
Defogger	Turns on below 59°F (15°C);	
Physical	Turns off above 68°F (20°C)	
Construction	High-strength aluminum alloy, stainless steel	
Environmental		
Rating	IP66	
Ü	Wave length: 850nm;	
IR LED	Coverage distance: 330ft (100m)	
Mounting	Surface, wall, pole side, corner, pole top	
Window Type	HD transparent glass	
Window Size	2.32" × 2.32" (59mm×59mm)	
Unit Weight	48.50lbs. (22kg)	
Shipping Weight	55.12 lbs. (25kg)	
Unit Dimensions	19.26"×13.79"×18.11"	
(L×W×H)	(489.2 mm×350.2 mm×460 mm)	
	24.21"×23.03"×13.00"	
Box Dimensions	(615 mm×585 mm×330 mm) (for camera)	
(L×W×H)	11.42"×8.27"×5.91"	
C-wift	(290 mm×210 mm×150 mm) (for IR LED)	
Certifications and	Approval	
Product	CE 1, FCC 2, UL, ISO 9001: 2008	
Certificate No : 1 CTI 14071	51633-FC ² CTI 1407151633-FC	
Certificate No.: ¹ CTL1407151633-EC, ² CTL1407151633-FC		

Ordering information

V1492MR-18T05HE HD 1MP Integrated IP PTZ Camera with IR

illuminators (18X optical zoom, day/night, 1/3-inch progressive scan CCD, H.264/MJPEG, NTSC/PAL,

24VDC)

V1492MR-20T25HE HD 2MP Integrated IP PTZ Camera with IR

illuminators (20X optical zoom, day/night, 1/2.8-inch progressive scan CMOS, H.264/MJPEG,

NTSC/PAL, 24VDC)

V1492MR-18T06HE HD 1MP Integrated IP PTZ Camera with IR

illuminators (18X optical zoom, day/night, 1/3-inch progressive scan CCD, H.264/MJPEG, NTSC/PAL,

24VAC)

V1492MR-20T26HE HD 2MP Integrated IP PTZ Camera with IR

illuminators (20X optical zoom, day/night, 1/2.8-inch progressive scan CMOS, H.264/MJPEG,

NTSC/PAL, 24VAC)

Note: The mounting brackets, 24VDC and 24VAC power supply unit shall be ordered separately.

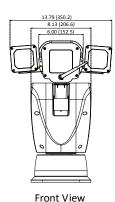
Recommended Installation Mounts

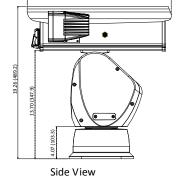
V1663-W2 Wall Mount V1663-S2 Pole Side Mount V1663-C2 Corner Mount

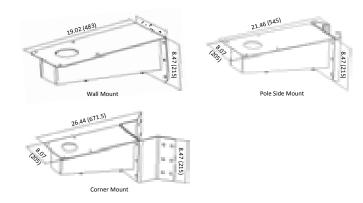
Power Supply

N3925-24D-6 Power Supply, 24VDC, 6A, Plug-In, 110-230VAC

Dimensions

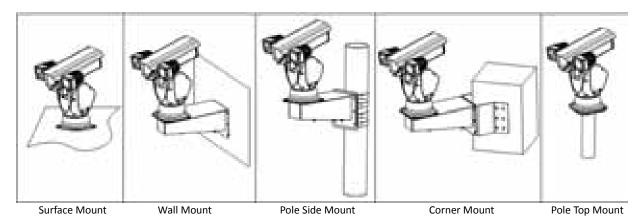






(Unit: inch, in the parentheses is mm)

Mounting



V2511-K Series IP Video Encoder



















- Three simultaneous video streams: dual H.264 & scalable M-JPEG
- UP to 4CIF@30fps with H.264 stream and M-JPEG stream
- Bi-directional audio, G.711
- Remote PTZ control
- Privacy mask
- Motion detection
- Supports alarm input and output
- Multiple ways to dispose alarms, such as sending an email, FTP upload, audible alarm
- Compatible with TCP/IP, HTTP, ICMP, DHCP, UDP, SMTP, RTP, RTSP, SNMP, ARP, etc. protocols
- Accesses and configures parameters via Web Server

V2511-K series IP Video Encoder (card) is a brand new network video encoding terminal, integrates video & audio encoding and data transmission technologies, very suitable for remote video & audio monitoring, and can be widely used for security applications in building, traffic system, power plant and others.

V2511-K series IP Video Encoder (card) uses the powerful Digital Signal Processing (DSP) technology. A single card provides real time encoding of 4 video inputs, with H.264 /M-JPEG video encoding formats and three simultaneous video streams optional for storage or viewing.

V2511-K series IP Video Encoder (card) features powerful remote network control function, which allows configuration of video encoding parameters via Web Server or client-end software.

V2511-K series standalone video encoder is designed in single card with separate power supply, featuring in compact size and supporting wall or desk mounting. It can work together with N3913 series chassis. The N3913 series chassis is designed with multiple slots, and supports plug and play. A single chassis can accommodate 17 encoding cards at the most.

Video Encoding	H.264/M-JPEG
Video Input (single card)	4, BNC (1.0 Vp-p, 75 ohm)
Video System	PAL/NTSC self-adaptive
Maximum Resolution	4CIF@H.264/M-JPEG
Optional Resolutions (Major stream)	PAL: 4CIF(704×576)/2CIF(704×288)/CIF(352×288); NTSC: 4CIF(704×480)/2CIF(704×240)/CIF(352×240)
Optional Resolutions (Minor stream)	PAL: CIF(352×288)/QCIF(176×144); NTSC: CIF(352×240)/QCIF(176×120)
Frame Rate (maximum)	PAL: 25fps; NTSC: 30fps
Data Rate	Variable bit rate (vbr); Constant bit rate (cbr): 256Kbps~2Mbps
Audio Encoding	G.711
Audio Interface	4 inputs / 1 output (single card)
Network Protocol	TCP/IP, HTTP, ICMP, DHCP, UDP, SMTP, RTP, RTSP, SNMP, ARP etc.
Network Interface	10/100Mbps Base-T, self-adaptive, RJ-45
Control Interface	1 RS-422 port
Alarm Interface	4 alarm inputs / 2 alarm outputs (single card)
Power Supply	Standalone module: 12VDC/24VAC/PoE (IEEE 802.3af Class 2); Rack style: 110VAC~230VAC

Power Consumption (single card)	≤6W	
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)	
Operating Humidity	10%~90%RH (non-condensing)	
Mechanical Specifications (standalone module)		
Product Size (H×W×D)	6.22" ×0.94" ×9.17" (158mm×24mm×233mm)	
Package Size (HxWxD)	2.99"×9.49"×12.20" (76mm×241mm×310mm)	
Net Weight	1.54lbs. (0.70kg)	
Shipping Weight	2.98lbs. (1.35kg)	
Mechanical Specifications (rack style)		
Chassis Size	3U standard	
Net Weight	17-card single power chassis: 15.65lbs. (7.1kg) 14-card double power chassis: 14.99lbs. (6.8kg)	
Mounting	19" EIA standard rack mount	
Package Size (L×W×H)	20.47"×15.75"×9.84" (520mm×400mm×250mm)	
Certifications and Approval		
Product Certifications	CE, FCC, ISO 9001:2008	

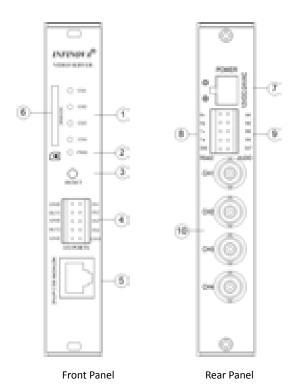
Ordering information

V2511-K4D0	IP Video Encoder, 4 video inputs, H.264 & M-JPEG, 4CIF, PoE/12VDC/24VAC
V2511-K4D	IP Video Encoder Card, 4 video inputs, H.264 & M-JPEG, 4CIF
N3913-17S	19" chassis, single power supply, 17 slots, no power supply
N3913-17S1	19" chassis, single power supply, 17 slots, power supply included
N3913-14R	19" chassis, double power supply, 14 slots, no power supply
N3913-14R1	19" chassis double power supply, 14 slots, and power supplies included
N3923-135W	135W power supply
N3910-000	Fan

Note: Please order a fan for the N3913-17S Chassis if more than 7 cards are used and one for N3913-14R Chassis if more than 6 cards are used.

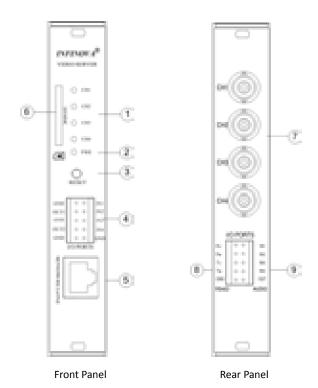
Panel diagrams

Video Encoder Panel



- (1) Video input indicators (4 videos)
- (2) Power Indicator
- (3) Reset button
- (4) Alarm input/output interface
- (5) Ethernet Interface and indicators
- (6) Reserved
- (7) Power input interface
- (8) RS422 port
- (9) Audio Input / output interface
- (10) 4 Video input interfaces

Video Encoder Card Panel



- (1) Video input indicators (4 videos)
- (2) Power Indicator
- (3) Reset button
- (4) Alarm input/output interface
- (5) Ethernet Interface and indicators
- (6) Reserved
- (7) Video input interface
- (8) RS422 port
- (9) Audio Input / output interface

V2521-N Series IP Video Decoder







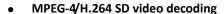












- Real time D1/4CIF/2CIF/CIF video decoding
- 1 analog output port
- PAL/NTSC self-adaptive
- Supports TCP/IP, HTTP, SNMP, UDP, NTP, etc.
- Configures system parameters via Web server or V2216
- G.711 audio compression arithmetic
- Remote update via network
- Multiple users access simultaneously
- Multilevel user password protection to prevent unauthorized operation

V2521-N Series IP Video Decoders/Decoding Cards use powerful digital signal processing technology to provide real-time MPEG-4/H.264 decoding and authentic video restoration.

V2521-N Series IP Video Decoders/Decoding Cards feature powerful remote control capability of network. Web server or client software can be used to configure video decoder's IP address, subnet mask, gateway, and video decoding parameters. Multilevel user password protection is provided to ensure system security.

V2521-N Series standalone IP video decoder is designed in single card with separate power supply, featuring in compact size, light weight, low power consumption and low heat generation.

The N3913 series chassis is designed with multiple slots, and supports plug and play. A single chassis can accommodate 17 decoding cards at the most.

Video Decoding	MPEG-4/H.264
Decoding Capacity	D1/4CIF/2CIF/CIF (1-ch)
Video Output Interface	BNC (1.0 Vp-p, 75 Ohm)
Video System	PAL/NTSC, self-adaptive
Maximum Frame Rate	25fps(PAL)/30fps(NTSC)
Network Port	RJ-45, 10M/100M Base-T self-adaptive
Network Protocol	TCP/IP, HTTP, SNMP, UDP, NTP, etc.
Control Port	1, RS422
Power	Standalone module: 12VDC/24VAC/PoE (IEEE 802.3af Class 2) Rack style: 110VAC~230VAC
Power Consumption (Single Decoder Card)	PoE: <6.2W; 12VDC: <5.2W; 24VAC: <5W
Operating Temperature	14°F~122°F (-10°C~50°C)

Operating Humidity	10%~ 90%RH (non-condensing)				
Mechanical Spec	ifications (standalone module)				
Product Size (H×W×D)	6.22"×0.94"×9.17" (158mm×24mm×233mm)				
Package Size (HxWxD)	2.99"×9.49"×12.20" (76mm×241mm×310mm)				
Net weight	1.54 lbs. (0.70 kg)				
Shipping weight	3.20 lbs. (1.45 kg)				
Mechanical Spec	ifications (rack style)				
Chassis Size	3U standard				
Net Weight	17-card single power chassis: 15.65lbs. (7.1kg) 14-card double power chassis: 14.99lbs. (6.8kg)				
Mounting	19" EIA standard rack mount				
Package Size (L×W×H)	20.47"×15.75"×9.84" (520mm×400mm×250mm)				
Certifications and	d Approval				
Product Certifications	CE, FCC, ISO 9001:2008				

Ordering information

V2521-N1D0	IP video decoder module, MPEG-4/H.264, 1 video
	output, D1 resolution, PoE/12VDC/24VAC
V2521-N1D	IP video decoder card, MPEG-4/H.264, 1 video output,
	D1 resolution
N3913-17S	19" chassis, single power supply, 17 slots, no power
	supply
N3913-17S1	19" chassis, single power supply, 17 slots, power
	supply included
N3913-14R	19" chassis, double power supply, 14 slots, no power
	supply
N3913-14R1	19" chassis double power supply, 14 slots, power
	supplies included
N3923-135W	135W power supply
N3910-000	Fan

COMPATIBLE FRONT DEVICES

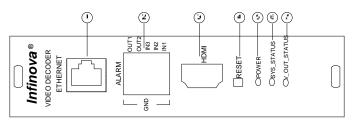
-N, -M and -T series SD products V2511-K/V2511-N series V3061DVR

Note: Please order a fan for the N3913-17S Chassis if more than 7 cards are used and one for N3913-14R Chassis if more than 6 cards are used.

Panel diagrams

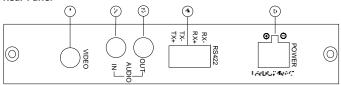
V2521-N Standalone Module

Front Panel



- (1) Ethernet port & Network status indicator
- (2) Reserved
- (3) Reserved
- (4) Reset button
- (5) Power indicator
- (6) System status indicator
- (7) Video output status indicator

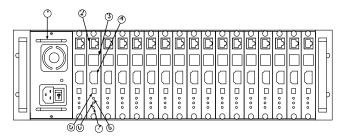
Rear Panel



- (1) Video output port
- (2) Reserved
- (3) Audio output port
- (4) RS-422 control signal port
- (5) Power Interface

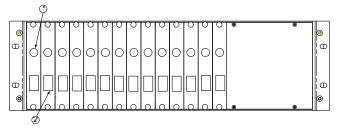
V2521-N Rack Style

Front Panel



- (1) Power supply
- (2) Ethernet port & Network status indicator
- (3) Reserved
- (4) Reserved
- (5) Reset button
- (6) Power status indicator
- (7) System status indicator
- (8) Video output status indicator

Rear Panel



- (1) Video output port
- (2) RS-422 control signal port

V2524-H1 Series HD Video Decoder









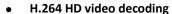












- Real time 2048×1536/1080P/1600×1200/960P/720P/D1/ CIF/QCIF video decoding
- Screen division 1/4/9/16, with 1 divisional screen up to 2048×1536, 4 divisional screens up to 1080P and 9/16 divisional screens up to D1
- OSD character-overlapping
- G.711 audio decoding
- Supports ONVIF2.0
- Supports to control PTZ cameras via RS422
- Supports HDMI/DVI-D HD video output and BNC SD video output, with standalone module and rack style optional
- Configures system parameters via Web server
- Multiple users access simultaneously
- Multilevel user password protection to prevent unauthorized operation

V2524-H1 Series HD Decoders/Decoding Cards use powerful digital signal processing technology to decode front-end devices manufactured by our company, such as -G, -T and -H series HD products, -N series SD products, V2511-K, V2511-N and V2531-S encoder and V3061 DVR, and to decode third party front-end devices (ONVIF 2.0-compliant). Besides, it provides real-time H.264 video decoding and supports real time 2048×1536/1080P/1600×1200/960P/720P/D1/ CIF/QCIF video decoding.

V2524-H1 Series HD decoder supports HDMI/DVI-D HD video output and BNC SD video output, and features powerful network remote control capability. Web server or client software can be used to configure video decoder's network channel and video decoding parameters. Besides, it supports to control PTZ cameras via RS422, and provide multilevel user password protection to ensure system security.

V2524-H1 Series standalone HD decoder is designed in single card with separate power supply, featuring in compact size, light weight, low power consumption and low heat generation.

The N3913 series chassis is designed with multiple slots, and supports plug and play.

Video Decoding	H.264
Decoding Capacity	1 divisional screen supports up to 2048×1536, 4 divisional screens up to 1080P and 9/16 divisional screens up to D1
Video Output	1-ch video output, supports HDMI, DVI and CVBS
Screen Division	1/4/9/16
Audio Encoding and Decoding Standard	G.711
Audio Output	1 linear level output
Network Interface	RJ-45, 10M/100M/1000M Base-T self-adaptive
Network Protocol	TCP/IP, HTTP, SNMP, UDP, RTP, NTP etc.
Control Port	1, RS422
Power Supply	Standalone module: 12VDC/24VAC Rack style: 100VAC~240VAC
Power Consumption	Standalone module: ≤9W Rack style (full load): ≤110W
Operating Temperature	14°F~122°F (-10°C~50°C)
Storage Temperature	-4°F~140°F (-20°C ~60°C)

Mechanical Specifications (standalone module)				
Chassis Size (H×W×D)	6.22"×1.77"×9.17" (158mm×45mm×233mm)			
Package Size (L×W×H)	11.97"×10.39"×4.09" (304mm×264mm×104mm)			
Net weight	1.76 lbs. (0.80 kg)			
Shipping weight	3.53 lbs. (1.6 kg)			
Mechanical Specifications (rack style)				
Chassis Size	3U standard			
Net Weight	14-card double power chassis: 14.99lbs. (6.8kg)			
Mounting	19" EIA standard rack mount			
Package Size	20.47"×15.75"×9.84"			
(L×W×H)	(520 mm×400 mm×250 mm)			
Certifications and Approval				
Product Certifications	CE, FCC, ISO 9001:2008			

Ordering information

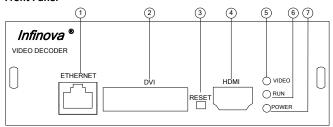
V2524-H1H4	Embedded Video Decoder, 1V out; 12VDC/24VAC	COMPATIBLE FRONT-END DEVICES
V2524-H1H	Embedded Video Decoding Card	-G, -T and -H series HD products
N3913-14R1	19" chassis, double power supply, 14 slots, power	-N series SD products
	supply included	V2511-K, V2511-N and V2531-S encoder
N3923-135W	135W power supply	V3061 DVR
N3910-000	19" 1U fan, 120V	Third party front-end devices (ONVIF 2.0-compliant)

Note: N3913-14R1 chassis should work with N3910-000 fan.

Panel diagrams

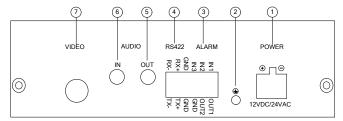
V2524-H1H4 Standalone Module

Front Panel



- (1) Ethernet port & Network status indicator
- (2) DVI port
- (3) Reset button
- (4) HDMI port
- (5) Video output status indicator
- (6) System status indicator
- (7) Power indicator

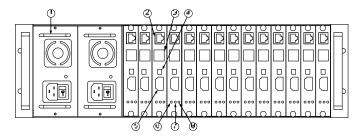
Rear Panel



- (1) Power Interface
- (2) GND interface
- (3) Alarm interface (reserved)
- (4) RS-422 control signal port
- (5) Audio output port
- (6) Audio input port (reserved)
- (7) BNC output port

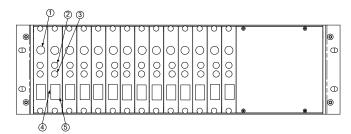
V2524-H1H Rack Style

Front Panel



- (1) Power supply
- (2) Ethernet port & Network status indicator
- (3) DVI port
- (4) Reset button
- (5) HDMI port
- (6) Power indicator
- (7) System status indicator
- (8) Video output status indicator

Rear Panel



- (1) BNC output port
- (2) Audio input port (reserved)
- (3) Audio output port
- (4) Alarm interface (reserved)
- (5) RS-422 control signal port

V2216 Series







V2216 network video management software is a central management platform for all kinds of network video systems. It includes two versions: V2216 Professional and V2216 Enterprise. The former is suitable for medium surveillance installation and supports a maximum of 128 video inputs, while the latter is the most powerful software which suitable for any large surveillance installation.

The V2216 digital matrix functions inherit major advantages from classic Infinova video matrix switchers, such as system tour, salvo, and alarm management. And the software allows network keyboard to control the system. The operation of V2216 is easy and convenient as that of analog video matrix. Thanks to compatibility with all Infinova digital video products and integration with all Infinova series matrix switchers and Pelco matrix switchers, the V2216 platform can perform centralized management and control over the digital video system and analog video system.

The V2216 system provides TV Wall mode. The video play window on client monitor can be used as TV wall, and the IP camera's video can be switched to the TV wall via physical keyboard or virtual keyboard. This will save the cost of decoding devices while retaining the convenience of digital matrix switching system, providing intelligent, flexible, quick and convenient services to users.

Features

System

- Multiple systems cascading, building a central management platform to a large network video system
- Supports CMS hot standby, NVR redundancy, SMT load balancing, SMT multicast and SMT multi-transmitting
- Supports digital matrix functions, such as configuration of TOUR, SALVO and Event Timer
- Two way audio talks and audio broadcasting, which can sending audio broadcasting to multiple sites simultaneously
- Supports analog keyboard
- Supports device video loss alarm and NVR hard disk (HD) error / HD expiration alarm
- Supports searching alarm information based on preset conditions, searching in a time period, and calling alarm video via the searching results
- Supports third party alarm devices: BOSCH, Honeywell, INANTER etc.
- Supports third party access control integration: DDS access control, Lenel access control, PEAK access control etc.
- Supports transmit the operating order of V2216 software to third party alarm devices
- Supports remote restarting to system devices and servers
- Supplies with SDK and supports clients to customize functions

Client and TV wall

- Major and minor code streams auto switch according to image size, so as to reduce client CPU resource consumption and improve efficiency
- Multilevel E-maps, and can remember the size and position of the video window pop-out from the E-maps
- Supports linked layers and Hawkeye function of E-map
- Supports viewing real time video by picture in picture
- Optimizes decoding performance, allowing to view 8*1080P high definition video

- Supports screen vector PTZ control and intelligent operation like zooming in the selected zone and central position adjustment by mouse click
- Supports light, wiper and user-defined control function
- Supplies with analog TV wall operations, switching videos by mouse dragging
- Supports keyboard to switch screen

Services input

- compatible with all series DVR, encoder, and camera of Dahua and Hikvision
- Integrates with analog surveillance system seamlessly to realize mutual live video calling between digital and analog systems
- Supports devices and platforms meeting the protocol of GB/T 28181
- Supports inputs of devices fitting ONVIF1.0/2.0

Intelligence (optional)

- Supports image stitching of multiple cameras, and supports up to 5*1080P panoramic stitching
- Supports linkage between dome camera and fixed camera, to realize perfect video switching
- Supports video summarizing and searching, so as to locating moving target quickly
- Supports basic behavior analysis: such as intelligent analysis of real time video and record video with the function of counting, transgression, loitering, track, item left/loss, inspection on exit and entrance
- Supports video diagnosis and detection: including quality detection of real time video and record video with the function of video occlusion and loss, definition abnormal, offset, brightness

Ordering information

V2216 PROFESSIONAL

V2216 Professional supports up to 128 video inputs.

Ordering Information

V2216-P V2216 Professional version, supports up to 128 video

inputs

V2216-P-M V2216-P maintenance plan

V2216-P-C1 V2216 Professional License, for 1 video input

V2216-P-C1-M V2216-P-C1 maintenance plan

V2216 ENTERPRISE

V2216 Enterprise supports up to 9999 video inputs.

Ordering Information

V2216-E V2216 Enterprise version, supports up to 9999 video

inputs

V2216-E-M V2216-E maintenance plan

V2216-E-C1 V2216 Enterprise License, for 1 video input

V2216-E-C1-M V2216-E-C1 maintenance plan

Optional Accessories

Hardware:

V2392-D1 Desktop PC and monitor station

V2216-R400WE Network video management server, with Windows

Server 2008 and SP2 optional

Note:

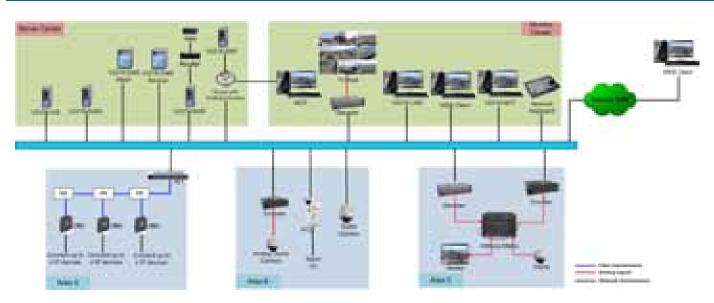
As the server of SMT and NVR, V2216-R400WE series support streaming media transfer and video storage for streams of 60ch*8M, 80ch*6M, 100ch*4M and 128ch*2M. It supports a transfer rate of up to 512Mbps.

System requirements

Recommended PC Configuration for Clients (LMC / NCT)				
CPU	Intel®Core™ i7-2600 CPU @3.40GHz, 3.40GHz			
Nominal CPU Frequency	≥ 2.83 GHz			
Memory	≥ 4G			
Network Adapter	1000Mbps, Ethernet			
Display Card	≥ 256M (display memory)			
Operating System	Windows XP/7, supports Chinese and English versions			
Recommended PC Configuration for Server	s of CMS/SMT/NVR (Professional Version)			
CPU	Intel® Xeon® E3 1200 series or above			
Nominal CPU Frequency	≥ 3.0GHz			
Memory	4G			
Network Adapter	≥ 2000Mbps, Ethernet			
Operating System:	Windows 2003 Server/2008 Server, supports Chinese and English versions			
Recommended PC Configuration for Servers of CMS/SMT/NVR (Enterprise Version)				
CMS				
Nominal CPU Frequency	≥ 2.4 GHz			
Memory	2G			
Network Adapter	1000Mbps, Ethernet			
Operating System	Windows 2003 Server/2008 Server, supports Chinese and English versions			
SMT/NVR				
CPU	Intel® Xeon® E3 1200 series or above			
Nominal CPU Frequency	≥ 3.0 GHz			
Memory	4G			
Network Adapter	≥2000Mbps, Ethernet			
Operating System:	Windows 2003 Server/2008 Server, supports Chinese and English versions			

Note: it is strongly recommended to install CMS in a separate server, and install SMT and NVR in the same server. Multiple suits of SMT/NVR can be installed if there are many surveillance sites.

Typical system application diagram



V2217 Series Intelligent Video Management Software







- Feature-rich yet cost-effective solution
- Software based video management System
- Manages external devices along with video sources
- Supports wide range of video sources and external devices
- Highly optimized system which can manage thousands of video sources and external devices
- Runs on industry standard hardware and network components, no custom hardware requirements
- Supports virtual machines and virtualization platforms
- Supports wide range of storage devices
- Option for project specific customizations

Simultaneous Functioning

- Recording
- · Alarms handling
- · Client software request handling
- Live view
- Camera control
- Map view
- Video analytics
- Playback
- Configuration
- Report generation
- Failover management
- Redundant recording

Video Input

- Hybrid solution which supports analog video as well as IP video
- Video capture from wide range of IP video sources video cameras, video encoders, video servers
- Video capture from analog cameras through wide range of video capture devices – PCI video capture cards, USB video capture cards, video capture cards supporting on-board video compression
- Video capture from DVRs
- Supports video sources compliant with ONVIF specifications
- · H.264, MPEG4, MJPEG, MxPEG formats
- Mega pixel (up to 10 megapixels) cameras
- IR / thermal cameras
- · Fixed cameras and PTZ cameras
- 360 degree / fish-eye cameras
- Built in video capture algorithms to minimize the bandwidth usage
- Independent FPS, resolution and bit rate settings for display stream, recording stream and video analytics stream
- · Auto search / camera discovery for IP video devices
- · Auto search digitized inputs from analog cameras
- Add multiple cameras, with a single button click
- Edit video capture settings for multiple cameras, with a single button click
- Add linked cameras from a single video source (like video server or DVR), with a single button click
- Recommended settings guidance for each type of video source while adding cameras
- · Capture and record audio stream
- · Optional GPS co-ordinate specification for every camera
- · User configurable 'Channel name' for every camera
- Y-flip video to manage difference in co-ordinate systems
- · Automatic restore of video connection
- Flexible architecture to quickly integrate any new cameras

Multi-stream Cameras

- Advanced algorithms for optimized handling of multiple streams from cameras
- Flexible stream selection options which assist in designing the solution, exactly as per the project requirements
- Selection of 2 streams for live video display. Best stream for each display operation is intelligently selected by the software, to keep resource utilization to minimal
- · Selection of recording stream for every camera
- Selection of stream for motion detection and video analytics processing for every camera
- Selection of stream for live video display on mobile clients

360 Degree Cameras

- Full support for 360 degree panoramic view cameras (and 360 degree lenses)
- Client side (display time) de-warping of fish-eye streams for live video as well as recorded video
- Complete control on de-warping parameters like camera mounting type, de-warping mode (fish-eye, virtual PTZ, half panorama, full panorama etc), image parameters (brightness, contrast etc)
- · Virtual PTZ control for de-warped video streams
- Interactive virtual PTZ on de-warped streams using mouse
- Capture different channels directly from 360 degree camera fish-eye stream, virtual PTZ stream, half panorama, full panorama etc, if camera supports these channels

- Independently record one or more channels captured from a 360 degree camera, with independent recording configuration for each channel
- Seamless PTZ control on channels which support PTZ operations
- Independent PTZ control for each channel
- Multiple video resolution streams capture for each channel to work with optimization algorithms
- Automatic linking of channels from a 360 degree camera
- · Configure name for each linked group of channels
- Single click operation to switch to any of the linked channels

Video Sequences

- A video sequence defines list of cameras and dwell time for each camera
- During display of a video sequence, the list of cameras is iterated cyclically, each camera being displayed for the specified dwell time
- · No limit on number of video sequences which can be defined
- Video sequences can be defined in the server software, and are available for all connected clients, based on the privilege definitions
- Local video seguences can be defined in client software
- All defined video sequences are available in the tree controls associated with various screens. Video sequences can be viewed using normal drag and drop operation
- Optimized processing of video sequences, to use minimal resources

External Devices

- Manage external devices like access control cards, motion sensors, fire alarms, fence control devices, zone controllers etc
- Support for TCP/IP MODBUS communication
- Primary and secondary videos association with external devices
- Provides video evidence for alerts and logs generated by external devices
- Alarm capture from connected external devices
- Full alarm handling configuration for alarms captured from connected external devices, similar to internal alarms generated from the software
- · Flexible architecture to quickly integrate any new external device

Audio Devices

- · Ability to add independent audio devices
- · Audio data captured from audio devices is recorded independently
- Recorded audio data can be played back, synchronized in time, with video devices and audio streams associated with video sources

Device Groups

- One or more device groups can be defined to associate related devices together.
- All defined device groups are available in the tree controls associated with various screens, as a single node and all devices added to that device group as sub-nodes
- 'Exclusive device selection' option to easily define device groups with no devices included in more than one group
- 'All devices' device group is available by default and includes all devices
- · Device groups are used for user privilege assignments
- Device groups can be used for categorizing devices displayed in the tree controls, associated with various screens.

Type of Alarms

- Network loss
- · Network recovery
- · Video loss
- · Video recovery
- · Low disk space
- Disk space recovery
- · Recording failure
- · Recording restored
- · Motion detected
- No motion
- · Camera tampering detection
- · Video Analytics alarms
- · Alerts generated by the cameras and video servers
- Alerts generated by the integrated external devices like access control systems, fence control systems etc
- · External digital alarm input
- · Alarms from relay devices
- Alarms from devices supporting MODBUS protocol

Alarms Management

- User configurable alarm handling for each type of alarm
- Alarm handling rules to configure alarm handling for specific type of alarm generated from each device independently. Provides completely flexibility to configure alarm handling for each type of alarm, and to customize alarm handling for alarm generated by a specific device
- · Alarms stacking / queuing
- Alarm categories Logs, Warnings and Alerts
- User configurable colors for alarm categories. Alarms list uses these colors to indicate alarm category
- Advanced alarm acknowledgement screen displaying active alarms queue, displaying live video and alarm videos associated with each of the alarms in the queue. Quick access to multi-channel playback and video export associated with search results
- Dedicated recent alarms screen, with support for alarm video view with navigation controls. Quick access to multi-channel playback and video export associated with search results
- User configurable 'Alarm name' definition for specific type of alarms generated from specific devices. This allows operators to understand an alarm more clearly and also improves the alarm reports output.
- Wide range of alarm handing options configurable for each type of alarm from individual sources
- Video overlay indicator
- Pop up alarm acknowledge window
- · Manual alarm acknowledgement
- · Time threshold based automatic alarm acknowledgement
- An alarm can be acknowledged from any computer which displays the alarm acknowledgement for that alarm. Acknowledged alarm is then removed from the active alarms list of all computers
- · Play sound / audio
- Indicators on map blinking icons or alarm indication on videos embedded in map
- · Start multi-channel recording
- Move one or more PTZ cameras to pre-defined presets
- Start pre-defined tours for one or more PTZ cameras
- · Send digital output signal
- · Pop up live video screen

- · Pop up preconfigured video screen
- Send e-mail through standard SMTP server or Microsoft Exchange Server
- Save image
- · Execute user defined macros
- Send to FTP
- Send SMS through 'Phone network gateway' application
- Initiate phone call through 'Phone network gateway' application
- Publish as RSS feed, with options to configure the alarms to be included in the RSS feed response
- · Generate test alarms for quick tests of alarm handling configurations

Motion detection

- Seamless integration of motion detection results available from cameras
- · Motion detection processing from application
- · Independent motion detection settings for every camera
- 'Motion detected' and 'No motion' alarms to indicate start of motion and end of motion
- Advanced motion detection algorithm with high accuracy and low resource utilization
- Record on motion
- Motion detection meta-date overlay on videos with configuration for overlay level – no overlay, only motion indicator, motion grids, full overlay
- Option to exclude motion detection alarms from alarms database entries



Video Analytics

- · Video analytics on IR cameras and thermal cameras
- Support for video analytics on PTZ cameras, while the camera is in 'Home' position. Video analytics is automatically disabled when camera moves from the home position and video analytics is automatically started when camera is moved back to home position
- Seamless integration of video analytics module as video analytics is not a separate software application. No manual synchronization and maintenance is needed
- Dedicated video analytics screen to display analyzed videos from multiple cameras, with analytics meta-data overlay. Quick access to video analytics settings for each camera
- Independent video analytics settings for every camera
- · Easy to manage, tightly integrated simple user interface
- Enhanced algorithms which need only few parameters to be configured to get good results from video analytics in most of the deployment situations. Advanced parameters are available, to handle special situations
- · Local or remote processing of video analytics
- · Availability of wide range of standard analytics features
- · Intrusion detection
- · Wrong direction movement, detection
- · Line crossing / trip-wire
- Camera tamper / scene change detection
- · Crowd detection
- · Un-attended object detection
- · Queue length detection
- · Asset protection
- Loitering detection
- · Tailgating detection
- Object stopped detection
- People counting, Vehicles counting
- Object trace / travel path
- · Object speed calculation
- · Digital auto-tracking
- · Vibration removal
- Flexible architecture to quickly support customized video analytics features
- Option of project specific combined analytics on data generated by multiple external devices and video streams
- Option to use 3rd party video analytics libraries using their SDKs

Recording

- User configurable video resolution, frame-rate and bit-rate setting for each channel independent of other channels
- Ability to configure recording settings for a video channel group, with a single button click
- Multiple recording modes continuous, scheduled, alarm-based, combined 'scheduled and alarm based'
- Scheduled recording weekly schedule configuration with ability to select or de-select any hour within a week for recording
- Scheduled recording with day specific over-rides for up to 5 dates.
 The original weekly schedule remains unchanged, which eliminates the risk of accidental changes and eliminate maintenance activities.
- Pre-event and post-event recording up to 99 minutes
- Option for full FPS recording on alarm, and low FPS recording in non-alarm conditions, with pre-alarm and post-alarm period configuration up to 99 minutes
- · Operator activated recording

- · Audio stream recording
- Video overlay text
- Available disk space and expected recording time indicators
- · Recording history timeline
- · Watermarking on recorded video
- · Recorded data tampering detection
- Automatic storage space recycling, with user configuration for finer control on the recycling process
- User configurable thresholds for 'recycle start threshold', 'recycle stop threshold' and 'low disk space alarm threshold'
- Option to exclude data associated with alarms, during recycling operations
- Network time server synchronization
- · Multiple drives selection for recording
- All selected drives are used for recording simultaneously, to distribute the load. Each drive is processed independently
- Intelligent allocation of video channels to recording drives, to distribute the load and to maximize the recording duration for all cameras
- · Manual over-ride for recording drive selection for any camera
- Ability to re-assign recording drives for all cameras, at any stage
- Supports recording on local hard disks, USB storages, Direct-attached Storage (DAS), Network-attached storage (NAS), Storage Area Networks (SAN)
- Supports iSCSI
- Supports network shared drives
- Supports RAID configured storage devices
- Fail-over recording with fully automatic data synchronization
- · Redundant recording
- Option to use recorded data from video source (e.g. DVRs), and not recording it locally, to save bandwidth and storage space

Video Search

- Recorded data report for specified camera
- Any camera can be selected from the drop down menu
- Calendar displaying recorded data availability state for each day full data available, no data available, partial data available
- · Recording history timeline indicator
- 24 hour video history timeline indicating time periods for which recorded data is available
- Video timeline focus indicator with option to select focus duration interval. Quick access next interval and previous interval buttons
- Video timeline with 1 second interval indicating recorded video availability for each second
- Video playback synchronized with timeline indicators
- Option to use original aspect ratio for video display
- Click on recording history timeline to view associated video, with video navigation control – play, pause, rewind, fast forward, slow rewind, slow forward
- Indication on timelines for currently displayed video time
- · Quick access to multi-channel playback and video export
- Automated recording history cache creation for fast access to recording history information
- Option to manually re-create recording history cache for specified camera for specified duration

Playback

- Synchronized playback of multiple video channels, up to 64 video channels
- Synchronized audio playback with ability to enable / disable audio playback associated with every video channel being played back
- Video navigation play, pause, up to 16X fast forward and up to 16X rewind
- Slow speed playback fast forward and rewind, up to 0.25X
- Alarm based playback
- 'Go-to' specified video time
- Frame by frame playback previous frame and next frame
- Non-synchronized playback screen where each video can be played for independent video times

Video View Screens

- Separate live video screens and playback video screens
- · Tree view of video channels, sequences, external devices
- · Automatic linking of video channels from same video source
- Single click operation to switch to any of the linked channels
- Device groups
- Indicators for state of cameras and devices online / offline
- · Indicators for static cameras and PTZ cameras
- Indicators for recording status of every channel recording on, recording off, recording error
- Drag and drop camera selection for viewing
- · Double click on tree control item to view video
- Camera selection modes locked and un-locked. In un-locked mode first empty video container is selected for displaying the video
- · Virtual matrix operations
- · Patrolling mode
- Several screen layout options e.g. 1X1, 2X2, 3X3, 3X4, 4X4, 5X5, 5X6, 6X6, 7X7, 8X8, 1+5, 1+7, 1+9, 1+11, 1+12, 1+15, 1+16
- Page navigation within a layout
- Multiple video view screens (up to 14)
- Independent control of video view screen size and position on the monitors
- Independent layout settings for each video screen
- View up to 144 live videos and up to 64 playback videos in single video screen
- Option to maintain aspect ratio of the video stream during display (Display square pixels)
- · 'Hide user interface' / 'view videos only' mode
- Instant replay with user configurable instant replay time
- Compact layout button
- Time indication current time and video time
- · Quick access toolbar for each video window
- Several video overlay options with text font and color configuration support
- Advanced algorithms to use multiple video resolution streams from video sources for minimum resource utilization
- · Double click to view high resolution video
- Option to initialize the high resolution video window with currently displayed video stream, till high resolution video stream is available from the server / camera
- High resolution video window size control full screen or user defined size
- · Right click menu on each video for quick access to various features
- Image snapshot from live video and playback video

- · Copy image to clipboard
- · Add video bookmark
- Single click video export
- Single click video export for all videos displayed in the video screen
- Y-flip video control for every video
- · Quick switch to linked channel
- · Single click 'close all videos'
- · On-screen camera PTZ control using mouse
- Camera PTZ control window which can be moved to any desired location on the monitor
- Recording history calendar with access to video search screen
- · Quick access to video source information
- Quick access to digital operation configuration
- Quick access to camera PTZ, preset and tours control
- Multiple monitors support
- Option to select hardware acceleration for video display operations



Video Overlay Options

- Video overlay text color configuration
- · Camera name overlay
- Timestamp overlay
- Camera IP address overlay
- Bandwidth usage overlay
- Video resolution overlay
- Video frame rate overlay
- Recording state indicator overlay
- · Audio play state indicator overlay
- Video loss indication
- · Audio loss indication
- · Server disconnection indication
- Motion detection overlay with configuration for overlay level no overlay, only motion indicator, motion grids, full overlay

Video Screen Layout Profiles

- Layout profiles to configure different layouts on a single screen
- Layout profiles include the layout grid selection and camera selection for every video container
- Single click switching between layout profiles
- No limit on number of layout profiles that can be defined
- Layout profile sequences to change layout profile automatically after 'dwell time'
- Cyclic operation in layout profile sequence
- Pause layout profile sequence
- Move to next layout profile in the sequence

- · Move to previous layout profile in the sequence
- No limit on number of layout profile sequences that can be defined

Video Panorama (Video Stitching)

- Defining relative arrangement of videos from multiple cameras, to get a single stitched video view
- Simple configuration with 2 point association. Advanced algorithm to arrange the video orientation based on 2 point association input from user
- Video panorama for live video as well as for playback video
- Full video navigation control for panorama play, pause, fast forward, rewind, slow forward, slow rewind
- · Instant replay for panorama

Camera Control

- Camera pan tilt zoom control
- Camera PTZ speed control
- Camera PTZ auto zoom. User can select a rectangle and camera is zoomed to show the video for the selected rectangle
- PTZ priority setting for users, with PTZ lock time. Locks camera PTZ access for next user if another user with higher priority is controlling camera PTZ
- Move PTZ camera to home position
- On-screen camera PTZ using mouse
- Camera PTZ control window which can be moved to any desired location on the monitor
- Camera PTZ mode selection manual or automatic, for cameras which support camera PTZ mode selection feature
- · Iris control
- · Focus control
- Image parameters control color / black and white video, brightness, saturation, contrast, sharpness, hue
- Presets add, remove, go-to
- Preset image capture and display for better indication of camera position in that preset
- Tours add, modify, start, stop
- · Tour configuration by specifying presets and dwell time
- · Unlimited presets can be added to a tour
- Configure video stream parameters for every video channel independently
- Configure video stream parameters for a video channel group, with a single button click
- Configure on-screen display parameters for a video channel group, with a single button click
- Configure camera time for a video channel group, with a single button click
- Import camera names defined inside video sources to VMS; for a video channel group, with a single button click
- Export camera names defined inside VMS to individual video sources; for a video channel group, with a single button click

CCTV Keyboards and Joysticks

- Supports all standard USB joysticks and gaming controllers which are compliant with Microsoft Windows operating system
- Zoom direction configuration (zoom in and zoom out) with respect to joystick clock-wise or anti-clock-wise rotation, for uniform user experience independent of make and model of the joystick controller
- Supports CCTV keyboards

- Open platform architecture allows quickly supporting any new custom CCTV keyboard or Joystick
- Video screen selection
- Video camera selection in the selected video screen
- PTZ control of the selected video camera
- Communication status logs to assist during initial set up and maintenance

Digital Operations

- Digital PTZ
- On-screen digital PTZ using mouse
- Switch to home position (full video display) for digital PTZ
- Digital PTZ speed control
- · Digital PTZ on paused video
- Magnification glass with zoom and size control
- Interactive digital PTZ using mouse controls
- Digital PTZ auto zoom. User can select a rectangle and display is zoomed to show the video portion from the selected rectangle
- Digital auto-tracking. An object in the video is tracked by digitally zooming on it and continuously following it.
- Vibration removal
- Display-time (client-side) de-warping for 360 degree cameras

Users and Privileges

- · Multiple user levels and privileges
- · Built in standard privileges
- Ability to define custom privileges
- Ability to allow or dis-allow features for every custom privilege
- Ability to allow or dis-allow device group access for every custom privilege
- · Built in standard uses
- · Ability to define custom users
- Unlimited number of users can be added
- Ability to associate / change privilege for any user
- Unlimited number of users can be associated with a privilege
- · Ability to disable a user. Ability to delete a user
- · Administrator control to change password for any user
- User information registration e.g. name, address, phone number etc
- Active Directory integration

Video Export

- Quick export mode starts video export for selected camera and continues till user ends the playback. Default video export parameters are used for quick export mode
- Advanced export mode with all export parameters available for user configuration
- · Video export based on time duration or alarm
- · Export video for multiple cameras simultaneously
- Option for watermarking on exported video custom text, camera name, timestamp; with option to set watermark text color
- · Option to specify file name for exported video
- Standard format video export, exported video can be played in any standard media player like Windows Media Player
- Option to select the quality of video exported in standard format high quality and standard quality. This also allows controlling the file size of the exported video file
- · Native format video export along with player application

 Option to add password protection for native video export. The exported native video can be accessed only after providing correct password

Video Bookmarks

- Operators can quickly bookmark video from any camera, for a specific time-stamp, along with a comment
- Video bookmarks search to generate reports
- Search video bookmarks based on bookmark source, bookmark creator user, bookmark comment (with wild card search) and time duration
- Video bookmark search bookmark video display with video navigation controls for play, pause, fast forward, rewind, slow play and slow rewind
- Video bookmark search quick access to multi-channel playback and video export



Reports and Logs

- · Current session logs view
- Current session alarms view
- Detailed user logs, activity reports, system logs
- Search user logs to generate reports
- User logs search based on user and time duration
- Report includes details like activity description, along with IP address
 of the computer which initiated the activity
- · Alarms search to generate alarm reports
- Search alarms based on alarm type, alarm source, alarm name (with wild card search) and time duration
- Alarm search alarm video display with video navigation controls
- Alarm search quick access to multi-channel playback and video export associated with search results
- Export video for all alarms in the search result, with a single button click
- · Print logs and reports
- Save logs and reports in TXT, CSV or PDF formats
- PDF format reports include associated images embedded inside PDF file
- Automated daily reports creation and save
- Automated daily reports e-mailing
- · Print images
- Video bookmarks search to generate reports
- Search video bookmarks based on bookmark source, bookmark creator user, bookmark comment (with wild card search) and time duration
- Video bookmark search bookmark video display with video navigation controls
- Video bookmark search quick access to multi-channel playback and video export associated with search results

Status reports

- · Detailed status reports which indicate system state
- 'Save report' option for all status reports displayed in the software.
 These saved reports are useful in offline custom analysis of the site.
- Video channel availability online / offline status for all streams from each of the video channels
- · Recording status for all channels
- · Video analytics status for all channels
- Bandwidth utilization status for all streams from each of the video channels
- Storage space utilization graph view by video channel and time interval
- Video stream parameters resolution, FPS, bitrate etc for all streams from each of the channels
- User configurable parameters summary for all channels
- List of current client requests being processed by the server
- Phone network gateway communication status
- CCTV Keyboards and joysticks communication status

Interactive Maps

- Multiple map view screens
- Multi-level maps with hyperlinks for quick navigation between levels
- Static image maps support industry standard image formats like BMP and JPEG
- Multiple image support
- Dynamic maps Google Maps and Openstreet Maps
- Tree view of cameras and devices
- Drag and drop camera, device and video sequence selection
- · Camera and device indicators on map
- · Alarm indication on map
- Embedded live video display of multiple channels and sequences on map
- · Option for high resolution video view for any camera
- Option to send camera video to predefined video screen, which can be resized and positioned anywhere
- Field of view configuration for each camera direction, angle, range
- User configurable map overlay indicators static camera, PTZ camera, map link, video sequences, external devices
- User configurable map overlay text font, color, background color
- User configurable camera field of view indication for each camera on/off, color, fill mode
- Privilege function to enable / disable map settings configuration for a logged in user
- 'Lock settings' mode to test camera configuration, as an operator with no access to map settings
- Export map configuration to server as a map configuration template
- Import map configuration template from server, for quick synchronization of map settings between multiple clients
- · 'Hide user interface' mode
- · Digital PTZ for map image
- Interactive digital PTZ on map image using mouse, with PTZ speed control
- Map location presets add, edit, go-to
- Combining multi-level maps and map location presets, provides complete flexibility to define quick links to map view of any target region.

Surveillance Tasks

- Ability to configure one or more surveillance tasks which are performed as per the configured schedule
- Independent schedule configuration for every task. Schedule can be set as daily or weekly
- One or more surveillance tasks can be configured for same camera

User Interface

- · Multiple monitors and video walls support
- Virtual matrix operations
- · Video thumbnail display to identify the specified camera
- · Full screen view of any video channel
- Quick set up wizard for easy initial configuration
- All screens can be resized to custom sizes
- Single click 'Fit to screen size' support for all screens
- · Simultaneous functioning of all features
- View video channels as a list or as thumbnails
- · 'Reconnect to all cameras' button
- 'Save report' option for all lists displayed in the software. These saved reports are useful in offline custom analysis of the site.
- 'Lock server' to restrict un-authorized changes to server configuration
- Tree control displaying list of devices, also indicates the device state

 online / offline, recording ok / recording error, PTZ camera / fixed camera. Different images are displayed for each of these states for all devices listed in the tree control

Multi-Language Support

- · Supports multiple languages
- Advanced internationalization framework, to quickly support a new language
- Supported languages Arabic, Bengali, Bulgarian, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Filipino, Finnish, French, German, Greek, Haitian, Creole, Hebrew, Hindi, Hmong Daw, Hungarian, Indonesian, Irish, Italian, Japanese, Kannada, Korean, Latvian, Lithuanian, Marathi, Norwegian, Persian(Farsi), Polish, Portuguese, Portuguese(Brazil), Romanian, Russian, Slovak, Slovenian, Spanish, Swahili, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese

Data Management

- · Archiving or deleting older recorded data
- Manual data clean up
- Scheduled data clean up, with support for daily, weekly or monthly schedule and cleaning up data older than specified number of days
- Manual data archiving
- Scheduled data archiving, with support for daily, weekly or monthly schedule and cleaning up data older than specified number of days
- Video player application is available along with the archived data for accessing archived data
- · Offline data viewer screen for accessing archived data
- Option to exclude data associated with alarms, from clean up and archive operations
- Automatic storage space recycling, with user configuration for finer control on the recycling process
- User configurable thresholds for 'recycle start threshold', 'recycle stop threshold' and 'low disk space alarm threshold'
- · Option to exclude data associated with alarms, during recycling

- operations
- User activity logs recycling, with user configurable options to control the recycling process

Network Configuration

- Support for configuring 3 types of networks as completely independent networks – input network, output network and storage network; to allow fully flexible network design
- Input network is network connecting cameras and the server computer, Output network is the network connecting the server computer and the client computer(s), Storage network is the network connecting the server computer and the storage device(s)
- Allows keeping input network completely free of network bandwidth utilization fluctuations due to client connections. Input network always has calculated network utilization and ensures reliable video capture from cameras.
- Allows keeping storage network completely free of network bandwidth utilization fluctuations due to client connections. Storage network always has calculated network utilization and ensures reliable data storage
- User configurable IP address selection for input network and output network
- If IP address is not available / valid, when server software is executed; it automatically switches to the available IP address, and gives notification



Fail-safe Operation

- · Watchdog to continuously monitor application health
- Automatic saving all settings including user interface settings, screen sizes, screen location across multiple monitors
- Automatic full system restore after unexpected events like power loss
- · System diagnostics parameters display
- · Fully distributed architecture with no single-point failure
- Automatic optimization to lower resource usage, after the settings are done
- One click import and export of all settings for back up or for replicating the same set up on another computer
- Failover management server
- Redundant recording server
- Automated application maintenance and computer maintenance
- · Designed to work 24X7 without requiring human inputs

Client Applications

- · Standard server-client architecture
- Encrypted data communication between server and clients
- Support for port forwarding to support remote clients, when server computer is behind NAT
- · User configurable 'Site name' to easily identify each site / server
- Automatic time synchronization with server computer
- Windows PC client for operator workstations
- Integrated web server which supports HTTP client support for standard browsers Internet Explorer, Mozilla FireFox, Google Chrome, Apple Safari
- Smart Phone client, with real time alert notification with sound alarm, and ability to view alert camera video
- Support for Apple Safari browser on iPhone and iPad, as HTTP client
- Settings to control video quality and bandwidth utilization for HTTP client and Smart Phone client video requests

Workstation Client Application

- Windows PC client application for operator workstations, which supports full operator features like viewing, browsing, report generation
- · Connect to server using IP address or server computer domain name
- Can connect to server software running on a computer in same network as client computer
- Can connect to server software running on a computer which is behind NAT and available through port forwarding
- · Client software can be download from server URL
- Automatic version check and client software version upgrade, if required
- 'Site book' feature which can list multiple servers with the connection information. Without typing complete connection information every time, client can quickly connect to a server available in the site book
- Multi-site monitor connect to multiple servers and view combined data
- Simultaneously view live videos from multiple servers
- Simultaneously view time synchronized playback videos from multiple servers
- Automatic time synchronization between multiple connected server computers
- Quick configuration wizard for one time configurations
- Multiple screens concept which includes one main screen and

- optional one or more additional screens
- Main screen has compact user interface, including tree control listing all devices, camera control console, video display layout, alarms history list, alarm acknowledgement console and menus to access various client functions
- Option to set main screen as live video screen or playback video screen
- Alarms history list supports right click menus to quickly export alarm video, to display alarm video in playback video screen, to clear alarms list
- · Supports multiple monitors
- Ability to configure number of live video screens, number of playback video screens, number of map screens, maximum number of cameras in a live screen and maximum number of cameras in a playback screen – to control resources utilization and restricting operators for performing operations which may affect resource utilization
- Client specific CCTV keyboard and joystick configurations
- · Client specific alarms handling configuration
- Option to reset server features and server application from client application, if privileges are available for the user logged in to the client application

Failover Management

- Failover management server which can monitor one or more main servers – supports 1:1 failover configuration and 1:N failover configuration
- Fully automated failover operations, no human inputs are needed after one time failover management configuration is done
- Automated VMS configurations synchronization between failover server and main servers
- When one of the monitored main server fails, processing is switched to the failover management server
- Client applications are redirected to failover server automatically
- When main server is online, processing is switched back to main server. Failover server starts monitoring all the main servers again
- Client applications are redirected to main server automatically
- Data recorded during failover processing is synchronized with main server automatically; with best possible bandwidth utilization for the synchronization operation to ensure primary VMS activities are not affected
- Failover management server can be configured in 2 modes shared storage and non-shared storage
- In case of shared-storage, the physical location of the storage is shared between the failover server and the main server, hence no data synchronization is needed after failover processing cycle
- Some of the storage devices do not support shared access to the storage space from 2 computers. Non-shared storage mode is used in these cases

Redundant Recording

- Redundant recording server can be associated with every main server
- Fully automated redundant recording operations, no human inputs are needed after one time configuration is done
- Automated VMS configurations synchronization between redundant recording server and main server

 Redundant recording server replicates the main server and runs as a copy of main server and ensures that copy of recording is available all the time

Calculators and Tools

- Storage space calculator
- · Storage throughput test application
- · Bandwidth requirement calculator
- · Network throughput test application
- · Computer resource monitoring and reporting tool
- · Camera ping / availability test tool
- · Camera parameters manager tool
- VMS health check and reporting tool
- · VMS resource configuration manager tool
- · Diagnostic check tool, with auto repair functionality

Quick and Smooth Deployments

- Simplest and fool-proof software installation, with all dependencies automatically detected and communicated to the user
- No external software dependency, hence no synchronization and maintenance for external softwares
- Integrated single server application which includes all components video management, hybrid NVR/DVR, video analytics, video streamer and gateway
- · Simple and intuitive user interface
- Advanced user interface options to fulfill deployment site specific requirements
- Minimal learning curve for first time users. No formal training required
- · Quick configuration wizards
- System notifications window which indicates warning and errors for situations which need attention. Some notifications are user acknowledgeable and some are not. Notifications are automatically removed when warning / error condition is resolved
- Computer resources monitoring and reports generation in form of graphs and tables.
- Resource monitoring includes total CPU utilization, CPU core
 utilization for all cores, memory utilization, network utilization, hard
 disk utilization, number of threads, number of handles, number of
 GDI objects, CPU utilization by the VMS application, hard disk space
- Advanced resource utilization fine tuning options to handle all deployment situations
- Advanced background operations priority configuration options, to ensure main VMS operations always get highest priority and have required resources available all the time
- Diagnostic check tool which analyzes the software configuration, computer configuring and complete system, to suggest possible improvements
- Automated application maintenance and computer maintenance
- · Automated daily back up of configuration, on storage drive

Integration & SDK

- Security management System Client SDK for other software systems to communicate with VMS. This SDK can be used to create a full featured customized client software
- Security management System Client SDK versions OCX SDK and C++ SDK
- OCX SDK provides ActiveX control which can be embedded in any Windows application including .Net applications, native VC++ applications, web pages etc for quick integration and video access from external systems
- Basic functional integration using OCX SDK requires calling only 1
 method from ActiveX control, hence integration can be realized very
 quickly. Based on the calling application's requirements, other
 methods can be integrated for further control of the ActiveX
- Security management System Alarm Communication SDK for integrating external devices. The external device manufacturer can use this SDK to send alarms to the VMS
- Security management System Image Access API to query live or recorded image from any camera available in the Security management System
- Security management System XML Based Alarm Communication API

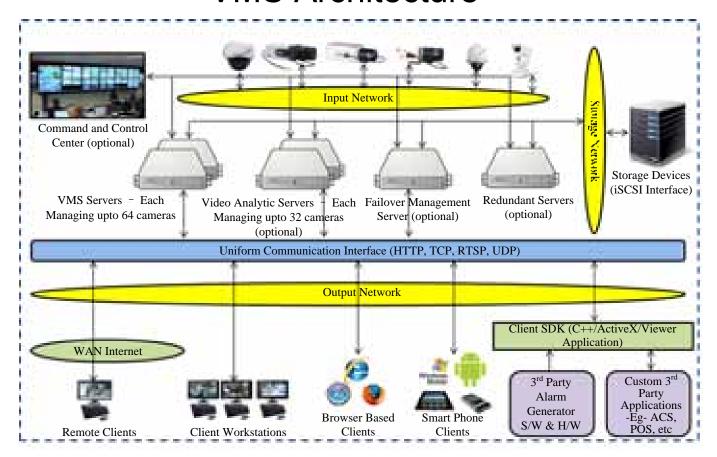
 for integrating external devices. The external manufacturer can use
 this SDK to send alarms to the VMS
- Security management System Remote Configuration SDK

Hardware Requirements

- Minimum hardware requirement for server software Intel P4 processor, 2GB RAM, 200 GB hard disk space for 32 channels system
- Minimum hardware requirement for client software Intel P4 processor, 2GB RAM, 1GB graphics card, 200 GB hard disk space for 32 channels system.
- Operating System Windows XP (SP3), Windows Vista, Windows 7, Windows 8, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012

Supports both 32 bit and 64 bit Windows OS versions

VMS Architecture



- · Open platform system
- · Fully distributed architecture
- Integrated single server application which includes all components video management, hybrid NVR/DVR, video analytics, video streamer and gateway
- · No single point failure. System continues to function even if all other servers go offline and single server is active
- · Built-in video analytics module with seamless user interface
- Advanced algorithms to use multiple resolution streams supported by the cameras for automated system optimization and minimum resource utilization
- Optimized for multi core processors
- · Scalable and expandable architecture. Cameras, server and clients can be added without affecting existing functional system.
- · Fully backward compatible software upgrades

V3070-8 Series Network Video Recorder





- H.264 high quality decoding
- Up to 16-ch D1/720P/1080P video recording
- IP channel supports protocols self-defined
- 1 VGA and 1 HDMI HD video outputs, supporting synchronizing VGA/HDMI outputs
- 16-ch D1/720P or 8-ch 1080P videos simultaneous playback
- Digital zoom in live view and playback
- Support for searching, playback and backup of the videos based on events
- Support for images local playback and searching
- Audios and alarms
- Functions of user management, storage, network monitoring, multi-screen display mode
- Transparent Transmission interfaces like RS232 (RS-422), RS485 (RS-485)
- Remote NVR configuration and priority management via Ethernet
- Records stored to defined devices or memory
- 8 SATA interfaces, up to 32TB
- Flexible backup via network, USB2.0 or eSATA interfaces

V3070-8 series are high performance Network Digital Video Recorders (NVR). The NVR features local preview, video multi-screen display, and real-time local storage of the records. The NVR supports easy operations via mouse and tele-controller, with remote management and control functions.

V3070-8 supports both centralized and distributed storage deployments. The front-end monitoring points can be at any places in the network, without area limitations. The NVR, networking with other front-end cameras, network video servers and with the assistance of professional video surveillance software, can form a powerful security surveillance system. In the network of V3070-8 series, the center and monitoring points can be connected by one network cable, no video cable, audio cable needed, which makes the installation easier, reducing the wiring and maintenance cost. V3070-8 series can be widely used in public security, water conservancy, traffic, education etc. fields.

Video	
Video Compression	H.264
Decoding Capability	Maximum 16*D1/720,or 8*1080P
Video Input	16 IP compressed video inputs
Video Output	1-ch VGA analog video output
HD Media Output	1-ch HDMI video output
Multi-screen Display	1/4/8/9/16 multi-screen display
Playback	Max. 16-ch synchronous playback
Audio	
Audio Compression	G.711A
Audio Input	1-ch audio input
Audio Output	1-ch audio output
Alarm	
Alarm Input	16-ch alarm inputs
Alarm Output	6-ch alarm outputs;
	Relay output, relay (DC 30V/1A, AC 125V/0.5A
	(associated output)), one controllable DC +12V
	output
Port	
RS232 Serial Port	1*RS232 serial port for debugging and data
(RS-422)	transparent transmission
RS485 Port (RS-485)	1*RS485 port for control of the PTZ camera
	control system, supporting multi-protocols
USB Port	4*external USB2.0 ports
Network Port	2*RJ45 10/100/1000Mbps Ethernet port,
_	self-adaptive
Storage	
SATA	8 built-in SATA interfaces, each up to 4TB
eSATA	1 external eSATA interface
Others	

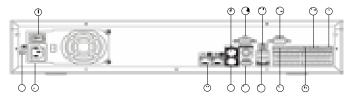
Power Switch	1 power switch, on rear panel		
Power Button	1 power button, on front panel		
IR Tele-control	1 Infrared tele-control receiving eye, on front		
Receiving Eye	panel		
Clock	Built-in real-time clock		
Indicator	16 recording status indicators, 1 system		
	running status indicator, 1 tele-controller		
	indicator		
Operational			
Operating System	Embedded Linux operating system		
System Resources	Maximum access bandwidth 160M;		
	Maximum transfer bandwidth 128M;		
	Support 20 users login at the same time, with		
	each channel access time delay controlled in		
	500ms.		
Operating Interface	WEB, GUI		
Electrical			
Power Input	1 power port, AC100-240V 50+2% Hz		
Power Consumption	<40W (No hard disk)		
Mechanical			
Dimension	17.3" × 18.1" × 3.5"		
	(440mm × 460mm × 89mm)		
Weight	12.13lbs ~ 14.3lbs		
	(5.5kg ~ 6.5kg) (No hard disk)		
Mounting	Desktop		
Environmental			
Working Temperature	32°F ~ 122 °F (0°C ~ 50°C)		
Working Humidity	10% ~ 90%		
Atmosphere	86kpa ~ 106kpa		

Ordering Information

V3070 Series 16 Channel Network Video Recorders						
V3070-8	Embedded Network Video Recorder, Support up to 16 Channels (1080P/720P/D1) of Video Recording, No					
	hard disks					
Hard Disks Ordering Information						
V3091-2000-W	SATA HD, 2TB					
V3091-3000-W	SATA HD, 3TB					
V3091-4000-W	SATA HD, 4TB					

Panel View

Rear Panel View



Power Switch
 Power Input
 eSATA Port
 Audio Input
 USB2.0 Port
 Audio Output
 RS232 Serial Port
 Alarm Input
 Alarm Output
 VGA Video Output

7. Grounding Terminal 15. CTRL 12V (Controllable 12V Output)

8. RS485 Communication Port

Analog Product Family



V5111-A2 & V5112-A2 Series



















- 1/3" SONY HAD CCD sensor
- Resolution: 480 TVL
- Electronic Day/Night functionality (V5111-A2 series)
- Automatic Day/Night functionality with ICR filter (V5112-A2 series)
- High sensitivity, anti-blooming and S/N ratio
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Auto White Balance/Manual White Balance (ATW/ MWB), Flickerless (F.L.), Backlight Compensation (BLC)
- Back Focus adjustment
- Supports both DC-Drive and VIDEO-Drive lens
- LEVEL adjustment
- 12VDC/24VAC power supply

V5111-A2 & V5112-A2 series fixed cameras feature a high resolution 1/3" SONY HAD CCD sensor. Advanced Digital Signal Processing (DSP) provides 480 TV lines of resolution and excellent S/N ratio of more than 48 dB.

The V5111-A2 series have electronic Day/Night functionality. While the V5112-A2 series have automatic Day/Night functionality thanks to built-in ICR filter. High quality images with the smallest details are available even in low light conditions. These cameras are the perfection solution for a 24x7 around-the-clock surveillance.

The V5111-A2 & V5112-A2 series cameras are made of aluminum alloy construction and have an operating temperature of 14°F $^{\sim}$ 122°F (-10°C $^{\sim}$ 50°C). These cameras are the ideal surveillance solution for shopping malls, banks, office buildings, parking lots, city streets and other applications.

Image Sensor	1/3" SONY HAD CCD
Effective Pixels	NTSC: 768(H) × 494(V); PAL: 752(H) × 582(V)
Scanning System	2:1 interlacing
Resolution	480 TVL
Sensitivity	V5111-A2: Color mode: 0.5 lux @ F1.2 (30IRE, AGC ON), B/W mode: 0.3 lux @ F1.2 (30IRE, AGC ON); V5112-A2: Color mode: 0.5 lux @ F1.2 (30IRE, AGC ON), B/W mode: 0.02 lux @ F1.2 (30IRE, AGC ON)
S/N Ratio	> 48 dB (AGC OFF)
Auto Electronic Shutter	ON/OFF, NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Auto Iris	DC Drive or VIDEO Drive
Lens Mount	C or CS mount (adjustable)
Gamma Correction	0.45
White Balance	ATW/MWB
Color Temperature Range	2400K~8000K
Auto Gain Control	ON/OFF
Backlight Compensation	ON/OFF

Flickerless Mode	ON/OFF, NTSC: 1/100s, PAL: 1/120s	
Sync. System	Internal/ Line Lock	
Video Output	1.0 Vp-p (75 Ohm), BNC connector	
Power Supply	12 VDC/24 VAC	
Power Consumption	V5111-A2: 4W (maximum); V5112-A2: 5W (maximum)	
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)	
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)	
Operating Humidity	0~90% RH (non-condensing)	
Unit Dimensions (H×W×L)	2.36" x1.97" x 5.12" (60 mm × 50 mm × 130 mm)	
Box Dimensions (L×W×H)	7.28" × 4.13" × 3.78" (185 mm × 105 mm × 96 mm)	
Unit Weight	0.79 lbs. (0.36 kg)	
Shipping Weight	1.10 lbs. (0.50 kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B ² , ISO 9001:2008	

Certificate No.: 1 BCT10LC-2145E; 2 BCT10LC-2146E.

Ordering information

V5111-A2004	Analog fixed camera, 1/3 inch CCD, Electronic day/night,
	480TVL. NTSC. 12VDC/24VAC

V5111-A2014 Analog fixed camera, 1/3 inch CCD, Electronic day/night,

480TVL, PAL, 12VDC/24VAC

V5112-A2004 Analog fixed camera, 1/3 inch CCD, Day/night,

480TVL, NTSC, 12VDC/24VAC

V5112-A2014 Analog fixed camera, 1/3 inch CCD, Day/night,

480TVL, PAL, 12VDC/24VAC

RECOMMENDED ACCESSORIES

For V5111-A2, Vari-Focal Lenses – (Fixed and Zoom Lenses are also available)

V1122-308	Lens, f=3.0-8mm, F/1.0, DC auto iris, 1/3 inch, CS
V1122-2812	Lens, f=2.8-12mm, F/1.4, DC auto iris, 1/3 inch, CS
V1122-550	Lens. f=5-50mm, F/1.4. DC auto iris, 1/3 inch, CS

For V5112-A2, Vari-Focal IR Lenses – (Fixed and Zoom Lenses are also

available) V1132-3085

Lens, IR correction, f=3.0-8.5mm, F/1.0, DC auto iris,

1/3 inch, CS, Aspherical

V1132-2812 Lens, IR correction, f=2.8-12mm, F/1.2, DC auto iris,

1/3 inch, CS, Aspherical

V1132-7550 Lens, IR correction, f=7.5-50mm, F/1.3, DC auto iris,

1/3 inch, CS, Aspherical

Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120 VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230 VAC

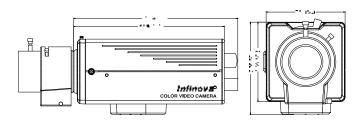
Indoor Adjustable Mounts for Ceiling and Wall

V1551-7 Fixed camera direct mount; 7 inch
V1551-10 Fixed camera direct mount; 10 inch

Indoor/Outdoor Wall Mount Housings are available

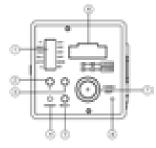
V1400 Series Fixed Camera Housing, Optional Heater and Blower

Dimensions



(Unit: inch, in the parentheses is mm)

Back panel



- (1) DIP Switch
- (2) Color Temperature (Red)/Phase-Adjust Key
- (3) Color Temperature (Blue)/Phase + Adjust Key
- (4) Power LED Indicator
- (5) Reset
- (6) Power Input Terminal
- (7) Video Output
- (8) Anti-falling Screw

V5131-A7 & V5132-A7 Series



Mini High-resolution Electronic Day/Night & Day/Night Camera





- 1/3" SONY high-resolution Exview HAD II CCD sensor
- Resolution: 700TVL
- Electronic Day/Night functionality (V5131-A7 series)
- IR-Cut Removable (ICR) Filter for Day/Night switching, settable multiple DAY/NIGHT modes (V5132-A7)
- Compact structure and elegant appearance
- Multi-language OSD menu for easy video parameter adjustment
- 2D digital noise reduction, with high S/N ratio
- Highlight Compensation (HLC)
- Motion detection
- Privacy mask
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Backlight Compensation (BLC)
- Superior color rendering with high definition
- Multiple white balance modes for complicated illumination
- Image mirror
- 12VDC/24VAC power supply

Infinova's V5131-A7 & V5132-A7 series are recently launched mini high-resolution cameras, featuring a high resolution 1/3" SONY Exview HAD II CCD sensor. Advanced Effio Digital Signal Processor (DSP) provides 700 TV lines of resolution and excellent S/N ratio of more than 54dB. Excellent low light performance, superior color rendering ability and digital noise reduction function ensures these cameras provide you with high-quality images even in low light conditions.

Privacy mask and motion detection are available. Users can set up to four masks during surveillance so as to protect the private areas from being seen by operators.

These cameras offer user-friendly OSD menu, which makes it easy to adjust the video parameters; elegant appearance, compact structure and ease of installation make it an ideal surveillance solution for shopping malls, banks, office buildings, parking lots, city streets and other applications.

Image Sensor	1/3" SONY Exview HAD II CCD
Video System	NTSC/PAL
Effective Pixels (H×V)	NTSC: 976×494, 480K; PAL: 976×582, 570K
Scanning System	2:1 interlacing
Resolution	700TVL
Day/Night Functionality	V5131-A7: Electronic Day/Night; V5132-A7: ICR
Sensitivity	V5131-A7: 0.1 lux @ F1.2 (50IRE, AGC HIGH); V5132-A7: Color mode: 0.1 lux @ F1.2 (50IRE, AGC HIGH), B/W mode: 0.005 lux @ F1.2 (50IRE, AGC HIGH)
S/N Ratio	>54dB (AGC OFF)
Video Output	1.0Vp-p, BNC connector
Auto Electronic Shutter	AUTO; MANU: NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Iris Control	Manual/Auto
Auto Iris	DC Drive/VIDEO Drive
Lens Mount	C/CS mount (adjustable)
Gamma Correction	0.45
White Balance	ATW/PUSH/USER 1/USER 2/ANTI-CR/ MANUAL/PUSH LOCK
Color Temperature Range	1800K~10500K

Auto Gain Control	Available, 0~42dB (8-level adjustable)	
BLC/HLC	Available	
Privacy Mask	4 programmable masks	
Motion Detection	4 programmable areas	
Picture Adjustment	Horizontal Mirror, Brightness, Contrast, Sharpness, Hue, Color Gain	
Noise Reduction	2D	
Sync. System	Internal/Line Lock	
Video Output	1.0 Vp-p (75 Ohm), BNC connector	
Power Supply	12VDC/24VAC	
Power Consumption	4W (Max)	
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	
Humidity	0~90% RH (non-condensing)	
Unit Dimensions	2.13"×2.68"×3.39"	
(H×W×L)	(54mm×68mm×86mm)	
Box Dimensions	5.12"×4.33"×3.93"	
(L×W×H)	(130mm×110mm×100mm)	
Unit Weight	0.57lbs. (0.26kg)	
Shipping Weight	0.73lbs. (0.33kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001:2008	

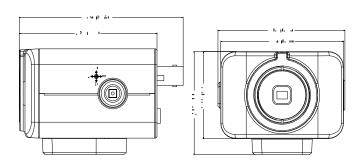
Certificate No.: ¹CTL1404150726-EC; ²CTL1404150726-FC.

Ordering information

V5131-A7104	Mini analog fixed camera, 1/3 inch CCD,
	Electronic day/night, OSD, 700TVL, NTSC,
	12VDC/24VAC
V5131-A7114	Mini analog fixed camera, 1/3 inch CCD,
	Electronic day/night, OSD, 700TVL, PAL,
	12VDC/24VAC
V5132-A7104	Mini analog fixed camera, 1/3 inch CCD, Day/night,
	OSD, 700TVL, NTSC, 12VDC/24VAC

V5132-A7114 Mini analog fixed camera, 1/3 inch CCD, Day/night, OSD, 700TVL, PAL, 12VDC/24VAC

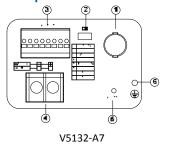
Dimensions



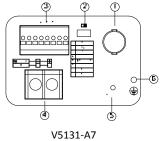
(Unit: inch, in the parentheses is mm)

Parts

Back panel



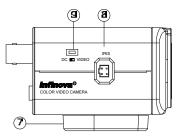
(3) Input/Output Port

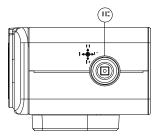


(4) Power Input Terminal

- (1) Analog Video Output (2) Sync DIP Switch
- (5) Power LED Indicator (6) GND

Side panel





- (7) Camera Mounting Block
- (9) Lens Drive Selection
- (8) Auto Iris Port
- (10) OSD Button

Pin Definition of (3) Input/Output Port

Pin	Mark	Functions
1	V5132: DN_IN	External input signal for day/night status control
	V5131: NC	Reserved
2	V5132: GND	Grounding
	V5131: NC	Reserved
3	V5132: DN_OUT	Output signal of day/night status
	V5131: NC	Reserved
4	GND	Grounding
5	MD_ALM	Motion detection alarm output signal
6	GND	Grounding
7	NC	Reserved
8	NC	Reserved

V5134-A7 Series

Mini High-resolution WDR Day/Night Camera







- 1/3" SONY Super HAD II CCD sensor
- Resolution: 700TVL
- Super wide dynamic range: 75dB
- IR-Cut Removable (ICR) Filter for Day/Night switching, automatically controlled or externally controlled
- 2D/3D digital noise reduction, with high S/N ratio
- Privacy Mask, Motion Detection Alarm
- Image Freeze and Flip function available
- Electronic stabilizer
- Highlight Compensation (HLC)
- Auto Electronic Shutter (AES), Auto Gain Control (AGC),
 Auto Tracking White Balance (ATW), Auto Iris control
- Digital Slow Shutter (DSS)
- OSD menu for easy video parameter adjustment
- Supports RS-485 remote control, with protocols auto-sensing
- Compact structure and elegant appearance

V5134-A7 series are recently launched mini WDR day/night cameras, featuring a high-sensitivity 1/3" SONY Super HAD II CCD sensor. Advanced Digital Signal Processor (DSP) provides 700 TV lines of resolution and excellent S/N ratio of more than 65dB. These cameras provide enhanced color, clarity and details under extremely challenging lighting conditions.

In addition, advanced DSS (Digital Slow Shutter) technology effectively improves the low light performance. User-friendly OSD menu is offered for easy camera parameters adjustment; motion detection alarm function is also available for improvement of use efficiency of surveillance system; moreover, 15 programmable spherical privacy zones are provided for effectively protecting the private scene.

V5134-A7 series have the Day/Night functionality, with the day/night switching modes settable for 24-hour consecutive monitoring.

Besides, such parameters as auto gain control, backlight compensation, image mirror, CCD blemish, electronic stabilizer and E-ZOOM can be adjusted for best video view.

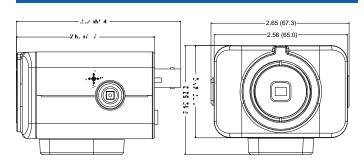
Image Sensor	1/3" SONY Super HAD II CCD
Video System	NTSC/PAL
Effective Pixels	NTSC: 976(H) × 494(V), 480K; PAL: 976(H) × 582(V), 570K
WDR	75dB
Resolution	700 TVL
Sensitivity	Color mode: 0.01 lux@ (F1.2, AGC ON); B/W mode: 0.001 lux@ (F1.2, AGC ON)
S/N Ratio	>65dB
Video Output	1.0Vp-p, BNC connector
Picture Adjustment	Brightness, Sharpness, Hue, Saturation
Gain Control	Auto; Manual: 6dB, 12dB, 18dB, 24dB, 30dB, 36dB, 42dB, 45dB
Day/Night Modes	Auto, Color, B/W, External Trigger
White Balance	AWB/ATW/USER 1/USER 2/ANTI-CR/ MANUAL/PUSH LOCK
Privacy Mask	On/Off, position setting, up to 15 areas
Motion Detection	On/Off, position setting, up to 4 areas, with alarm out
Backlight Compensation	On/Off
Digital WDR	On/Off
Flickerless Mode	On/Off
Electronic Shutter	AUTO; MANU: NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Auto Iris	DC Drive/VIDEO Drive
Lens Mount	C/CS mount (adjustable)
Color Temperature Range	1800K~10500K
Electronic Zoom	X256

V5134-A7104	Mini analog WDR fixed camera, 1/3 inch CCD,
	Day/night, OSD, 700TVL, NTSC, 12VDC/24VAC
V5134-A7114	Mini analog WDR fixed camera, 1/3 inch CCD,
	Day/night, OSD, 700TVL, PAL, 12VDC/24VAC

ACCESSORIES Power Supplies

N3921-24A-1	Power Supply, 24VAC, 20VA, Plug-In, 120VAC
N3921-24A-2	Power Supply, 24VAC, 20VA, Plug-In, 230VAC

Dimensions

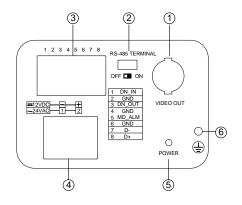


(Unit: inch, in the parentheses is mm)

DSS	X512
DNR	3D/2D
Image Mirror	H-FLIP/V-FLIP /H+V-FLIP
Image Freeze	On/Off
Camera ID	Character settings (up to 52 characters allowed), position adjustment
Blemish Compensation	CCD
RS485 Remote Control	Protocols: INFINOVA, PELCO-P/D; Baud Rate: 2400/4800/9600bps; Address: INFINOVA protocol supports up to 127 addresses, PELCO-P/D protocol supports up to 254 addresses
Sync. System	Internal/Line Lock
Power Supply	12VDC/24VAC
Power Consumption	4W (Max)
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Humidity	0~90% RH (non-condensing)
Unit Dimensions	2.13"×2.68"×3.39"
(H×W×L)	(54mm×68mm×86mm)
Box Dimensions	5.12"×4.33"×3.93"
(L×W×H)	(130mm×110mm×100mm)
Certifications and A	pproval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class B ² ISO 9001-2008

Certificate No.: ¹CTL1406251448-EC; ²CTL1406251448-FC.

Back panel



Subpart B Class B², ISO 9001:2008

- (1) Video Output
- (2) RS485 Terminal DIP Switch
- (3) Input/Output Port
- (4) Power Input Terminal
- (5) Power LED Indicator
- (6) GND

V1242 Series Day/Night Zoom Camera

























- 1/4" SONY CCD
- Digital Signal Processor (DSP) chip-set for image control
- 22X/30X/23X/36X optical zoom, digital zoom available
- Excellent low light illumination
- High sensitivity, high resolution, and high S/N ratio
- Auto Electronic Shutter (AES), Auto/Manual Iris, Auto/Manual Focus, Auto/Manual Gain Control
- Multiple White Balance modes
- Backlight Compensation (BLC)/Highlight Compensation (HLC)
- Supports WDR
- Supports noise reduction
- Motion detection
- Up to 8 definable privacy masks
- Supports RS485 remote control, with protocol and baud rate auto-sensing
- Supports camera title setting, up to 13 characters
- English/ Chinese OSD menu optional
- 12VDC/24VAC power supply

Infinova's V1242 series zoom camera employs high resolution CCD and Digital Signal Processor (DSP) chip-set for image control, which provides clear high-resolution images and perfect function. Focal length and focusing are adjustable via the buttons on the back panel of the camera. And special functions, such as white balance, auto gain, backlight compensation and day/night switching can be performed via the menu.

The lens control input interface is built in the camera to be used with decoder and matrix switcher. It is also compatible with INFINOVA, PELCO-P/D protocols. The camera can be directly controlled through the RS485 interface to achieve multi-level and long-distance communications.

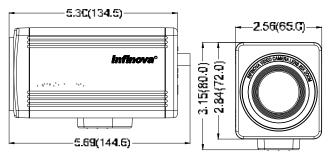
	V1242-22A, V1242-23A, V1242-30A,
Model	V1242-36A
Optical Zoom	22X, 23X, 30X, 36X
Zoom Speed	V1242-22A: <3s V1242-23A: 1.6s V1242-30A: <3.5s V1242-36A: 5.7s
Digital Zoom	V1242-22A: 20X V1242-23A: 16X V1242-30A: 20X V1242-36A: 20X
Video Type	PAL (D/N)
Scanning System	2:1 Interlaced scanning
Image Sensor	1/4" CCD
Effective Pixels (H×V)	V1242-22A: 976 × 582 V1242-23A: 752 × 582 V1242-30A: 976 × 582 V1242-36A: 976 × 582
Lens	V1242-22A: F1.4~close, f=3.9~86.6mm V1242-23A: F1.6~close, f=3.5~80.5mm V1242-30A: F1.4~close, f=3.3~99.4mm V1242-36A: F1.4~F4.2, f=3.3~119mm
Angle of View (Horizontal)	V1242-22A: 49.16° (WIDE)~ 2.38° (TELE) V1242-23A: 55.5° (WIDE)~ 1.83° (TELE) V1242-30A: 57.25° (WIDE) ~ 2.08° (TELE) V1242-36A: 60.2° (WIDE) ~ 1.7°(TELE)
M.O.D	V1242-22A: 10cm (WIDE) ~ 150cm (TELE) V1242-23A: 150cm (TELE) V1242-30A: 10cm (WIDE) ~ 150cm (TELE) V1242-36A: 10cm (WIDE)
Sensitivity	V1242-22A: Color mode:0.18Lux (F1.4, 50IRE); B/W mode:0.05Lux (F1.4, 50IRE) V1242-23A: Color mode: 0.12Lux (F1.6, 50IRE);B/W mode: 0.06Lux (F1.6, 50IRE) V1242-30A: Color mode:0.30Lux (F1.4, 50IRE);B/W mode: 0.08Lux (F1.4, 50IRE) V1242-36A: Color mode: 0.22Lux (F1.4, 50IRE, AGC_HIGH) (typical); B/W mode: 0.05Lux(F1.4, 50IRE, AGC_HIGH) (typical)
Horizontal Resolution	V1242-22A: 650TVL; V1242-23A: 560TVL V1242-30A: 650TVL; V1242-36A: 650TVL
S/N Ratio	V1242-22A: >62dB; V1242-23A: >62dB V1242-30A: >62dB; V1242-36A: >62dB
Sync System	Internal
Video Output	1.0 ±0.2Vp-p Composite (75 Ohm), BNC connector
Focus	Auto/Manual, focus speed adjustable
Iris	Auto/Manual
Shutter Speed	Auto/Manual
Gain Control	Auto/Manual
NR	2D (22A, 36A); 2D/3D (22A, 30A)

BLC	V1242-22A: OFF/BLC/HLC V1242-23A: OFF/BLC/HLC V1242-30A: OFF/BLC/HLC V1242-36A: OFF/BLC-M/BLC-H
DSS	V1242-22A: X2~X128; V1242-23A: X2~X512 V1242-30A: X2~X128 V1242-36A: X1~X512
Stabilizer	V1242-22A: ON/OFF V1242-23A: / V1242-30A: ON/OFF V1242-36A: ON/OFF
WDR	Available
White Balance	ATW/ONE PUSH/MANU/INDOOR/OUTDOOR
Motion Detection	Available
Privacy Mask	Available, up to 8 masks
Image Set	Brightness, contrast, saturation and sharpness adjustment
RS485 Control	Protocol: INFINOVA/ PELCO-P/ PELCO-D/ AUTO
	Camera ID: 1~255
	Baud rate: 2400/4800/9600/19200bps/AUTO
OSD	English/ Chinese OSD menu optional
	Supports camera title setting, up to 13 characters
Power Supply	12VDC/24VAC
Power Consumption	V1242-22A: < 3W V1242-23A: < 4W V1242-30A: < 3W V1242-36A: < 3W
Operating Temperature	14°F ~ 122°F (-10°C~+50°C)
Storage Temperature	-4°F ~ 140°F (-20°C~+60°C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions	3.15"×2.56"×5.69"
(H×W×L) Box Dimensions	(80mm×65mm×144.6mm) 7.68"×4.72"×3.94"
(L×W×H)	(195mm×120mm×100mm)
	V1242-22A: 1.16lbs(0.527kg)
	V1242-23A: 1.15lbs(0.523kg)
Net Weight	V1242-30A: 1.21lbs(0.550kg)
	V1242-36A: 1.27lbs(0.575kg)
	V1242-22A: 1.43lbs(0.647kg)
Transportation	V1242-23A: 1.42lbs(0.643kg)
Weight	V1242-30A: 1.48lbs(0.670kg)
	V1242-36A: 1.53lbs(0.695kg)
Certifications ar	, 0,
	CE/EMC: EN 55022, EN 55024, EN 61000-3-2,
Product Certifications	EN 61000-3-3 ¹ , FCC PART 15 Subpart B Class A ² , ISO 9001:2008

Ordering information

V1242-22A14	1/4" day/night zoom camera, PAL, 650TVL, 22X optical zoom, 20X digital zoom, 12VDC/24VAC
V1242-23A14	1/4" day/night zoom camera, PAL, 560TVL, 23X optical zoom, 16X digital zoom, 12VDC/24VAC
V1242-30A14	1/4" day/night zoom camera, PAL, 650TVL, 30X optical zoom, 20X digital zoom, 12VDC/24VAC
V1242-36A14	1/4" day/night zoom camera, PAL, 650TVL, 36X optical zoom, 20X digital zoom, 12VDC/24VAC

Dimensions



(Unit: inch, in the parentheses is mm)

V5410-A2 Series





















- Resolution: 480 TVL
- Electronic day/night functionality
- Aspherical IR corrected auto-iris vari-focal lens
- Digital Signal Processor (DSP) for high quality image
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Auto White Balance (ATW), Flickerless (F.L.), Backlight Compensation (BLC)
- Surface Mount, 2-axis adjustment
- 12VDC/24VAC power input

V5410-A2 series indoor electronic day/night fixed minidome cameras feature a high-resolution 1/3" CCD sensor and excellent low light operation. They are available in resolutions of 480 lines. They are equipped with a 4.0~9.0mm auto-iris, vari-focal lens. The cameras are designed for surface mount with 2-axis adjustment and require 12VDC/24VAC for power. The cameras provide excellent image quality along with ease of installation.

Image Sensor	1/3" SONY HAD CCD
Video Type	PAL
Effective Pixels	752(H)×582(V)
Resolution	480 TVL
Sensitivity	0.5 lux @ F1.4 (50IRE, AGC ON); 0.2 lux @ F1.4 (30IRE, AGC ON)
Scanning Frequency	15.625kHz (Line), 50Hz (Field)
S/N Ratio	> 48 dB (AGC OFF)
Auto Electronic Shutter	ON/OFF, 1/50~1/100,000s
Gamma Correction	0.45
Lens	Vari-Focal: F1.4, f=4.0~9.0 mm
Camera Angle	X (Panning): 0°~360°;
Adjustment	Y (Tilting): 0°~85°
Flickerless Mode	ON/OFF, 1/120s
Backlight Compensation	ON/OFF
Auto Gain Control	ON/OFF
Auto White Balance	ATW
Color Temperature Range	2400K~8000K

Sync. System	Internal
Video Output	1.0 Vp-p (75 Ohm), BNC connector
Power Supply	12VDC/24VAC
Power	12 VDC: 3 W;
Consumption	24 VAC: 4 W
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	3.84"×5.04" (97.5 mm×128 mm)
Box Dimensions	5.51"×5.51"×4.72"
(L×W×H)	(140 mm×140 mm×120 mm)
Unit Weight	0.60 lbs. (0.27 kg)
Shipping Weight	1.04 lbs. (0.47 kg)
Certifications and Approval	
	CE/EMC: EN 61000-6-3, EN 61000-6-1,
Product	EN 61000-3-2, EN 61000-3-3 ¹ ,
Certifications	FCC: Part 15 Subpart B ² ,
	ISO 9001:2008

Certificate No.: 1 BCT08FC-475E; 2 BCT08FC-476E.

Ordering information

V5410-A2014SK Analog minidome camera, 2-axis, Indoor,

1/3 inch CCD, Electronic day/night, 480TVL, PAL, 12VDC/24VAC, Surface mount, 4.0~9.0mm

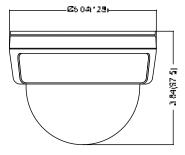
vari-focal lens

ACCESSORIES

Power Supplies

N3921-24A-1	Power Supply, 24VAC, 20VA, Plug-In, 120VAC
N3921-24A-2	Power Supply, 24VAC, 20VA, Plug-In, 230VAC
N3928 Series	Power Supply, 24VAC with 4, 8 or 16 Outputs

Dimensions



(Unit: inch, in the parentheses is mm)

V5411-A2 Series Indoor Color Fixed Minidome Camera





















- 1/3" SONY HAD CCD sensor
- Resolution/Sensitivity: 480 TVL at 0.3 lux
- Fixed lens; Aspherical IR corrected auto-iris vari-focal lens
- Digital Signal Processor (DSP) for high quality image
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Auto White Balance (ATW), Flickerless (F.L.), Backlight Compensation (BLC)
- Surface Mount, 2-axis adjustment
- 12VDC/24VAC power input

V5411-A2 series indoor color fixed minidome cameras feature a high-resolution 1/3" CCD sensor and excellent low light operation. They are available in resolutions of 480 TV lines at 0.3 lux. They are built-in a fixed lens or an auto-iris vari- focal lens. The cameras are designed for surface mount with 2-axis adjustment and require 12VDC/24VAC for power. The cameras provide excellent image quality along with ease of installation.

Image Sensor	1/3" SONY HAD CCD
Effective Pixels	NTSC: 768(H)×494(V); PAL: 752(H)×582(V)
Resolution	480 TVL
Sensitivity	0.3 lux @ F1.2 (30IRE, AGC ON)
S/N Ratio	> 48 dB (AGC OFF)
Scanning Frequency	15.625kHz (Line), 50Hz (Field)
Auto Electronic Shutter	ON/OFF, NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Gamma Correction	0.45
Lens	Fixed: F2.0, f=2.8mm, 3.6 mm, 6mm or 8mm; Vari-Focal: F1.2, f=2.5~6 mm
Camera Angle Adjustment	X (Panning): 0°~360°; Y (Tilting): 0°~85°
Flickerless Mode	ON/OFF, NTSC: 1/100s, PAL: 1/120s
Backlight Compensation	ON/OFF
Auto Gain Control	ON/OFF
Auto White Balance	ATW
Color Temperature Range	2400K~8000K

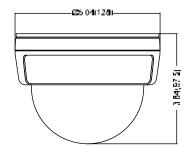
Sync. System	Internal	
Video Output	1.0 Vp-p (75 Ohm), BNC connector	
Power Supply	12VDC/24VAC	
Power	12 VDC: 3 W;	
Consumption	24 VAC: 4 W	
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)	
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)	
Operating Humidity	0~90% RH (non-condensing)	
Unit Dimensions (Hר)	3.84"×5.04" (97.5 mm×128 mm)	
Box Dimensions	5.51"×5.51"×4.72"	
(L×W×H)	(140 mm×140 mm×120 mm)	
Unit Weight	0.60 lbs. (0.27 kg)	
Shipping Weight	1.04 lbs. (0.47 kg)	
Certifications and Approval		
	CE/EMC: EN 61000-6-3, EN 61000-6-1,	
Product	EN 61000-3-2, EN 61000-3-3 ¹ ,	
Certifications	FCC: Part 15 Subpart B ² ,	
	ISO 9001:2008	

Certificate No.: 1 BCT08FC-475E; 2 BCT08FC-476E.

Ordering information

V5411-A2004ST	Analog minidome camera, 2-axis, Indoor, 1/3 inch	V5411-A2014SU	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Color only, 480TVL, NTSC, 12VDC/24VAC,		CCD, Color only, 480TVL, PAL, 12VDC/24VAC,
	Surface mount, 2.8mm fixed lens		Surface mount, 3.6mm fixed lens
V5411-A2004SU	Analog minidome camera, 2-axis, Indoor, 1/3 inch	V5411-A2014SW	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Color only, 480TVL, NTSC, 12VDC/24VAC,		CCD, Color only, 480TVL, PAL, 12VDC/24VAC,
	Surface mount, 3.6mm fixed lens		Surface mount, 6mm fixed lens
V5411-A2004SW	Analog minidome camera, 2-axis, Indoor, 1/3 inch	V5411-A2014SX	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Color only, 480TVL, NTSC, 12VDC/24VAC,		CCD, Color only, 480TVL, PAL, 12VDC/24VAC,
	Surface mount, 6mm fixed lens		Surface mount, 8mm fixed lens
V5411-A2004SX	Analog minidome camera, 2-axis, Indoor, 1/3 inch	V5411-A2014SB	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Color only, 480TVL, NTSC, 12VDC/24VAC,		CCD, Color only, 480TVL, PAL, 12VDC/24VAC,
	Surface mount, 8mm fixed lens		Surface mount, 2.5-6mm vari-focal lens
V5411-A2004SB	Analog minidome camera, 2-axis, Indoor, 1/3 inch		
	CCD, Color only, 480TVL, NTSC, 12VDC/24VAC,	ACCESSORIES	
	Surface mount, 2.5-6mm vari-focal lens	Power Supplies	
V5411-A2014ST	Analog minidome camera, 2-axis, Indoor, 1/3 inch	N3921-24A-1	Power Supply, 24VAC, 20VA, Plug-In, 120VAC
	CCD, Color only, 480TVL, PAL, 12VDC/24VAC,	N3921-24A-2	Power Supply, 24VAC, 20VA, Plug-In, 230VAC
	Surface mount, 2.8mm fixed lens	N3928 Series	Power Supply, 24VAC with 4, 8 or 16 Outputs

Dimensions



(Unit: inch, in the parentheses is mm)

V5411-A8 Series























- 1/3" SONY high-resolution Exview HAD II CCD sensor
- Resolution: 700TVL
- Electronic day/night functionality
- Compact structure, elegant design, easy to install
- OSD menu in multiple languages
- 2D digital noise reduction, high S/N ratio, clear image
- Highlight Compensation (HLC)
- Motion detection
- Privacy mask
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Backlight Compensation (BLC)
- Multiple white balance modes and superior color rendering ability
- CCD blemish compensation
- Mirror, Hue, and Color Gain adjustable
- 12VDC/24VAC power supply
- Internal/ Line Lock Sync. System

V5411-A8 series indoor electronic day/night fixed minidome cameras feature a high-resolution 1/3" SONY Exview HAD II CCD sensor. Advanced Effio Digital Signal Processor (DSP) provides 600 TV lines of resolution, excellent low light performance, and superior color rendering ability and digital noise reduction and Electronic day/night functionality, which ensures high-quality videos under extremely difficult light conditions.

V5411-A8 series provides privacy mask which effectively protects certain private areas from being seen and motion detection which provides higher security for your surveillance.

V5411-A8 series offers user-friendly OSD menu, easy to adjust the video parameters. In addition, its elegant design and compact structure makes it an ideal surveillance solution for shopping malls, banks, office buildings, parking lots, city streets and other applications.

Image Sensor	1/3" SONY Exview HAD II CCD
Video Type	NTSC/PAL
Effective Pixels	NTSC: 976 (H) × 494(V), 480K; PAL: 976(H) × 582(V), 570K
Scanning System	2:1 interlaced scanning
Resolution	700TVL
Sensitivity	0.01 lux @ F1.2 (50 IRE, AGC HIGH)
S/N Ratio	>54dB (AGC OFF)
Lens	F2.0, f=2.8mm, 3.6mm, 8mm
Auto Iris	DC Drive
Camera Angle Adjustment	X (Panning): 0°~360°; Y (Tilting): 0°~85°
Auto Electric Shutter	Auto; Manual: NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Gamma Correction	0.45
White Balance	ATW/PUSH/USER 1/USER 2/ANTI-CR/ MANUAL/PUSH LOCK
Color Temperature Range	1800K~10500K
Auto Gain Control	Available, 0~42dB (8-level adjustable)
BLC/HLC	Available

Privacy Mask	Up to 4 programmable masks	
Motion	Up to 4 programmable areas	
Detection	Op to 4 programmable areas	
Picture	Horizontal Mirror, Brightness, Contrast, Sharpness,	
Adjustment	Hue, Color Gain	
Noise Reduction	2D	
Sync. System	Internal/ Line Lock	
Video Output	1.0 Vp-p (75 Ohm), BNC connector	
Power Supply	12VDC/24VAC	
Power Consumption	4 W (maximum)	
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)	
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)	
Operating Humidity	0~90% RH (non-condensing)	
Unit		
Dimensions (Hר)	3.84"×5.04" (97.5 mm×128 mm)	
Box Dimensions	5.51"×5.51"×4.72"	
(L×W×H)	(140 mm×140 mm×120 mm)	
Unit Weight	0.60 lbs. (0.27 kg)	
Shipping Weight	1.04 lbs. (0.47 kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO	

Certificate No.: 1 CTL1407111592-EC; 2 CTL1407111592-FC.

9001:2008

Ordering information

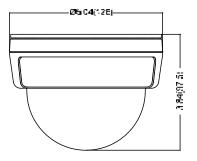
V5411-A8004ST	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Electronic day/night, 700TVL, NTSC,
	12VDC/24VAC, Surface mount, 2.8mm fixed lens
V5411-A8014ST	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Electronic day/night, 700TVL, PAL,
	12VDC/24VAC, Surface mount, 2.8mm fixed lens
V5411-A8004SU	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Electronic day/night, 700TVL, NTSC,
	12VDC/24VAC, Surface mount, 3.6mm fixed lens
V5411-A8014SU	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Electronic day/night, 700TVL, PAL,
	12VDC/24VAC, Surface mount, 3.6mm fixed lens
V5411-A8004SX	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Electronic day/night, 700TVL, NTSC,
	12VDC/24VAC, Surface mount, 8mm fixed lens
V5411-A8014SX	Analog minidome camera, 2-axis, Indoor, 1/3 inch
	CCD, Electronic day/night, 700TVL, PAL,
	12VDC/24VAC, Surface mount, 8mm fixed lens

ACCESSORIES Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC

Dimensions

Certifications



(Unit: inch, in the parentheses is mm)

V5412-A7 Series























- 1/3" SONY high-resolution Exview HAD II CCD sensor
- Resolution: 700TVL
- IR-Cut Removable (ICR) Filter for Day/Night switching
- · Compact structure, elegant design, easy to install
- OSD menu in multiple languages
- 2D digital noise reduction, high S/N ratio, clear image
- Highlight Compensation (HLC)
- Motion detection
- Privacy mask
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Backlight Compensation (BLC)
- Multiple white balance modes and superior color rendering ability
- CCD blemish compensation
- Mirror, Hue, and Color Gain adjustable
- 12VDC/24VAC power supply
- Internal/ Line Lock Sync. System

V5412-A7 series indoor day/night fixed minidome cameras feature a high-resolution 1/3" SONY Exview HAD II CCD sensor. Advanced Effio Digital Signal Processor (DSP) provides 700 TV lines of resolution, excellent low light performance, and superior color rendering ability and digital noise reduction function, which ensures high-quality videos under extremely difficult light conditions.

V5412-A7 series provides privacy mask which effectively protects certain private areas from being seen and motion detection which provides higher security for your surveillance.

V5412-A7 series has the day/night functionality, which can automatically switch the color and B/W modes.

V5412-A7 series offers user-friendly OSD menu, easy to adjust the video parameters. In addition, its elegant design and compact structure makes it an ideal surveillance solution for shopping malls, banks, office buildings, parking lots, city streets and other applications.

Image Sensor	1/3" SONY Exview HAD II CCD
Video Type	NTSC/PAL
Effective Pixels	NTSC: 976 (H) × 494(V), 480K; PAL: 976(H) × 582(V), 570K
Scanning System	2:1 interlace
Resolution	700TVL
Day/Night Functionality	ICR
Sensitivity	Color mode: 0.01 lux @ F1.2 (50 IRE, AGC HIGH); B/W mode: 0.001 lux @ F1.2 (50 IRE, AGC HIGH)
S/N Ratio	>54dB (AGC OFF)
Lens	F1.2, f=2.5~6 mm or F1.4, f=3.3~12 mm
Auto Iris	DC Drive
Camera Angle Adjustment	X (Panning): 0°~360°; Y (Tilting): 0°~85°
Auto Electric Shutter	Auto; Manual: NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Gamma Correction	0.45
White Balance	ATW/PUSH/USER 1/USER 2/ANTI-CR/ MANUAL/PUSH LOCK
Color Temperature Range	1800K~10500K
Auto Gain Control	Available, 0~42dB (8-level adjustable)
BLC/HLC	Available

Privacy Mask	4	
Motion Detection	4	
Picture Adjustment	Horizontal Mirror, Brightness, Contrast, Sharpness, Hue, Color Gain	
Noise Reduction	2D	
Sync. System	Internal/ Line Lock	
Video Output	1.0 Vp-p (75 Ohm), BNC connector	
Power Supply	12VDC/24VAC	
Power Consumption	4 W (maximum)	
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)	
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)	
Operating Humidity	0~90% RH (non-condensing)	
Unit Dimensions (Hר)	3.84"×5.04" (97.5 mm×128 mm)	
Box Dimensions	5.51"×5.51"×4.72"	
(L×W×H)	(140 mm×140 mm×120 mm)	
Unit Weight	0.60 lbs. (0.27 kg)	
Shipping Weight	1.04 lbs. (0.47 kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001:2008	

Certificate No.: 1 CTL1407111590-EC; 2 CTL1407111590-FC.

Ordering information

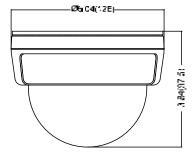
Analog minidome camera, 2-axis, Indoor,
1/3 inch CCD, Day/night, 700TVL, NTSC,
12VDC/24VAC, Surface mount,
2.5-6mm vari-focal lens
Analog minidome camera, 2-axis, Indoor,
1/3 inch CCD, Day/night, 700TVL, PAL,
12VDC/24VAC, Surface mount,
2.5-6mm vari-focal lens
Analog minidome camera, 2-axis, Indoor,
1/3 inch CCD, Day/night, 700TVL, NTSC,
12VDC/24VAC, Surface mount,
3.3-12mm vari-focal lens
Analog minidome camera, 2-axis, Indoor,
1/3 inch CCD, Day/night, 700TVL, PAL,
12VDC/24VAC, Surface mount,

ACCESSORIES Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC N3928 Series Power Supply, 24VAC with 4, 8 or 16 Outputs

3.3-12mm vari-focal lens

Dimensions



(Unit: inch, in the parentheses is mm)

V5821-A7 & V5822-A7 Series



Vandal Resistant Electronic Day/Night & Day/Night Fixed Minidome Camera





















- 1/3" SONY high-resolution Exview HAD II CCD sensor
- Resolution: 700TVL
- Electronic Day/Night functionality (V5821-A7 series)
- Automatic Day/Night functionality with ICR filter, settable AUTO/ DAY/ NIGHT mode (V5822-A7 series)
- Supports OSD menu display
- 2D digital noise reduction
- Highlight Compensation (HLC)
- Motion detection
- Privacy mask
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Backlight Compensation (BLC), Flickerless Mode (F.L.)
- Multiple white balance modes for complicated illumination
- Aspherical, auto-iris, vari-focal lens with IR correction
- 12VDC/24VAC power input, centralized power-supply mode
- Surface or Recessed Mount, Vandal Resistant, 3-axis adjustment

V5821-A7 & V5822-A7 series minidome cameras feature a high-resolution 1/3" SONY Exview HAD II CCD sensor and advanced Effio Digital Signal Processor (DSP). These cameras provide 700 TV lines of resolution, improved color rendering and digital noise reduction, which ensure excellent video in extremely difficult illumination conditions.

The cameras offer user-friendly OSD menu. They can designate 4 privacy masks in a surveillance screen, which effectively protects certain area from being seen by operator. Motion detection provides higher security of your surveillance system.

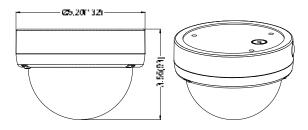
V5821-A7 & V5822-A7 series deploy vandal resistant dome housing, making them the ideal choice for the hazardous surveillance environments. The cameras provide easy installation, designed for surface or recessed mount with 3-axis adjustment.

Image Sensor	1/3" SONY Exview HAD II CCD
Video Type	NTSC/PAL
Effective Pixels	NTSC: 976(H) × 494(V), 480K; PAL: 976(H) × 582(V), 570K
Scanning System	2:1 interlace
Resolution	700TVL
Sensitivity	V5821-A7: 0.1 lux @ F1.2 (50IRE, AGC HIGH); V5822-A7: Color mode: 0.1 lux @ F1.2 (50IRE, AGC HIGH), B/W mode: 0.005 lux @ F1.2 (50IRE, AGC HIGH)
S/N Ratio	>54dB (AGC OFF)
Lens	F1.2, f=2.5~6 mm or F1.4, f=3.3~12 mm
Auto Iris	DC Drive
Camera Angle Adjustment	X (Panning): 0°~350°; Y (Tilting): 0°~75°; Z (Rotating): 0°~350°
Auto Electric Shutter	Auto; Manual: NTSC: 1/60~1/100,000s, PAL: 1/50~1/100,000s
Gamma Correction	0.45
White Balance	ATW/ MANUAL /INDOOR/ OUTDOOR/ FLUORES/ PUSHLOCK
Color Temperature Range	1800K~10500K
Auto Gain Control	HIGH/ MEDIUM-H/ MEDIUM-M/ MEDIUM-L/ LOW-H/ LOW-M/ LOW-L/ OFF
Backlight Compensation	HLC/ BLC/ OFF
Flickerless Mode	ON/ OFF

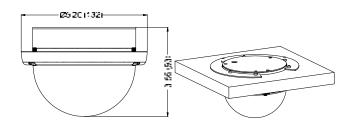
Privacy Mask	4 programmable masks
Motion Detection	4 programmable areas
Picture Adjustment	Horizontal Mirror, Brightness, Contrast, Sharpness, Hue, Color Gain
Noise Reduction	2D
Alarm	Available, MD-OUT/ OFF
Sync. System	Internal/Line Lock
Video Output	1.0 Vp-p (75 Ohm), BNC connector
Power Supply	12VDC/ 24VAC
Power Consumption	3W (maximum)
Operating Temperature	14 °F ~ 122 °F (-10 °C ~ 50°C)
Storage Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (Hר)	3.66"×5.20" (93mm×132mm)
Box Dimensions	6.89"×6.89"×6.30"
(L×W×H)	(175mm×175mm×160mm)
Unit Weight	Surface: 1.65 lbs. (0.75 kg); Recessed: 1.21 lbs. (0.55 kg)
Shipping Weight	Surface: 2.09 lbs. (0.95 kg); Recessed: 1.65 lbs. (0.75 kg)
Certifications	and Approval
Product Certifications	IEC61373, CISPR22/24 ¹ , CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B Class A ² , ISO 9001:2008

Certificate No.: ¹BCTQDZ11050443; ²CTL1407111591-EC; ³CTL1407111591-FC.

Dimensions



Surface mount



Recessed mount

(Unit: inch, in the parentheses is mm)

Ordering information

V5821-A7004SE	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Electronic day/night, 700TVL, NTSC, 12VDC/24VAC, Surface mount, 3.3-12mm vari-focal lens	V5822-A7014SB	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, PAL, 12VDC/24VAC, Surface mount, 2.5-6mm vari-focal lens
V5821-A7014SE	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Electronic day/night, 700TVL, PAL, 12VDC/24VAC, Surface mount, 3.3-12mm vari-focal lens	V5822-A7014SE	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, PAL, 12VDC/24VAC, Surface mount, 3.3-12mm vari-focal lens
V5822-A7004SB	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, NTSC, 12VDC/24VAC, Surface mount, 2.5-6mm vari-focal lens	V5822-A7014RB	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, PAL, 12VDC/24VAC, Recessed mount, 2.5-6mm vari-focal lens
V5822-A7004SE	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, NTSC, 12VDC/24VAC, Surface mount, 3.3-12mm vari-focal lens	V5822-A7014RE	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, PAL, 12VDC/24VAC, Recessed mount, 3.3-12mm vari-focal lens
V5822-A7004RB	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, NTSC, 12VDC/24VAC, Recessed mount, 2.5-6mm vari-focal lens	ACCESSORIES Power Supplies N3921-24A-1	Power Supply, 24VAC, 20VA, Plug-In, 120VAC
V5822-A7004RE	Analog minidome camera, 1/3 inch CCD, Vandal-resistant, 3-axis, Day/night, 700TVL, NTSC, 12VDC/24VAC, Recessed mount, 3.3-12mm vari-focal lens	N3921-24A-2 N3928 Series	Power Supply, 24VAC, 20VA, Plug-In, 230VAC Power Supply, 24VAC with 4, 8 or 16 Outputs

V5822IR-A3 Series Vandal Resistant IR Minidome Camera







- 1/3" SONY Super HAD II CCD sensor
- Resolution: 520 TVL
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Built-in IR illuminators, 25m illumination distance
- Adjustable power consumption of IR illuminators
- Super imaging performance at nighttime
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Backlight Compensation (BLC)
- Aspherical, auto-iris, vari-focal lens with IR correction
- LEVEL adjustment
- Surface Mount, 3-axis adjustment

V5822IR-A3 series IR minidome cameras feature a high-sensitivity 1/3" SONY Super HAD II CCD sensor. Advanced Digital Signal Processor (DSP) provides 520 TV lines of resolution and authentic images. The built-in IR illuminators provide 25m illumination distance. These cameras are the perfection solution for a 24x7 around-the-clock surveillance.

V5822IR-A3 series IR minidome cameras employ vandal resistant minidome housing, making them the ideal choice for the hazardous surveillance environments. The cameras provide easy installation, with 3-axis adjustment.

Image Sensor	1/3" SONY Super HAD II CCD
Video System	NTSC/PAL
Scanning System	2:1interlace scanning
Effective Pixels	NTSC: 768(H)×494(V), 380K; PAL: 752(H)×582(V), 440K
Resolution	520 TVL
Sensitivity	Color mode: 0.2 lux @ F1.2 (30 IRE, AGC HIGH); B/W mode: 0 lux (IR ON)
IR Wavelength	850nm
IR Illumination Distance	25m
S/N Ratio	> 48 dB (AGC OFF), Black burst
Lens	F1.4, f=3.3~12 mm
Camera Angle Adjustment	X (Panning): 0°~350°; Y (Tilting): 0°~75°; Z (Rotating): -85°~85°
Auto Electronic Shutter	OFF: NTSC: 1/60s, PAL:1/50s; ON: NTSC: 1/60~1/100,000s, PAL:1/50~1/100,000s
Gamma Correction	0.45
White Balance	Auto
Color Temperature Range	2400K~9600K
Auto Gain Control	High/Low

Backlight Compensation	ON/OFF	
Sync. System	Internal	
Video Output	1.0 Vp-p (75 Ohm), BNC connector	
Power Supply	12VDC/24VAC	
Power Consumption	12VDC: 4.5W; 24VAC: 5W	
Operating Temperature	14° F ~ 122° F (-10° C ~ 50° C)	
Storage Temperature	-4° F ~ 140° F (-20° C ~ 60° C)	
Operating Humidity	0~90% RH (non-condensing)	
Unit Dimensions (Hר)	3.66"×5.20" (93mm×132mm)	
Box Dimensions (L×W×H)	6.9"×6.9"×6.3" (175mm×175mm×160mm)	
Unit Weight	1.9 lbs. (0.85 kg)	
Shipping Weight	2.3 lbs. (1.05 kg)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part 15 Subpart B ² , ISO 9001:2008	

Certificate No.: 1 BCT12ER-0596E; 2 BCT12EC-0597E.

Ordering information

V5822IR-A3004SE IR minidome camera, 1/3 inch CCD, Vandal-resistant,

3-axis, Day/night, 520TVL, NTSC, 12VDC/24VAC,

Surface mount, 3.3-12mm vari-focal lens

V5822IR-A3014SE IR minidome camera, 1/3 inch CCD, Vandal-resistant,

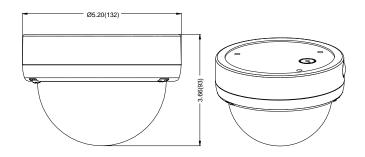
3-axis, Day/night, 520TVL, PAL, 12VDC/24VAC, Surface mount, 3.3-12mm vari-focal lens

ACCESSORIES

Power Supplies

N3921-24A-1 Power Supply, 24VAC, 20VA, Plug-In, 120VAC N3921-24A-2 Power Supply, 24VAC, 20VA, Plug-In, 230VAC N3928 Power Supply, 24VAC with 4, 8 or 16 Outputs

Dimensions



(Unit: inch, in the parentheses is mm)

V1730A Series























- High performance 1/4" SONY CCD, clear image and natural color
- 10×12 zoom available
- High-precision drive motor for smooth and quick movement
- 360° continuous pan travel, auto flip vertically
- Infinova, Pelco-P/D protocols, and Up-the-Coax protocol self-adaptive
- No surveillance blind area
- Dome address setting via software or DIP switch
- 254 presets, 4 patterns, 4 autopans, 6 tours, auto flip, autoscan and home position
- Motion detection function associated with relay alarm,
 2 alarm inputs, 1 relay output
- 16 video blanking sectors and 24 spherical privacy zones
- 2 alarm inputs and 1 relay output, with alarm associated with presets
- Surge and lightning protection
- IP66 rating (except recessed mount domes)

V1730A series indoor vandal resistant 10X mini PTZ dome is compact and light weight with an inner step motor, slip ring, rotation bearing, timing PCB and transmission gear.

V1730A series 10X mini PTZ dome features continuous 360° rotation, with super sensitivity, auto focus, auto iris, and backlight compensation. The cameras provide quality images under any lighting conditions. The OSD menu allows for the ease of installation and maintenance.

Lens	
Optical Zoom	10X
Aperture/	F1.8 ~ F2.9,
Focal Length	f=4.2mm (Wide) ~ 42.0mm (Tele)
Focal Range	0.2m (Wide) ~ 1m (Tele)
Angle of View	46.0° (Wide) ~ 4.6° (Tele)
Camera	
Image Sensor	Sony 1/4-type EXview HAD CCD
Effective Pixels	PAL/440K: 752×582;
(H×V)	NTSC/380K: 768×494
Sensitivity	1.0 lux (F1.8, NTSC: 1/60s, PAL: 1/50s)
S/N Ratio	(typical value) >50dB
External Control	VISCA (TTL signal level)
Video	VISCA (TTE Signal level)
Video Type	PAL/NTSC
Horizontal	PAL/NISC
Resolution	530TVL
Communication	
Protocols	INFINOVA, PELCO-P/D self-adaptive
Number of	· · · · · · · · · · · · · · · · · · ·
Addresses	1~254
Baud Rate	2400/4800/9600bps optional
Operational	
Manual Pan Speed	Pan: 1°~240°/s
Manual Tilt Speed	Tilt: 1°~100°/s
Preset Speed	Max. 350%s
Pan Travel	360° continuous
Tilt Travel	0°~90°
Preset Accuracy	±0.3°
Presets	254
Patterns	4
Autopans	4
Video Blanking Sectors	16
Spherical Privacy Zones	24
Tours	6
Alarm Input	2
Alarm Output	1
Motion Detection	Yes
Home Return	Yes
Auto Scan	Yes
Image Mirror	ON/OFF
Digital Zoom	1~12X adjustable
J	,

Focus	Auto, Manual, M/A
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Shutter Speed	NTSC: 1/4 ~ 1/10,000s; PAL: 1/3 ~ 1/10,000s
Digital Slow Shutter	ON/OFF
Backlight Compensation	ON/OFF
Mechanical	
Product Dimension (H×D)	Bracket (indoor): 7.22" × Φ5.91" (183.5mm × Φ150mm); Bracket (outdoor): 7.87" × Φ6.69" (200mm × Φ170mm) Recessed: 6.40" × Φ7.17" (162.5mm × Φ182mm);
	Surface: 6.48" × Φ5.91" (164.5mm × Φ150mm)
Box Dimension (L×W×H)	8.66" × 8.66" × 11.22" (220mm × 220mm × 285mm)
Shipping Weight	Bracket (indoor): 4.63lbs (2.1kg); Bracket (outdoor): 5.07lbs (2.3kg) Recessed: 5.07lbs (2.3kg); Surface: 5.51lbs (2.5kg)
Motor	Stepping motor
Mounting	Bracket, ceiling, surface
Housing Material	Cast Aluminum
Sync	
Sync System	Internal
Auto Synchronization	Built-in sync generator
Electrical	
Power Supply	24VAC/24VDC self-adaptive or 12VDC
Power Consumption	Indoor: 8W (12VDC; 12W (24VDC); Outdoor: 15W (24VAC); 23W (24VDC, W/Heater); 36W (24VAC, W/Heater)
Power Surge	Yes
Protection Environmental	
Operating Operating	Indoor: 14°F ~ 104°F (-10°C ~ +40°C);
Temperature	Outdoor: -40°F ~ 140°F (-40°C ~ +60°C)
Operating Humidity	0~90%RH (non-condensing)
Certifications and	l Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part15 Subpart B ² , ISO 9001:2008

Certificate No.: ¹ CTL1405281198-EC; ² CTL1405281198-FC.

Ordering information

PTZ Dome Camera Part Numbering

Туре	Bubble	Model (NTSC)	Model (PAL)
Bracket Mount Camera	Vandal-Resistant Clear	V1731A-C0C3B3	V1731A-C1C3B3
24VAC/24VDC, Indoor	Vandal-Resistant Smoked	V1731A-C0S3B3	V1731A-C1S3B3
Ceiling Mount Camera	Vandal-Resistant Clear	V1731A-C0C3C3	V1731A-C1C3C3
24VAC/24VDC, Indoor	Vandal-Resistant Smoked	V1731A-C0S3C3	V1731A-C1S3C3
Surface Mount Camera	Vandal-Resistant Clear	V1731A-C0C3S3	V1731A-C1C3S3
24VAC/24VDC, Indoor	Vandal-Resistant Smoked	V1731A-C0S3S3	V1731A-C1S3S3
Bracket Mount Camera	Vandal-Resistant Clear	V1731A-C0C3B5	V1731A-C1C3B5
12VDC, Indoor	Vandal-Resistant Smoked	V1731A-C0S3B5	V1731A-C1S3B5
Ceiling Mount Camera	Vandal-Resistant Clear	V1731A-C0C3C5	V1731A-C1C3C5
12VDC, Indoor	Vandal-Resistant Smoked	V1731A-C0S3C5	V1731A-C1S3C5
Surface Mount Camera	Vandal-Resistant Clear	V1731A-C0C3S5	V1731A-C1C3S5
12VDC, Indoor	Vandal-Resistant Smoked	V1731A-C0S3S5	V1731A-C1S3S5
Bracket Mount Camera	Vandal-Resistant Clear	V1732A-C0C3B3	V1732A-C1C3B3
24VAC/24VDC, Outdoor	Vandal-Resistant Smoked	V1732A-C0S3B3	V1732A-C1S3B3
Surface Mount Camera	Vandal-Resistant Clear	V1732A-C0C3S3	V1732A-C1C3S3
24VAC/24VDC, Outdoor	Vandal-Resistant Smoked	V1732A-C0S3S3	V1732A-C1S3S3

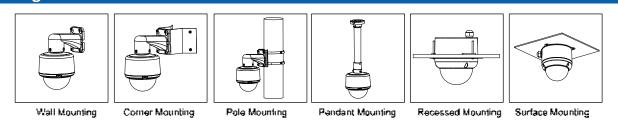
Accessories

V1761MS Wall mount, 6 inch horizontal
V1762MS Corner mount, 6 inch horizontal
V1763MS Pole side, 6 inch horizontal

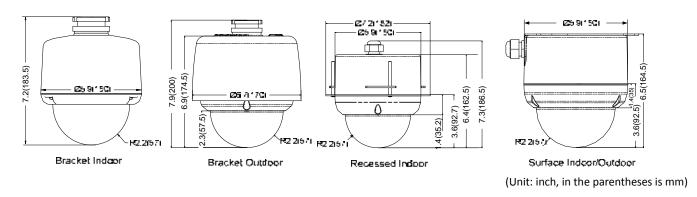
V1764 Indoor pendant, 15 inch long vertical

V1764A Outdoor pendant, 15 inch long vertical, side opening for wiring V1764B Outdoor pendant, 15 inch long vertical, top opening for wiring For detailed information, refer to V1760 series indoor/outdoor dome mounts.

Mounting

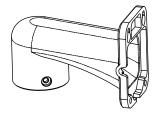


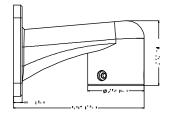
Dimensions

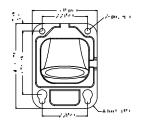


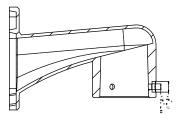
Mounts & Adapters Dimensions

Bracket:

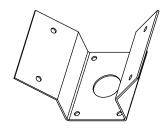


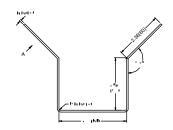


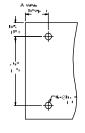


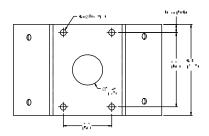


Corner Mount Adapter:

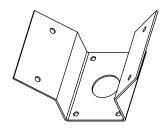


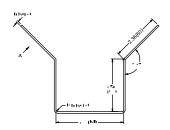


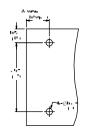


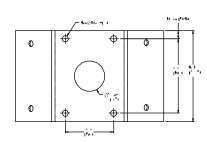


Pole Mount Adapter:

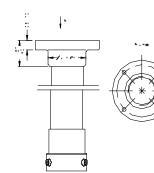


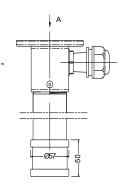


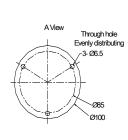


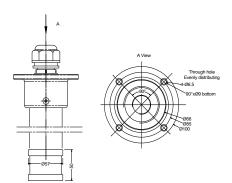


Pendant Mount Bracket:









V1720A E2 Series



Indoor Recessed Ceiling and Bracket Mount PTZ Dome Camera

















- Infinova, Pelco-P/D protocol self-adaptive; compatible with Up-the-Coax protocol
- Both hard and soft addresses
- · Smooth running, high sensitivity, low noise
- 4 motion detection areas, associated with 2 alarm relays
- 2 privacy mask modes
- 254 presets, preset speed at max 400%s, position precisely
- Super wide dynamic range (WDR), illumination ratio up to 128X
- Area zoom
- 4 alarm inputs, 2 relay outputs, alarm associated with presets
- Surge and lightning protection: ±2000VA
- Practical anti-dropping design

V1720A E2 series intelligent domes are the perfect combination of art and technology, leading the new trend of dome cameras. The domes feature auto focus, auto white balance, with 23X/28X/36X optical zoom and 12X digital zoom available. The domes can be controlled with the speed from 0.08% to 400%, with high sensitivity, smooth movement, and low noise.

254 presets and 4 patterns are provided, in which the presets can be called manually, or triggered by alarm inputs. Password Protection function can prevent the illegal users altering the inner parameters. Home Return function helps the users to call the scene that scheduled before without manual adjustment. The dome supports up to 16 Areas. Users can assign names and boundaries to these Areas; each Area can be a different size. The domes also feature 360° Rotation, Auto Flip, and Privacy Mask functions. On the client PC, the function of Zoom Selected Area is available.

Centical Zoom	22V 26V 26V
Optical Zoom	23X, 28X, 36X
Aperture/ Focal Length	23X: F1.6~F3.7; f=3.6~82.8mm 28X: F1.35~F3.7; f=3.5~98mm 36X: F1.6~F4.5; f=3.4~122.4mm
Angle of View	23X: 54° (Wide)/2.5° (Tele) 28X: 55.8° (Wide)/2.1° (Tele) 36X: 57.8° (Wide)/1.7° (Tele)
Min. Work Distance	23X: 0.01m (Wide) ~ 1.0m (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele)
Camera	
Scanning System	2:1 Interlace Scanning
Image Sensor	23X: 1/4" Interlace Scan CCD 28X: 1/4" Interlace scan CCD 36X: 1/4" Progressive scan CCD
Effective Pixels (H×V)	PAL/440K: 752×582; NTSC/380K: 768×494
Sensitivity (23X)	Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s)
Sensitivity (28X)	Color mode: 0.56 lux @ F1.35 (50IRE) (Typical); 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s)
Sensitivity (36X)	Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s)
S/N Ratio	>50dB
Video	
Video Type	PAL/NTSC (D/N)
Horizontal Resolution	23X: 540TVL 28X: 550TVL 36X: 550TVL
Video Output	1.0±0.2Vp-p
Communication	
Protocols	INFINOVA, PELCO-P/D (self-adaptive), Up-the-Coax protocols optional
Number of Addresses	1~254
Baud Rate	2400/4800/9600bps optional
Operational	
Manual Pan Speed	0.08°~200°/s
Manual Tilt Speed	0.2°~100°/s
Preset Speed	400% maximum
Pan Travel	360° continuous

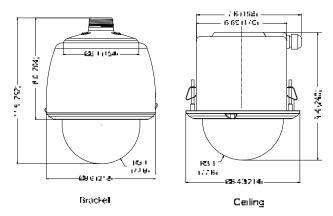
Tilt Travel	-5°~90°
Preset Accuracy	±0.1°
Presets	254
Patterns	4
Autopans	4
Programmable Areas	16
Video Blanking Sectors	16
Spherical Privacy Zones	4 (23X) 24 (28X/36X)
Tours	6
Alarm Inputs	4 alarm inputs
Alarm Outputs	2 relay outputs
Motion Detection	Yes (28X/36X)
Home Return	Yes
Auto Scan	Yes
Image Mirror	Yes
WDR	23X: OFF/WDR/AD WDR/WDR*/AD WDR* 36X: OFF/DVER COMP/EXP RATIONAUTO
Stabilization	Yes (28X/36X)
FNR	23X: OFF/AUTO/MANU 28X: ON/OFF 36X: ON/OFF
Digital Zoom	1~12X adjustable
DSS	Yes
Focus	AUTO / MANU / M/A
White Balance	23X: AUTO/MANU/MERC/SODI 28X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW 36X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW
Shutter Speed	Auto: Default Set; Manual: 23X: PAL: 1/1.5~1/30000s, NTSC: 1/2~1/30000s; 28X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s; 36X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s
Iris	AUTO / MANU / M/A
Zoom Selected Area	Yes (PELCO-D)
Backlight Compensation Mechanical	ON/OFF
Product Dimension (H×D) Package	Bracket: 11.5" × Φ8.6" (292mm × Φ218mm); Ceiling: 9.4" × Φ8.4" (240mm × Φ214mm) 19.09" × 11.02" × 11.81"
Dimension (L×W×H)	(485mm × 280mm × 300mm)
Product Weight	Bracket: 7.1lbs (3.2kg), Ceiling: 6.2lbs (2.8kg)
Shipping Weight	Bracket: 10.6lbs (4.8kg), Ceiling: 9.5lbs (4.3kg)
Motor	Stepping motor
Mounting	Bracket, ceiling

Ordering information

Housing Material	Cast Aluminum
Sync	
Sync System	Internal/Line-locked
Internal Synchronization	Built-in sync generator
Line-locked Synchronization	Remote V-phase adjustment
Electrical	
Power Supply	12VDC, 24VAC
Power Consumption	12VDC: 18W; 24VAC: 25W
Power Surge Protection	Yes
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ +50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
Operating Humidity	0~90%RH (non-condensing)
Certifications and	Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part15 Subpart B ² ,

ISO 9001:2008, UL

Dimensions



(Unit: inch, in the parentheses is mm)

Ordering information

Certificate No.: 1 BCT12HC-1418E; 2 BCT12HC-1419E.

PTZ Dome Camera Part Numbering

Туре	Bubble	23X D/N	28X D/N	36X D/N
Indoor Recessed Ceiling Mount	Vandal-Resistant Clear	V1727A-C0C3C6E2	V1728A-C0C3C6E2	V1723A-C0C3C6E2
NTSC Camera 24VAC	Vandal-Resistant Smoked	V1727A-C0S3C6E2	V1728A-C0S3C6E2	V1723A-C0S3C6E2
Indoor Recessed Ceiling Mount	Vandal-Resistant Clear	V1727A-C1C3C6E2	V1728A-C1C3C6E2	V1723A-C1C3C6E2
PAL Camera 24VAC	Vandal-Resistant Smoked	V1727A-C1S3C6E2	V1728A-C1S3C6E2	V1723A-C1S3C6E2
Indoor Pendant Mount	Vandal-Resistant Clear	V1727A-C0C3B6E2	V1728A-C0C3B6E2	V1723A-C0C3B6E2
NTSC Camera 24VAC	Vandal-Resistant Smoked	V1727A-C0S3B6E2	V1728A-C0S3B6E2	V1723A-C0S3B6E2
Indoor Pendant Mount	Vandal-Resistant Clear	V1727A-C1C3B6E2	V1728A-C1C3B6E2	V1723A-C1C3B6E2
PAL Camera 24VAC	Vandal-Resistant Smoked	V1727A-C1S3B6E2	V1728A-C1S3B6E2	V1723A-C1S3B6E2

Part Number Extensions for Power Input Selection

12VDC	24VAC	EX: 12VDC Input	EX: 24VAC Input
5	6	V1727A-C0C3C5E2	V1727A-C0C3C6E2

Accessories

V1761	Wall Mount, 10 inch horizontal, 1.5 inch NPT	V1764	Pendent Mount, 15 inch long vertical, 1.5 inch NPT, indoor
V1761L	Wall Mount, 17 inch horizontal, 1.5 inch NPT	V1766	Indoor Drop Ceiling Panel, 2 feet × 2 feet, pre-cut
V1762	Corner Mount, 10 inch horizontal, 1.5 inch NPT		
V1763	Pole Mount, 10 inch horizontal, 1.5 inch NPT	For detailed	information, refer to V1760 series indoor/outdoor dome mounts.

Mounting



Wall Mounting







Pole Mounting

Pendant Mounting

V1740A E2 Series























- Infinova, Pelco-P/D protocol self-adaptive; compatible with Up-the-Coax protocol
- Both hard and soft addresses
- Smooth movement, high sensitivity, low noise
- 4 motion detection areas, associated with 2 alarm relays
- 2 privacy mask modes
- 254 presets, preset speed at max 400%s, position precisely
- Super wide dynamic range (WDR), illumination ratio up to 128X
- Area zoom
- 4 alarm inputs, 2 relay outputs, alarm associated with presets
- Surge and lightning protection: ±2000VA
- IP 66 rating, built-in heater and air cycle system, freeze-proof
- Practical anti-dropping design

V1740A E2 series intelligent domes are the perfect combination of art and technology, leading the new trend of dome cameras. The domes feature auto focus, auto white balance, with 23X/28X/36X optical zoom and 12X digital zoom available. The domes can be controlled with the speed from 0.08%s to 400%s, with high sensitivity, smooth movement, and low noise.

254 presets and 4 patterns are provided, in which the presets can be called manually, or triggered by alarm inputs. Password Protection function can prevent the illegal users altering the inner parameters. Home Return function helps the users to call the scene that scheduled before without manual adjustment. The dome supports up to 16 Areas. Users can assign names and boundaries to these Areas; each Area can be a different size. The domes also feature 360° Rotation, Auto Flip, and Privacy Mask functions. On the client PC, the function of Zoom Selected Area is available.

Leve	
Lens Optical Zoom	23X, 28X, 36X
	23X: F1.6~F3.7; f=3.6~82.8mm
Aperture/ Focal Length	28X: F1.6 F3.7; f=3.6 82.8fffff 28X: F1.35~F3.7; f=3.5~98mm 36X: F1.6~F4.5; f=3.4~122.4mm
Angle of View	23X: 54° (Wide)/2.5° (Tele) 28X: 55.8° (Wide)/2.1° (Tele) 36X: 57.8° (Wide)/1.7° (Tele)
Min. Work Distance	23X: 0.01m (Wide) ~ 1.0m (Tele) 28X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele)
Camera	
Scanning System	2:1 Interlace Scanning
Image Sensor	23X: 1/4" Interlace Scan CCD 28X: 1/4" Interlace scan CCD 36X: 1/4" Progressive scan CCD
Effective Pixels (H×V)	PAL/440K: 752×582; NTSC/380K: 768×494
Sensitivity (23X)	Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC: 1/4s)
Sensitivity (28X)	Color mode: 0.56 lux @ F1.35 (50IRE) (Typical); 0.09 lux (NTSC: 1/4s, PAL: 1/3s) (Typical) B/W Mode: 0.02 lux (NTSC: 1/4s, PAL: 1/3s)
Sensitivity (36X)	Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s)
S/N Ratio	>50dB
Video	
Video Type	PAL/NTSC (D/N)
Horizontal Resolution	23X: 540TVL 28X: 550TVL 36X: 550TVL
Video Output	1.0±0.2Vp-p
Communication	
Protocols	INFINOVA, PELCO-P/D (self-adaptive), Up-the-Coax protocol optional
Addresses	1~254
Baud Rate	2400/4800/9600bps optional
Operational	
Manual Pan Speed	0.08°~200°/s
Manual Tilt Speed	0.2°~100°/s
Preset Speed	400%s maximum
Pan Travel	360° continuous
Tilt Travel	-5°~90°

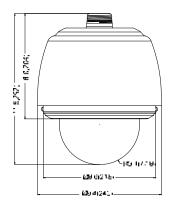
Preset Accuracy	±0.1°
Presets	254
Patterns	4
Autopans	4
Programmable Areas	16
Video Blanking Sectors	16
Spherical Privacy Zones	4 (23X) 24 (28X/36X)
Tours	6
Alarm Inputs	4 alarm inputs
Alarm Outputs	2 relay outputs
Motion Detection	Yes (28X/36X)
Home Return	Yes
Auto Scan	Yes
Image Mirror	Yes
WDR	23X: OFF/WDR/AD WDR/WDR*/AD WDR* 36X: OFF/DVER COMP/EXP RATIONAUTO
Stabilization	Yes (28X/36X)
FNR	23X: OFF/AUTO/MANU 28X: ON/OFF 36X: ON/OFF
Digital Zoom	1~12X adjustable
DSS	Yes
Focus	AUTO / MANU / M/A
White Balance	23X: AUTO/MANU/MERC/SODI 28X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW 36X: AUTO/MANU/INDOOR/OUTDOOR/OUTDOOR AUTO/SODI/ATW
Shutter Speed	Auto: Default Set; Manual: 23X: PAL: 1/1.5~1/30000s, NTSC: 1/2~1/30000s; 28X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s; 36X: PAL: 1/1~1/10000s, NTSC: 1/1~1/10000s
Iris	AUTO / MANU / M/A
Zoom Selected Area	Yes (PELCO-D)
Backlight Compensation	ON/OFF
Mechanical	
Product Dimension (H×D)	11.5" × Ф9.4" (292mm × Ф240mm)
Package Dimension (L×W×H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Product Weight	8.4lbs (3.8kg)
Shipping Weight	11.9lbs (5.4kg)
Motor	Stepping motor
Mounting	Bracket
Housing Material	Cast Aluminum

Technical specifications (continued)

Sync	
Sync System	Internal/Line-locked
Internal Synchronization	Built-in sync generator
Line-locked Synchronization	Remote V-phase adjustment
Electrical	
Power Supply	12VDC, 24VAC
Power Consumption	12VDC: 24W (with heater); 24VAC: 40W (with heater)
Power Surge Protection	Yes
Environmental	
Operating Temperature	-40°F ~ 140°F (-40°C ~ +60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ +60°C)
Operating Humidity	0~90%RH (non-condensing)
Rating	IP66
Certifications and	d Approval
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC: Part15 Subpart B ² ,

ISO 9001:2008, UL

Dimensions



Outdoor bracket

(Unit: inch, in the parentheses is mm)

Ordering information

Certificate No.: 1 BCT12HC-1418E; 2 BCT12HC-1419E.

PTZ Dome Camera Part Numbering

Туре	Bubble	23X D/N	28X D/N	36X D/N
Outdoor Pendant Mount	Vandal-Resistant Clear	V1747A-C0C3B6E2	V1748A-C0C3B6E2	V1743A-C0C3B6E2
NTSC Camera 24VAC	Vandal-Resistant Smoked	V1747A-C0S3B6E2	V1748A-C0S3B6E2	V1743A-C0S3B6E2
Outdoor Pendant Mount	Vandal-Resistant Clear	V1747A-C1C3B6E2	V1748A-C1C3B6E2	V1743A-C1C3B6E2
PAL Camera 24VAC	Vandal-Resistant Smoked	V1747A-C1S3B6E2	V1748A-C1S3B6E2	V1743A-C1S3B6E2

Part Number Extensions for Power Input Selection

12VDC	24VAC	EX: 12VDC Input	EX: 24VAC Input
5	6	V1747A-C0C3C5E2	V1747A-C0C3C6E2

Accessories

V1761 Wall Mount, 10 inch, 1.5 inch NPT
V1761L Wall Mount, 17 inch, 1.5 inch NPT
V1762 Corner Mount, 10 inch, 1.5 inch NPT
V1763 Pole Mount, 10 inch, 1.5 inch NPT

V1764A Outdoor Pendent Mount, 15 inch, side opening for wiring,

1.5 inch NPT

For detailed information, refer to V1760 series indoor/outdoor dome mounts.

V1764B Outdoor Pendent Mount, 15 inch, top opening for wiring,

1.5 inch NPT

V1765 Over-roof Side wall mount, 12 inch, 1.5 inch NPT

V1765A Over-roof horizontal Surface mount accessory, use together

with V1765

Mounting



Wall Mounting



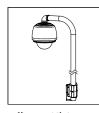
Contract Monathers



Pole Mounting



Period of Mountain,



Overload Side Wild Woodbrig



Over and temzo, the Scalane Modeling

V1492 Series





















- Compatible with various SONY and HITACHI camera modules
- High-strength aluminum-alloy casting, heat-resistant, anti-corrosion
- Compatible with INFINOVA and PELCO-P/D protocols
- Up to 254 camera addresses
- Privacy mask
- Direction display
- 360° continuous Pan rotation and +40°~-90° Tilt rotation
- Up to 100% Pan rotation speed and 30% Tilt rotation speed
- Window wiper, built-in heater and window defroster/defogger, applicable for various weather
- conditions
- Operational in 90 mph wind conditions; withstanding wind velocity of up to 130 mph
- IP66 environment rating

V1492 series integrated high-speed PTZ camera system combines a decoder, a PTZ camera and housing, together with a programmable camera module and wiper. The camera module consists of an auto zoom camera and a lens. The wiper is installed directly onto the housing without affecting the camera's field of view. In addition, the wiper can be turned on/off via program control and is easily replaced.

Use of high-strength aluminum alloy materials makes V1492 series suitable for both indoor and outdoor applications. The system has an operating temperature range of -40°F~140°F (-40°C~60°C). At a very low temperature, the built-in heater can be automatically enabled to ensure the system works normally. In addition, a built-in defroster and defogger can be enabled using program control to address harsh conditions.

The V1492 series enables the following rotation speed: $0.1\%\sim50\%$ for 360° continuous pan rotation; $0.1\%\sim25\%$ for +40°~-90° tilt rotation; 100% for Preset pan rotation; 30% for Preset tilt rotation. The cameras are powered by 24VAC/24VDC/110VAC/230VAC.

Lens	
Optic Zoom	23X, 36X
Digital Zoom	1~12X Adjustable
Aperture/	23X: F1.6~F3.7; f=3.6~82.8mm
Focal Length	36X: F1.6- F4.5; f=3.4~122.4mm
Angle of View	23X: 54° (Wide)/2.5° (Tele) 36X: 57.8° (Wide)/1.7° (Tele)
Min. Work Distance	23X: 0.01m (Wide) ~ 1.0m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele)
Camera	
Scanning System	2:1 Interlace Scanning
Video Type	PAL/NTSC (D/N)
Image Sensor	1/4" Progressive scanning CCD
Effective Pixels (H×V)	PAL/440K: 752×582; NTSC/380K: 768×494
Sensitivity (23X)	Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s)
Sensitivity (36X)	Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC:1/4s)
S/N Ratio	>50dB
Sync System	Internal/External
Focus	Auto / Manual / M/A
Iris	Auto / Manual / M/A
Shutter Speed (23X)	Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s
Shutter Speed (36X)	Auto: Default Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s
DSS	Available
Image	
Horizontal Resolution	23X: 540TVL 36X: 550TVL
White Balance (23X))	AUTO/MANU/SODI/MERC
White Balance (36X)	AUTO/MANU/ATW/INDOOR/OUTDOOR
WDR	23X: OFF/WDR/AD WDR/WDR*/AD WDR* 36X: ON/OFF

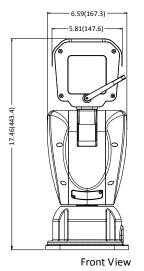
FNR 23X: OFF/AUTO/MANU 36X: AUTO (5-level adjustable)/OFF EIS 36X: ON/OFF BLC ON/OFF Operational Decoder INFINOVA, PELCO-P/D Presets 254 (maximum) Tours 6 Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X) Zones 4 (23X)	
BLC ON/OFF BLC ON/OFF Operational Decoder INFINOVA, PELCO-P/D Presets 254 (maximum) Tours 6 Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
BLC ON/OFF Operational Decoder INFINOVA, PELCO-P/D Presets 254 (maximum) Tours 6 Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
Operational Decoder INFINOVA, PELCO-P/D Presets 254 (maximum) Tours 6 Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
Decoder INFINOVA, PELCO-P/D Presets 254 (maximum) Tours 6 Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
Tours 6 Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
Patterns 4 Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
Auto Pan 4 Auto Scan 1 Spherical Privacy 24 (36X)	
Auto Scan 1 Spherical Privacy 24 (36X)	
Spherical Privacy 24 (36X)	
Video Blanking Sectors 16 areas	
Interface	
Video Output 1.0±0.2Vp-p	
Mechanical	
Variable Speed Pan: 0.1%s~50%s; Tilt: 0.1%s~25%s	
Preset Speed Pan: 100%s (max.); Tilt: 30%s (max.)	
Rotation Angle Pan: 360°; Tilt: +40°~-90°	
Mounting Surface, Wall, Pole Side, Corner, Pole To	n
Physical	
Construction High-strength aluminum alloy, stainless steel	
Environmental Rating IP66	
Load Pan: 22lbs. (10kg); Tilt: 7.7lbs. (3.5kg)	
Product Weight 21.16lbs. (9.6kg)	
Shipping Weight 30.86lbs (14kg)	
Box Dimension 22.99"×16.81"×10.00"	
(L×W×H) (584mm×427mm×254mm)	
Electrical	
Power Supply 24VAC/24VDC/110VAC/230VAC	
24VAC: 53W; 24VDC: 46W; 110VAC: 56W; 230VAC: 59W	
Thermostatically controlled, Heater Turn on at 50°F±9°F (10°C±5°C); Turn off at 86°F±9°F (30°C±5°C)	
Environmental	
Atmospheric Pressure ≤1.5MPa	
Operating Temp40°F~140°F (-40°C~60°C)	
Storage Temp40°F~140°F (-40°C~60°C)	
Operating Humidity 0~95%RH (non-condensing)	
Certifications and Approval Product Certifications CE ¹ , LVD ² , FCC ³ , ISO 9001:2008	

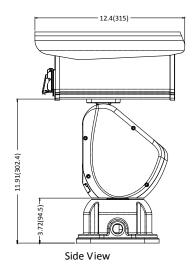
Certificate No.: 1 RSZ07121702-1&2; 2 BCT08KC-880S; 3 RSZ07121702.

Ordering information

V1492-23A05	Integrated High-speed PTZ Camera System
	(23X, Day/night, NTSC, 24VDC)
V1492-36A05	Integrated High-speed PTZ Camera System
	(36X, Day/night, NTSC, 24VDC)
V1492-23A06	Integrated High-speed PTZ Camera System
	(23X, Day/night, NTSC, 24VAC)
V1492-36A06	Integrated High-speed PTZ Camera System
	(36X, Day/night, NTSC, 24VAC)
V1492-23A07	Integrated High-speed PTZ Camera System
	(23X, Day/night, NTSC, 110VAC)
V1492-36A07	Integrated High-speed PTZ Camera System
	(36X, Day/night, NTSC, 110VAC)
V1492-23A15	Integrated High-speed PTZ Camera System
	(23X, Day/night, PAL, 24VDC)
V1492-36A15	Integrated High-speed PTZ Camera System
	(36X, Day/night, PAL, 24VDC)
V1492-23A16	Integrated High-speed PTZ Camera System
	(23X, Day/night, PAL, 24VAC)
V1492-36A16	Integrated High-speed PTZ Camera System
	(36X, Day/night, PAL, 24VAC)
V1492-23A18	Integrated High-speed PTZ Camera System
	(23X, Day/night, PAL, 230VAC)
V1492-36A18	Integrated High-speed PTZ Camera System
	(36X, Day/night, PAL, 230VAC)

Dimensions



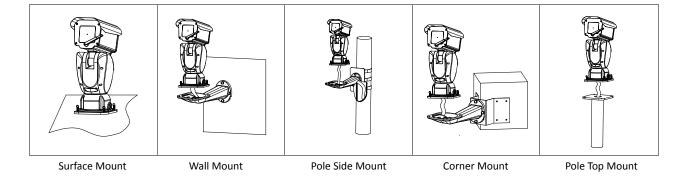


(Unit: inch, in the parentheses is mm)

Recommended Installation Mounts

V1662-W1 Wall Mount, 15 inch V1662-S1 Pole Side Mount, 15 inch V1662-C1 Corner Mount, 15 inch

Mounting



V1492IR-1 Series























- Compatible with SONY camera module
- High strength aluminum-alloy casting, heat and corrosion resistant
- The coverage distance of LED Array up to 330 ft. (100 m) for nighttime viewing even in total darkness
- IR illuminator automatically turned on or off as per the ambient light, also under manual control
- Integrated with INFINOVA, PELCO-P/D protocol (Autosensing) and Up-the-coax protocol
- Sets address and baud rate via software or DIP switch, up to 254 selectable addresses
- 254 presets, 6 tours, 4 patterns, 4 Auto-Pan and 1 Auto-Scan
- Home return
- Privacy mask
- Direction display
- 16 programmable zones with 16 characters each
- 360° continuous pan rotation
- Unobstructed +40° ~ -90° Vertical Tilt Range
- Window wiper, built-in heater and window defroster/defogger included
- Operational in 90 mph wind conditions; withstanding wind velocity of up to 130 mph
- IP 66 rating

V1492IR-1 series integrated high-speed PTZ camera systems with IR illuminators represent a state-of-the-art line of indoor or outdoor cameras ideal for a variety of applications. The cameras feature a powder-coated, aluminum construction, and an integrated camera sled assembly. A built-in heater, window defroster/ defogger with wiper and sun shield are standard features on the V1492IR-1 series.

With a light wavelength of 850nm, the camera's coverage distance of LED array reaches 330 ft. (100 m) for nighttime viewing, even in total darkness. Low power consumption and a unique temperature control technology ensure a long IR illuminator service life. In addition, the system employs reinforcement seals to achieve high anti-vibration, dustproof and rain-proof standards.

The integrated camera module includes an auto focusing camera and a lens. The wiper is integrated directly onto the housing without affecting the camera's field of view. In addition, the wiper can be turned on/off via program control and is easily replaced.

Use of high-strength aluminum alloy materials makes it suitable for both indoor and outdoor applications. The system has an operating temperature range of -40°F 140 °F (-40°C 60 °C). At a very low temperature, the built-in heater can be automatically enabled to ensure the system works normally. In addition, a built-in defroster and defogger can be enabled using the program control to address harsh conditions.

The cameras are powered by 24VAC / 24VDC / 110VAC / 230VAC.

Lens Optic Zoom 23X, 36X Digital Zoom 1~12X Adjustable Aperture/ 23X: F1.6~F3.7; f=3.6~82.8mm Focal Length 36X: F1.6~F4.5; f=3.4~122.4mm Angle of View 36X: F1.6~F4.5; f=3.4~122.4mm Angle of View 36X: 57.8" (Wide)/2.5" (Tele) Min. Work Distance 23X: 0.01m (Wide) ~ 1.0m (Tele) Scanning System 2:1 Interlace Scanning Video Type PAL/NTSC (D/N) Image Sensor 1/4" Progressive scanning CCD Effective Pixels (H×V) PAL/440K: 752×582; NTSC/380K: 768×494 Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/5s, NTSC:1/4s) 8/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/5s, NTSC: 1/6s) O.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) RMode: 0 lux S/N Ratio >50dB Sync System Internal/External		
Digital Zoom		
Aperture/ Focal Length 36X: F1.6~F3.7; f=3.6~82.8mm 36X: F1.6~F4.5; f=3.4~122.4mm 23X: 54" (Wide)/L.7" (Tele) 36X: 57.8" (Wide)/1.7" (Tele) 36X: 0.32 m (Wide) ~ 1.0m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele) Camera Scanning System 2:1 Interlace Scanning Video Type PAL/NTSC (D/N) Image Sensor 1/4" Progressive scanning CCD Effective Pixels (H×V) PAL/440K: 752×582; NTSC/380K: 768×494 Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W m	Optic Zoom	23X, 36X
Social Length 36X: F1.6-F4.5; f=3.4~122.4mm 23X: 54* (Wide)/2.5* (Tele) 36X: 57.8* (Wide)/2.5* (Tele) 36X: 57.8* (Wide)/2.5* (Tele) 36X: 57.8* (Wide)/2.5* (Tele) 36X: 0.01m (Wide) ~ 1.0m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele) 23X: 0.01m (Wide) ~ 1.5m (Tele) 36X: 0.32 m (Wide	-	•
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Min. Work Distance	Angle of View	
Scanning System 2:1 Interlace Scanning	Min. Work Distance	, , , , , ,
Video Type Image Sensor I/4" Progressive scanning CCD Effective Pixels (H×V) PAL/440K: 752×582; NTSC/380K: 768×494 Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) IR Mode: 0 lux S/N Ratio S50dB Sync System Internal/External Focus Auto / Manual / M/A Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Manual: PAL: 1/1-1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution WDR 23X: 540TVL 36X: 550TVL White Balance (36X) AUTO/MANU/SODI/MERC WDR	Camera	
1/4" Progressive scanning CCD	Scanning System	2:1 Interlace Scanning
Effective Pixels (H×V) PAL/440K: 752×582; NTSC/380K: 768×494 Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) IR Mode: 0 lux S/N Ratio Sync System Internal/External Focus Auto / Manual / M/A Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Manual: PAL: 1/1-1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC WDR	Video Type	PAL/NTSC (D/N)
Color Mode: 0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) IR Mode: 0 lux S/N Ratio Sold Sync System Internal/External Focus Auto / Manual / M/A Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Manual: PAL: 1/1-1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X) AUTO/MANU/SODI/MERC WDR	Image Sensor	1/4" Progressive scanning CCD
0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux Color mode: 0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) IR Mode: 0 lux S/N Ratio Sold Sync System Internal/External Focus Auto / Manual / M/A Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Manual: PAL: 1/1-1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution White Balance (23X) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/SODI/MERC WDR	Effective Pixels (H×V)	PAL/440K: 752×582; NTSC/380K: 768×494
0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) IR Mode: 0 lux S/N Ratio S>50dB Sync System Internal/External Focus Auto / Manual / M/A Iris Auto / Manual / M/A Auto: Default Shutter Speed (23X) Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Shutter Speed (36X) Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR	Sensitivity (23X)	0.02 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) B/W Mode: 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/50s, NTSC:1/60s) 0.01 lux @F1.6 (30 IRE. AGC max. PAL: 1/3s, NTSC:1/4s) IR Mode: 0 lux
Sync System Focus Auto / Manual / M/A Iris Auto / Manual / M/A Auto: Default Shutter Speed (23X) Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Shutter Speed (36X) Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR	Sensitivity (36X)	0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC: 1/60s) 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode: 0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC:1/4s)
Focus Auto / Manual / M/A Iris Auto / Manual / M/A Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Shutter Speed (36X) Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR	S/N Ratio	>50dB
Iris Auto / Manual / M/A Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Shutter Speed (36X) Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR	Sync System	Internal/External
Auto: Default Manual: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s Auto: Default Shutter Speed (36X) Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	Focus	Auto / Manual / M/A
Shutter Speed (23X) Manual:	Iris	Auto / Manual / M/A
Shutter Speed (36X) Manual: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s DSS Available Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	Shutter Speed (23X)	Manual:
Image Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) AUTO/MANU/SODI/MERC White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR WDR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	Shutter Speed (36X)	Manual:
Horizontal Resolution 23X: 540TVL 36X: 550TVL White Balance (23X)) White Balance (36X) AUTO/MANU/SODI/MERC AUTO/MANU/ATW/INDOOR/OUTDOOR WDR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	DSS	Available
White Balance (23X)) White Balance (36X) White Balance (36X) WDR 36X: 550TVL AUTO/MANU/SODI/MERC AUTO/MANU/ATW/INDOOR/OUTDOOR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	Image	
White Balance (36X) AUTO/MANU/ATW/INDOOR/OUTDOOR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	Horizontal Resolution	
WDR 23X: OFF/WDR/AD WDR/WDR*/AD WDR*	White Balance (23X))	AUTO/MANU/SODI/MERC
WDR	White Balance (36X)	AUTO/MANU/ATW/INDOOR/OUTDOOR
	WDR	

FNR	23X: OFF/AUTO/MANU 36X: AUTO (5-level adjustable)/OFF
EIS	36X: ON/OFF
BLC	ON/OFF
Operational	
Decoder	INFINOVA, PELCO-P/D
Presets	254
Tours	6
Patterns	4
Auto Pan	4
Auto Scan	1
Address	1~254
Spherical Privacy Zones	24 (36X) 4 (23X)
Video Blanking	16 areas
Sectors	10 di Cd3
Interface	4.0.10.21/
Video Output Mechanical	1.0±0.2Vp-p
Variable Speed	Pan: 0.1°/s~50°/s; Tilt: 0.1°/s~18°/s
Preset Speed	Pan: 100% (max.); Tilt: 30% (max.)
Rotation Angle	Pan: 360°; Tilt: +40°~-90°
Mounting	Surface, Wall, Pole Side, Corner
Physical	Surface, Wall, Fole Side, Cornel
Construction	High-strength aluminum alloy, stainless steel
Environmental Rating	IP66
IR LED	Wave length: 850nm; Coverage distance: 330ft (100m)
Load	Pan: 22lbs. (10kg); Tilt: 7.7lbs. (3.5kg)
Product Weight	24.25 (11kg)
Shipping Weight	31.31 lbs (14.2kg)
Box Dimension	22.99"×16.81"×10.00"
(L×W×H)	(584mm×427mm×254mm)
Electrical	
Power Supply	24VAC/24VDC/110VAC/230VAC
Power Consumption	144W (max.)
Heater	Thermostatically controlled, Turn on at 50°F±9°F (10°C±5°C); Turn off at 86°F±9°F (30°C±5°C)
Environmental	· · ·
Atmospheric Pressure	≤1.5MPa
Operating Temp.	-40°F~140°F (-40°C~60°C)
Storage Temp.	-40°F~140°F (-40°C~60°C)
Operating Humidity	0~95%RH (non-condensing)
Certifications and Ap	
Product Certifications	CE, LVD, FCC, ISO 9001:2008

Ordering information

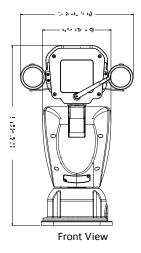
V1492IR-23A05-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 23X optical zoom, Day/night, NTSC, 24VDC
V1492IR-36A05-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 36X optical zoom, Day/night, NTSC, 24VDC
V1492IR-23A06-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 23X optical zoom, Day/night, NTSC, 24VAC
V1492IR-36A06-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 36X optical zoom, Day/night, NTSC, 24VAC
V1492IR-23A07-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 23X optical zoom, Day/night, NTSC, 110VAC
V1492IR-36A07-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 36X optical zoom, Day/night, NTSC, 110VAC
V1492IR-23A15-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 23X optical zoom, Day/night, PAL, 24VDC
V1492IR-36A15-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 36X optical zoom, Day/night, PAL, 24VDC
V1492IR-23A16-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 23X optical zoom, Day/night, PAL, 24VAC
V1492IR-36A16-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 36X optical zoom, Day/night, PAL, 24VAC
V1492IR-23A18-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 23X optical zoom, Day/night, PAL, 230VAC
V1492IR-36A18-1	Analog Integrated High-speed PTZ Camera System with IR Illuminators, 36X optical zoom, Day/night,

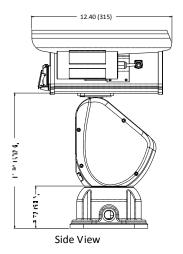
Recommended Installation Mounts

V1662-W1	Wall Mount, 15 inch
V1662-S1	Pole Side Mount, 15 inch
V1662-C1	Corner Mount, 15 inch

PAL, 230VAC

Dimensions





(Unit: inch, in the parentheses is mm)

Mounting





Surface Mount

Wall Mount





Pole Side Mount

Corner Mount

Camera Accessories



V1112 Series IR Fixed-Focal 1/3" Lenses w/DC Auto Iris





- 4.0 mm and 8.0 mm focal lengths
- DC auto iris
- Functions in both visible and IR wavelength ranges, and is well suited for day/night cameras
- Dynamic auto aperture range from F/1.2 ~ F/360 under visible light conditions
- Multi-coated
- Locking mechanism built into rings
- Built-in slip mount mechanism
- Environmentally conscious design
- Light weight and compact chassis

V1112 series IR fixed-focal 1/3" lenses w/DC auto iris correct aberrations that occur in both visible light and infrared (IR) light, producing a clear image under either type of lighting. The lenses are multi-coated to reduce ghosting and flare caused by backlighting, ensuring high contrast even under such adverse conditions. They are available in 4.0 mm and 8.0 mm focal lengths.

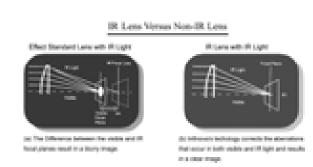


Image Size	1/3"
Mount	CS
Focal Length	V1112-4: 4.0 mm; V1112-8: 8.0 mm
Aperture	F/1.2 ~ F/360
Angle of View (Horizontal × Vertical)	V1112-4: 65.6°×49.7°; V1112-8: 34.5°×25.7°
Iris	DC auto iris
Focus	Manual

Minimum Object Distance	0.66 ft. (0.2 m)
Maximum Barrel	1.36" (34 mm Ø)
Diameter Length	1.38" (35 mm)
Weight	0.088 lbs. (40 g)
Certifications and App	proval
Product Certifications	CE, ISO 9001: 2008

Ordering information

V1112-4 Lens, IR correction, f=4.0mm, F/1.2, DC auto iris, 1/3 inch, CS V1112-8 Lens, IR correction, f=8.0mm, F/1.2, DC auto iris, 1/3 inch, CS

V1122 Series Vari-Focal 1/3" Lenses w/DC Auto Iris





- 3~8 mm, 2.8~12 mm and 5~50 mm vari-focal
- Available in DC auto iris
- Dynamic auto aperture down to F/360 under visible light conditions
- Aspherical technology provides high image quality
- Multi-coated
- Locking mechanism built into rings
- Built-in slip mount mechanism

V1122 series vari-focal 1/3" lenses w/DC auto irises provide tremendous installation flexibility by allowing a wide range of adjustment to get exactly the coverage required. The lenses are multi-coated to reduce ghosting and flare caused by backlighting, ensuring high contrast even under such adverse conditions. They are available in 3^8 mm, 2.8^12 mm and 5^50 mm vari-focal lengths.

Image Size	1/3"
ū	1-
Mount	CS
	V1122-308: 3.0~8 mm;
Focal Length	V1122-2812: 2.8~12 mm;
	V1122-550: 5.0~50 mm
	V1122-308: F/1.0 ~ F/360;
Aperture	V1122-2812: F/1.4 ~ F/360;
	V1122-550: F/1.4 ~ F/360
	V1122-308:
Angle of View	91.0°×66.6° (Wide), 35.9°×26.9° (Tele);
Angle of View	V1122-2812:
(Horizontal × Vertical)	97.4°×72.5° (Wide), 24.1°×18.1° (Tele);
	V1122-550:
	53.6°×40.3° (Wide), 5.6°×4.2° (Tele)
Iris	DC auto iris
Focus	Manual

Zoom	Manual
Minimum Object Distance	V1122-308: 0.66 ft. (0.2 m); V1122-2812: 1.0 ft. (0.3 m); V1122-550: 3.28 ft. (1.0 m)
Maximum Barrel Diameter	V1122-308: 1.30" (33 mm Ø); V1122-2812: 1.61" (41 mm Ø); V1122-550: 1.57" (40 mm Ø)
Length	V1122-308: 1.65" (42 mm); V1122-2812: 2.32" (59 mm); V1122-550: 2.32" (59 mm)
Weight	V1122-308: 0.104 lbs. (47 g); V1122-2812: 0.157 lbs. (71 g); V1122-550: 0.185 lbs. (84 g)
Certifications an	d Approval
Product Certifications	CE, ISO 9001: 2008

Ordering information

V1122-308	Lens, f=3.0-8mm, F/1.0, DC auto iris, 1/3 inch, CS
V1122-2812	Lens, f=2.8-12mm, F/1.4, DC auto iris, 1/3 inch, CS
V1122-550	Lens, f=5-50mm, F/1.4, DC auto iris, 1/3 inch, CS

V1132 Series IR Vari-Focal 1/3" Lenses w/DC Auto Iris









- 3.0~8.5 mm, 2.8~12 mm and 7.5~50 mm vari-focal
- Available in DC auto iris
- Functions in both visible and IR wavelength range are well suited for day/night cameras
- High quality image based on aspherical technology
- Multi-coated
- Environmentally conscious design

V1132 series IR vari-focal 1/3" lenses w/DC auto irises provide tremendous installation flexibility by allowing a wide range of adjustment to get exactly the coverage required. They also correct aberrations that occur in both visible light and infrared (IR) light, producing a clear image under either type of lighting. The lenses are multi-coated to reduce ghosting and flare caused by backlighting, ensuring high contrast even under such adverse conditions. They are available in 3.0~8.5 mm, 2.8~12 mm and 7.5~50 mm vari-focal lengths.

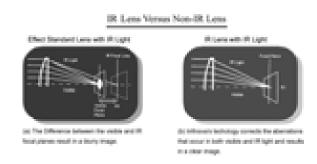


Image Size	1/3"
Mount	CS
	V1132-3085: 3.0~8.5 mm;
Focal Length	V1132-2812: 2.8~12 mm;
	V1132-7550: 7.5~50 mm
	V1132-3085: 7.94~13.96 mm;
Back Focus	V1132-2812: 8.1~20.2 mm;
	V1132-7550: 11.96~9.61 mm
	V1132-3085: 7.94 mm;
Mechanical Bf	V1132-2812: 8.1 mm;
	V1132-7550: 8.1 mm
	V1132-3085: F/1.0~ F/360;
Iris Range	V1132-2812: F/1.2~ F/360;
	V1132-7550: F/1.3~ F/360
	V1132-3085: 0.2 m~ infinity;
Focus Range	V1132-2812: 0.2 m~ infinity;
	V1132-7550: 0.4 m~ infinity
	V1132-3085: 3.0~8.5 mm;
Zoom Range	V1132-2812: 2.8~12 mm;
	V1132-7550: 7.5~50 mm
	V1132-3085: Ø 20.1 mm / Ø 9.0 mm;
Front/Rear Aperture	V1132-2812: Ø 20.9 mm / Ø 8.9 mm;
	V1132-7550: Ø 25.7 mm / Ø 9.8 mm

Angle of View (Horizontal × Vertical)	V1132-3085: 90.5°×67.2° (Wide), 33.6°×25.2° (Tele); V1132-2812: 98.5°×73° (Wide), 23.8°×17.8° (Tele); V1132-7550: 36.6°×27.4° (Wide), 5.64°×4.26° (Tele)
Iris	DC auto iris
Focus	Manual
Zoom	Manual
Dimensions (ØW×H×L)	V1132-3085: 1.38"×1.87"×1.81" (35 mm×47.4 mm×46 mm); V1132-2812: 1.38"×1.89"×2.10" (35 mm×47.9 mm×53.3 mm); V1132-7550: 1.50"×1.97"×2.17" (38 mm×50.1 mm×55.2 mm)
Driving Coil / Damping Coil	V1132-3085: 190 Ohm / 855 Ohm; V1132-2812: 190 Ohm / 855 Ohm; V1132-7550: 190 Ohm / 1310 Ohm
Certifications and App	proval
Product Certifications	CE, ISO 9001: 2008

Ordering information

V1132-3085	Lens, IR correction, f=3.0-8.5mm, F/1.0, DC auto iris, 1/3 inch, CS, Aspherical
V1132-2812	Lens, IR correction, f=2.8-12mm, F/1.2, DC auto iris, 1/3 inch, CS, Aspherical
V1132-7550	Lens, IR correction, f=7.5-50mm, F/1.3, DC auto iris, 1/3 inch, CS, Aspherical

V1162 Series Motorized Zoom 1/3" Lenses w/DC Auto Iris





- 6~60 mm focal length
- Available in DC auto iris
- Built-in slip mount mechanism, and detachable connection design for easy installation
- Multi-coated
- Environmentally conscious design

V1162 series high definition motorized zoom lenses provide a 10:1 ratio zoom, allowing surveillance personnel to quickly and dependably adjust the camera view. They also correct aberrations that occur in visible light, producing a clear image. The lenses are multi-coated to reduce ghosting and flare caused by backlighting, ensuring high contrast even under such adverse conditions. They have a $6^{\sim}60$ mm focal length.

Image Size	1/3"
Mount	CS
Focal Length	6~60 mm
Aperture	F/1.4~ F/360
Angle of View (Horizontal × Vertical)	43.4°x32.7° (Wide); 4.5°x3.4° (Tele)
Iris	DC auto iris
Focus	Motorized
Zoom	Motorized
Minimum Object Distance	3.94 ft. (1.2 m)
Maximum Barrel Diameter	2.8" W, 2.8" H (70 mm, 70 mm)
Filter Dimension	2.05" (52 mm)
Length	4.41" (112 mm)
Weight	0.84 lbs. (380 g)
Certifications and Ap	proval
Product Certifications	CE, ISO 9001: 2008

Ordering information

V1162-6x10 Motorized zoom Lens, f=6-60mm, F/1.4, DC auto iris, 1/3 inch, CS

V1182-3108R Series HD 3MP IR Vari-Focal 1/2.7" Lenses w/DC Auto Iris





- 3 Mega pixels
- DC auto iris
- Wide aperture of F1.2, optimizing the performance at low lighting intensity
- Broad range of f3.1~8mm, adapting various applications
- Precise Focus Adjustment
- IR corrected optics is suitable for day/night cameras
- Compact, light weight and robust design

V1182-3108R series HD 3MP IR lenses adopt the latest IR corrected, aspherical and ED (Extra-low Dispersion) optics, offering precise focus adjustment. Focus ring adjusting range can reach 180°.

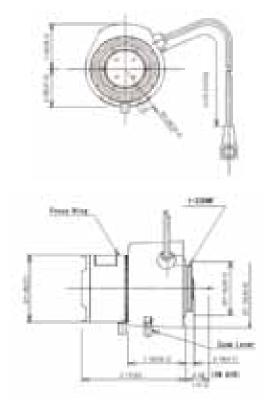
The lenses are able to correct the chromatic aberrations that occur in both visible light and infrared (IR) light, producing superb images under all kinds of light conditions. They can present clear images even the IR wavelength is 950nm. Unique HD optical design provides larger image circle for exceptional brightness and clarity in corners and throughout image plane.

Image Size		1/2.7"	
Mount		CS	
Focal Length		3.1~8mm	
Aperture		F1.2~F360C	
	D	123.1° ~ 48.3°	
Angle of View	Н	105.4° ~ 42.2°	
view	V	57.9° ~ 23.8°	
Iris		Auto (DC drive)	
Focus		Manual	
Zoom		Manual	
Focusing Rang	ge	0.3m~∞	
Effective	Front	Ø20.9mm	
Lens Aperture	Rear	Ø10.5mm	
Back Focal	Tele	7.8mm	
Length	Wide	7.8mm	
Flange Back Le	ength	12.5mm	
Weight		0.13 lbs. (59g)	
Dimensions (Ø	ó×L×W)	1.46"×2.17"×1.90" (37mm×55mm×48.2mm)	
Coil	Drive	190 Ohm	
Resistance	Damping	855 Ohm	
Operating Cur	rent	76 mA (Max.) at DC 4V	
Operating Ten	nperature	14°F~122°F (-10°C ~ 50°C)	
Certifications and Appro		oval	
Product Certifications		CE, ISO 9001: 2008	

Ordering information

V1182-3108R Lens, 3 Mega pixels, IR correction, f=3.1-8mm, F/1.2, DC auto iris, 1/2.7 inch, CS, Aspherical

Dimensions



(Unit: inch, in the parentheses is mm)

V1182-1250R Series HD 3MP IR Vari-Focal 1/2.7" Lenses w/DC Auto Iris





- 3 Mega pixels
- DC auto iris
- Wide aperture of F1.4, optimizing the performance at low lighting intensity
- Broad range of f12.5~50mm, adapting various applications
- Precise Focus Adjustment
- IR corrected optics is suitable for day/night cameras
- Compact, light weight and robust design

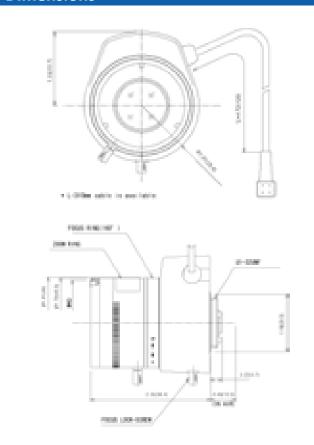
V1182-1250R series HD 3MP IR lenses feature high accuracy aspherical, IR corrected and ED (Extra-low Dispersion) optics, which optimize focusing and imaging. The lenses are able to correct the chromatic aberrations that occur in both visible light and infrared (IR) light, producing superb images under all kinds of light conditions. Besides, excellent coating technology is help to eliminate ghosting and flare.

Image Size		1/2.7"
Focal Length		12.5~50mm
Aperture		F1.4~F360C
Max. Image Fo	ormat	3.2mm × 5.8mm(φ 6.6mm)
	D	30.3° ~ 7.7°
Angle of View	Н	26.3° ~ 6.7°
VIEW	V	14.5° ~ 3.8°
Iris		Auto (DC drive)
Focus		Manual
Zoom		Manual
Focusing Rang	ge	1.0m~∞
Effective	Front	Ø21.7mm
Lens Aperture	Rear	Ø9.1mm
Back Focal	Tele	7.3mm
Length	Wide	11.6mm
Flange Back Le	ength	12.5mm
Mount		CS
Filter Size		M43 P=0.75mm
Weight		0.18 lbs. (83g)
Dimensions (Ø	Ø×L×W)	1.81"×2.30"×2.34" (46mm×58.4mm×59.3mm)
Coil	Drive	190 Ohm
Resistance	Damping	855 Ohm
Operating Ten	nperature	14°F~122°F (-10°C ~ 50°C)
Certifications and Approv		oval
Product Certifications		CE, ISO 9001: 2008

Ordering information

V1182-1250R Lens, 3 Mega pixels, IR correction, f=12.5-50mm, F/1.4, DC auto iris, 1/2.7 inch, CS, Aspherical

Dimensions



(Unit: inch, in the parentheses is mm)

V1182-2812R Series HD 2MP IR Corrected Lens





- 4.3X vari-focal mega CS mount lens
- DC iris
- 1/2.7" 2M/1080P HD sensor
- 2.8~12mm focal length
- 1:1.2 max., aperture of ratio (F/#1.2)
- Compact structure, easy to install

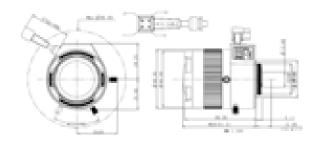
V1182-2812R series HD 2MP IR corrected lens can be fitted into such a compact package, like superb color reproduction and smooth images under moving objects. It's an innovative lens design technology and covers every detail in surveillance market.

General	Sensor	1/2.7" HD Sensor (2M)
Specification	Mount Type	CS Mount
	Focal Length	2.8mm(W)~12mm(T) (Comply to OV2715 1/2.7" 2M CMOS)
	Max. Aperture Ratio	1:1.2 (F/#1.2 +/-5%)
	Field of View	Wide: H: 118.3 °; V: 63.6 °; D:139.1 ° Tele: H: 29.1 °; V: 16.5°; D: 33.4°
	Total Length (TTL)	70.62mm(W)~47.89mm(T) (from 1st surface of lens to image sensor ; CG=0.5mm)
Optical Specification	Maximum Chief Ray Angle	<10°
	Back Focal Length (BFL)	Wide: 8.04mm (with 0.5mm CG) Tele: 17.66m (with 0.5mm CG)
		·
	Length (BFL)	Tele: 17.66m (with 0.5mm CG)
	Length (BFL) Focus Range Front Barrel	Tele: 17.66m (with 0.5mm CG) 1.5m ~ INF
	Length (BFL) Focus Range Front Barrel size Wavelength	Tele: 17.66m (with 0.5mm CG) 1.5m ~ INF 46 mm
	Length (BFL) Focus Range Front Barrel size Wavelength Range	Tele: 17.66m (with 0.5mm CG) 1.5m ~ INF 46 mm 440nm~1000nm
Certification	Length (BFL) Focus Range Front Barrel size Wavelength Range IRIS/IR Cut RoHS/Green	Tele: 17.66m (with 0.5mm CG) 1.5m ~ INF 46 mm 440nm~1000nm DC Motor IRIS Comply

Ordering information

V1182-2812R HD 2MP IR corrected lens, 1/2.7", f=2.8-12mm, DC iris, CS mount, F/1.2

Dimensions



(Unit: mm)

V1182-0550R Series







- 1.3Mpx
- DC auto iris
- Able to correct the chromatic aberrations that occur in both visible light and infrared (IR) light, applicable for day/night camera
- Aspherical lens to offer you excellent image of high resolution and contrast
- Compact structure, easy to install

Infinova's V1182-0550R series HD 1.3MP IR lenses which feature wide aperture of F1.6 and broad range of 5-50mm are particularly suitable for day/night camera. Able to correct the chromatic aberrations that occur in both visible light and infrared (IR) light, this series lens offers you superb images under all kinds of light conditions.

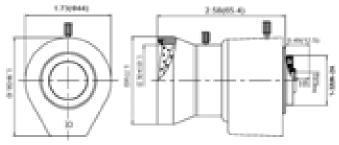
Sensor		CCD/CMOS	
Image Size		1/3"	
Focal Length		5-50mm	
Aperture (F/#)		1.6~360	
	Zoom	Manual	
Operation	Focus	Manual	
	Iris	Auto (DC drive)	
Angle of View (F.0	D.V.) (D/H/V)	63.5°~7.2°/50°~5.7°/36.5°~4.3°°	
Back Focal Length		7.57~11.87mm	
Effective	Front	Ø36.2mm	
Aperture	Back	Ø8.6mm	
Mount		CS	
Dimensions (Ø×L×W)		1.77"×2.57"×1.99" (45mm×65.4mm×50.6mm)	
M.O.D		0.2m~1.8m	
Lens Construction		12-10	
Certifications and Approval			
Product Certifications		CE, ISO 9001: 2008	

Ordering information

V1182-0550R Lens, 1.3 Mega pixels, IR correction, f=5-50mm, F/1.6,

DC auto iris, 1/3"inch, CS, Aspherical

Dimensions



(Unit: inch, in the parentheses is mm)

V1182-3312**R** Series HD 2 MP IR Vari-Focal 1/2.7" Lenses w/DC Auto Iris





- 2.0 Mpx
- DC auto iris
- Able to correct the chromatic aberrations that occur in both visible light and infrared (IR) light, applicable for day/night camera
- Aspherical lens to offer you excellent image of high resolution and contrast
- Compact structure, easy to install

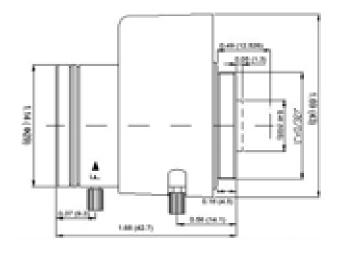
Infinova's V1182-3312R series megapixel IR vari-focal lens which features wide aperture of F1.4 and broad range of 3.3-12mm is particularly suitable for day/night camera. Able to correct the chromatic aberrations that occur in both visible light and infrared (IR) light, this series lens offers you superb images under all kinds of light conditions.

Image Size		1/2.7"
Focal Length		3.3-12mm
Aperture (Max.))	1/1.4
	Zoom	Manual
Operation	Focus	Manual
	Iris	Auto (DC drive)
Angle of View (Horizontal)	79.3°~29.8°
Mount		CS
M.O.D		0.2m
Operating	c→o	0.9V~3V
Voltage	o→c	0.5V min
Coil Resistance		Driving Coil: 200 Ohm±10%; Damping Coil: 560 Ohm±10%
Dimensions (Ø×L×W)		1.14"×1.68"×1.69" (29mm×42.7mm×43mm)
Weight		0.13lbs. (61.2g)
Certifications and Approval		
Product Certifications		CE, ISO 9001: 2008

Ordering information

V1182-3312R Lens, 2.0 Mega pixels, IR correction, f=3.3-12mm, F/1.4, DC auto iris, 1/2.7"inch, CS, Aspherical

Dimensions



(Unit: inch, in the parentheses is mm)

V1283 Series IR Illuminators





- Indoor/outdoor
- IR LED technology
- Automatic optical control
- Weather Resistant
- IR ranges of 328 ft. (100 m)

V1283 series IR illuminators allow IR sensitive cameras to provide surveillance even in total darkness at ranges up to 328 feet.

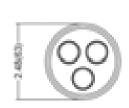
Radiant Distance	328' (100 m)
Beam Angle	18°
Wavelength	850 nm
Power Supply	12 VDC
Power	6 W
Consumption	o w
Operating	40°F ~ 140°F / 40°C ~ C0°C
Temperature	-40°F~ 140°F (-40°C ~ 60°C)
Dimensions	Ø2.48" × L5.35" (Ø63mm × L136mm)
Weight	1.380 lbs. (0.626 kg)

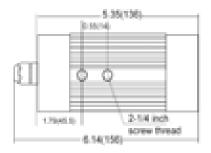
Ordering information

V1283-100-1 IR Illuminator, 328 feet (100 m), LED, 18 deg.,

850 nm, 12 VDC

Dimensions





(Unit: inch, in the parentheses is mm)

V1405 Series Indoor/Outdoor Mini Camera Housing





- Spring loaded top cover
- Rear lock-in latch connection
- Die-cast aluminum
- Indoor/outdoor installations
- IP66 standard
- Easy installation and maintenance
- Cable clamps and installation holes on the housing bottom

The V1405 series are affordable die-cast aluminum camera housings for both indoor and outdoor installations. The V1405 housings accommodate CCD cameras with fixed or vari-focal lens. The top cover is spring loaded to facilitate installation. There are two adjustable weatherproof cable clamps on the bottom for easy installation of video and power cables. A rear lock-in latch secures the spring-loaded cover for added security. The V1405 have a set of optional accessories which can be installed at the factory, including sunshield and heater. The input voltage is available in 24 VAC. The V1405 are compatible with small to medium size cameras, and can be installed on either fixed mounts or pan/tilts.

Electrical	
Input Voltage	24 VAC, 50/60 Hz
Power Consumption	25 W
Physical	
Camera Mounting	Multiple installation holes available on the camera supporting board, which is installed on the two narrow slots in the bottom groove for easy disassembly.
Internal Usable Dimensions (L×W×H)	V1405-7: 6.85"×3.54"×2.85" (174 mm×90 mm×72.5 mm) V1405-10: 9.84"×3.54"×2.85" (250 mm×90 mm×72.5 mm)
Window Thickness	0.16" (4 mm)
Window Dimensions (W×H)	2.64"×2.24" (67 mm×57 mm)
Cable Input	Two compressed cable glands with the max diameter of 0.48" (12 mm) available on the bottom
Lock-in Latch	Stainless steel; padlock (not included) can also be used to secure

Construction	Die-cast aluminum
	V1405-7: 19.49"×6.50"×6.26"
Box Dimensions	(495 mm×165 mm×159 mm)
(L×W×H)	V1405-10: 19.49"×6.50"×6.26"
	(495 mm×165 mm×159 mm)
	V1405-7: 4.19 lbs. (1.9 kg);
Unit Weight	V1405-10: 5.73 lbs. (2.6 kg)
ci w i.	V1405-7: 4.41 lbs. (2 kg)
Shipping Weight	V1405-10: 5.95 lbs. (2.7 kg)
Environmental	
Auto Controlled	Heater:
riato controllea	Turns on at $46^{\circ}F \pm 9^{\circ}F$ ($8^{\circ}C \pm 5^{\circ}C$);
Temperature	Turns off at 68°F ± 9°F (20°C ± 5°C)
Environment	Indoor/outdoor
Operating	23°F ~140°F (-5°C ~ 60°C);
Temperature	-13°F ~140°F (-25°C ~ 60°C) (w/ heater)
Certifications and A	Approval
Product Certifications	CE, ISO 9001: 2008

Ordering information

V1405-7	Camera housing, indoor/outdoor, 7 inch internal	Recommended I	nstallation Mounts
V1405-7S	Camera housing, indoor/outdoor, 7 inch internal,	Wall mount	
	w/ sun shield	V1571-W	Wall Mount, H/V adjustable for housing (V1405),
V1405-7SH	Camera housing, indoor/outdoor, 7 inch internal,		33.07 lbs. (15 kg) load
	w/ sun shield & heater, 24 VAC	V1572-W	Wall Mount, Non-Adjustable for housing (V1405,
V1405-10	Camera housing, indoor/outdoor, 10 inch internal		V1406, V1407), 121.25 lbs. (55 kg) load
V1405-10S	Camera housing, indoor/outdoor, 10 inch internal,	V1573	Mount Adapter, Adds H/V adjustability to
	w/ sun shield		V1572-W Wall Mount for housing (V1405, V1406,
V1405-10SH	Camera housing, indoor/outdoor, 10 inch internal,		V1407), 44.09 lbs. (20 kg) load
	w/ sun shield & heater, 24 VAC	V1574A	Pole Mount adapter for V1571-W
		V1574B	Pole Mount adapter for V1572-W
		Note: Order V15	72-W and V1573 at the same time.

V1406 Series







- Indoor/outdoor installations with fixed mount or pan/tilt
- Die-cast aluminum
- Front opening top cover with pneumatic strut
- Two cable entry ports on the housing bottom
- Rear lock-in latch connection
- IP66 standard
- Easy installation and maintenance
- Optional fan, heater, sunshield and rain wiper

The V1406 series are affordable die-cast aluminum housings for both indoor and outdoor installation. The V1406 series housings accommodate CCD cameras with fixed or vari-focal lens. A rear lock-in latch secures the top cover for added security. When the top cover is completely open, a unique pneumatic strut will support it. There are two adjustable cable clamps on the bottom for easy installation of power supply and video cable. V1406 series have an optional set of accessories which can be installed at the factory, including fan, heater, sunshield and rain wiper. The input voltage is available in 24 VAC. The V1406 series can be installed on either fixed mounts or pan/tilts.

Electrical			
Input Voltage	24 VAC, 50/60 Hz		
	Blower: 8 W;		
Power Consumption	Heater: 36 W;		
	Window Wiper: 5 W		
Physical			
Camera Mounting	Multiple installation holes available on the camera supporting board, which is installed on the two narrow slots in the bottom groove for easy disassembly. It can be conversely installed if elevation of the camera is needed.		
Internal Usable	V1406-11: 11.02"×4.92"×4.09"		
Dimensions (L×W×H)	(280 mm×125 mm×104 mm)		
Window Thickness	0.16" (4 mm)		
Window Dimensions (W×H)	4.02"×3.50" (102 mm×89 mm)		
Cable Input	Two compressed cable clamps with a maximum diameter of 0.48" (12 mm) available on the bottom		

Lock-in Latch	Stainless steel; padlock (not included) can also be used to secure
Construction	Die-cast aluminum
Box Dimensions	V1406-11: 25"×8.50"×7.01"
(L×W×H)	(635 mm×216 mm×178 mm)
Unit Weight	V1406-11: 11.02 lbs. (5 kg)
Shipping Weight	V1406-11: 13.45 lbs. (6.1 kg)
Environmental	
	Heater:
	Turns on at 46°F ± 9°F (8°C ± 5°C);
Auto Controlled	Turns off at 68°F ± 9°F (20°C ± 5°C)
Temperature	Blower:
	Turns on at $99^{\circ}F \pm 9^{\circ}F$ ($37^{\circ}C \pm 5^{\circ}C$);
	Turns off at $68^{\circ}F \pm 9^{\circ}F$ ($20^{\circ}C \pm 5^{\circ}C$)
Environment	Indoor/outdoor
Operating	23°F ~140°F (-5°C ~ 60°C);
Temperature	-13°F ~140°F (-25°C ~ 60°C) (w/ heater)
Certifications and Ap	pproval
Product Certifications	CE, ISO 9001: 2008

Ordering information

V1406-11	Camera housing, indoor/outdoor, 11 inch internal,	Recommended In	nstallation Mounts
	pneumatic supporting lid	Wall mount	
V1406-11S	Camera housing, indoor/outdoor, 11 inch internal,	V1572-W	Wall Mount, Non-Adjustable for housing (V1405,
	pneumatic supporting lid, w/ sun shield		V1406, V1407), 121.25 lbs. (55 kg) load
V1406-11SHB	Camera housing, indoor/outdoor, 11 inch internal,	V1573	Mount Adapter, Adds H/V adjustability to
	pneumatic supporting lid, w/ sun shield, heater		V1572-W Wall Mount for housing (V1405,
	&blower, 24 VAC		V1406, V1407), 44.09 lbs. (20 kg) load
V1406W	Wiper for V1406 camera housing, 24 VAC	V1574B	Pole Mount adapter for V1572-W
		Note: Order V157	22-W and V1573 at the same time.

V1407 Series Indoor/Outdoor_Large Camera Housing





- Indoor/outdoor installations with fixed mount or pan/tilt
- Die-cast aluminum
- Front opening top cover with pneumatic strut
- Two ports for cable glands on the housing bottom
- Side lock-in latch connection
- IP66 standard
- Easy installation and maintenance
- Optional blower, heater, sunshield and wiper

V1407 series are large camera housings for both indoor and outdoor applications. The V1407 series are made of die-cast aluminum and meets the requirements of even the most demanding CCTV projects. All V1407 series housings can accommodate cameras with either fixed or vari-focal lenses. The housing cover can be opened through side latches. When the top cover is completely open, a unique pneumatic strut will support the cover, allowing easy access to the interior. There are two adjustable cable glands on the bottom of the housing for easy installation of power supply and video cable. There are one (V1407-16) or two (V1407-22) lock-in latches on both sides of the housing. A padlock (not provided) can be used to secure the latching system to provide enhanced access security. The V1407 series have an optional set of accessories which can be installed at the factory, including sunshield, heater, fan and rain wiper. Input power is available at 24 VAC. The V1407 series can be installed on either fixed mounts or pan/tilts.

Electrical	
Input Voltage	24 VAC, 50/60 Hz
	Blower: 8 W;
Power Consumption	Heater: 36 W;
	Window Wiper: 5 W
Physical	
Camera Mounting	The camera supporting board is removable
camera moanting	and can be installed upside-down.
	V1407-16: 15.75"×7.87"×5.12"
Internal Usable	(400mm×200mm×130mm)
Dimensions (L×W ×H)	V1407-22: 21.77"×7.87"×5.12"
	(553mm×200mm×130mm)
Window Thickness	0.16" (4 mm)
Window Dimensions (W×H)	5.28"×4.25" (134 mm×108 mm)
	Two compressed cable clamps with a
Cable Input	maximum diameter of 0.48" (12 mm) are
	located on the bottom of the housing
	Stainless steel; padlock (not included) can
Lock-in Latch	also be used to secure

Construction	Die-cast aluminum	
Linit Maight	V1407-16: 14.33 lbs. (6.5 kg);	
Unit Weight	V1407-22: 15.43 lbs. (7.0 kg)	
Chinaina Waiaht	V1407-16: 16.53 lbs. (7.5 kg);	
Shipping Weight	V1407-22: 17.64 lbs. (8 kg)	
Environmental		
	Heater:	
	Turns on at 46 °F \pm 9°F (8°C \pm 5°C);	
Auto Controlled	Turns off at $68^{\circ}F \pm 9^{\circ}F$ ($20^{\circ}C \pm 5^{\circ}C$)	
Temperature	Blower:	
	Turns on at $99^{\circ}F \pm 9^{\circ}F$ ($37^{\circ}C \pm 5^{\circ}C$);	
	Turns off at $68^{\circ}F \pm 9^{\circ}F$ ($20^{\circ}C \pm 5^{\circ}C$)	
Environment	Indoor/outdoor	
Operating	23°F ~140°F (-5°C ~ 60°C);	
Temperature	-13°F ~140°F (-25°C ~ 60°C) (w/ heater)	
Certifications and Approval		
Product Certifications	CE, ISO 9001: 2008	

Ordering information

V1407-16	Camera housing, indoor/outdoor, 16 inch internal, pneumatic supporting lid	Recommended Inst Wall mount	callation Mounts
V1407-16S	Camera housing, indoor/outdoor, 16 inch internal, pneumatic supporting lid, w/ sun shield	V1572-W	Wall Mount, Non-Adjustable for housing (V1405, V1406, V1407), 121.25 lbs. (55 kg) load
V1407-16SHB	Camera housing, indoor/outdoor, 16 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 24 VAC	V1573	Mount Adapter, Adds H/V adjustability to V1572-W Wall Mount for housing (V1405, V1406, V1407), 44.09 lbs. (20 kg) load
V1407-22	Camera housing, indoor/outdoor, 22 inch internal,	V1574B	Pole Mount adapter for V1572-W
	pneumatic supporting lid	Note: Order V1572-	W and V1573 at the same time.
V1407-22S	Camera housing, indoor/outdoor, 22 inch internal, pneumatic supporting lid, w/ sun shield		
V1407-22SHB	Camera housing, indoor/outdoor, 22 inch internal, pneumatic supporting lid, w/ sun shield, heater & blower, 24 VAC		
V1407W	Wiper for V1407 camera housing, 24 VAC		

V1570 Series Housing Mounts





- For indoor/outdoor installations
- Die-cast aluminum
- Easy installation and maintenance

V1571-W is specially designed for use with Infinova's V1405 housing.

It features manual adjustments, 360° in horizontal direction and adjustments in vertical direction.

V1572-W is designed for V1405, V1406 and V1407 indoor/outdoor housings.

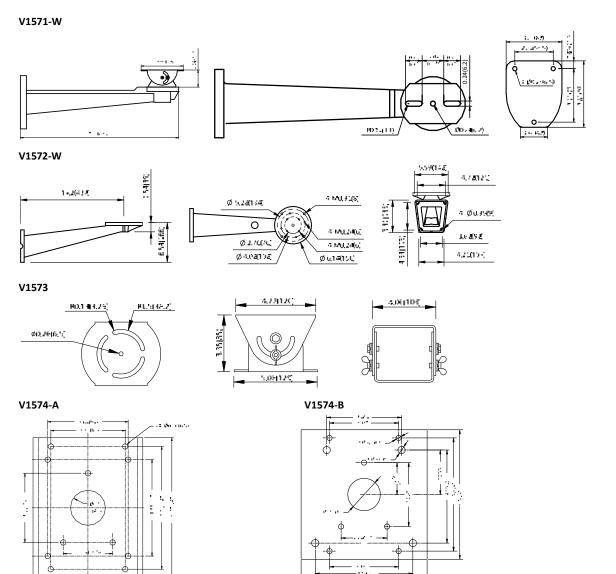
V1573 is specially designed for use with the V1572-W mounts to provide 360° horizontal adjustment and 180° vertical adjustment.

Housing Installation	V1571-W: Mounted with two M6x16 hexagon bolts; V1573: Mounted with two M6x16 hexagon bolts
Pan/Tilt	V1572-W: Mount the pan/tilt with four M6×16
Installation	hexagon bolts, washer and spring washer
Weight	V1571-W: 1.43 lbs. (0.65 kg); V1572-W: 5.51 lbs. (2.5 kg); V1573: 2.43 lbs. (1.1 kg) V1574A: 1.21 lbs. (0.55 kg); V1574B: 3.24 lbs. (1.47 kg);
Loading	V1571-W: 33.07 lbs. (15 kg); V1572-W: 121.25 lbs. (55 kg); V1573: 44.09 lbs. (20 kg)
Box Dimensions (L×W×H)	V1571-W: 12.20"×4.33"×3.35" (310mm×110mm×85mm); V1572-W: 21.26"×7.48"×6.70" (540mm×190mm×170mm) V1573: 5.31"×4.72"×3.94" (135mm×120mm×100mm) V1574A/B: 12.60"×9.25"×6.10" (320mm×235mm×155mm)

Ordering information

V1571-W	Wall Mount, H/V adjustable for housing (V1405),
	33.07 lbs. (15 kg) load
V1572-W	Wall Mount, Non-Adjustable for housing (V1405,
	V1406, V1407), 121.25 lbs. (55 kg) load
V1573	Mount Adapter, Adds H/V adjustability to
	V1572-W Wall, Mount for housing (V1405, V1406,
	V1407), 44.09 lbs (20 kg) load
V1574A	Pole Mount adapter for V1571-W
V1574B	Pole Mount adapter for V1572-W

Dimensions



(Unit: inch, in the parentheses is mm)

V1760 Series Indoor/Outdoor Dome Mounts





- For indoor/outdoor installations
- Die-cast aluminum
- Easy installation and maintenance

Ordering information

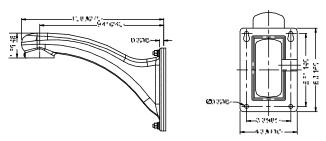
V1761	Wall Mount, 10 inch horizontal, 1.5 inch NPT	V1761S	Wall Mount, 316 Stainless Steel (only for V1750A
V1761L	Wall Mount, 17 inch horizontal, 1.5 inch NPT		pressurized domes)
V1762	Corner Mount, 10 inch horizontal, 1.5 inch NPT	V1762S	Corner Mount, 316 Stainless Steel (only for V1750A
V1763	Pole Mount, 10 inch horizontal, 1.5 inch NPT		pressurized domes)
V1764	Pendant Mount, 15 inch long vertical, 1.5 inch NPT	V1763S	Pole Mount, 316 Stainless Steel (only for V1750A
V1764A	Pendant Mount, 15 inch long vertical, 1.5 inch NPT,		pressurized domes)
	outdoor, side opening for wiring	V1761MS	Wall Mount, 6 inch horizontal, 1.5 inch NPT (only for
V1764B	Pendant Mount, 15 inch long vertical, 1.5 inch NPT,		mini domes)
	outdoor, top opening for wiring	V1762MS	Corner Mount, 6 inch horizontal, 1.5 inch NPT (only for
V1765	Parapet Mount, 12 inch horizontal, vertical attachment,		mini domes)
	1.5 inch NPT	V1763MS	Pole Mount, 6 inch horizontal, 1.5 inch NPT (only for
V1765A	Parapet Mount, V1765 horizontal attachment adapter		mini domes)
V1766	Indoor Drop Ceiling Panel, 2 feet × 2 feet, pre-cut		
V1760D	Desktop Demo Stand, 1.5 inch NPT		

Dimensions

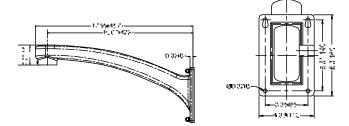
The mounts below are the aluminous brackets used to steadily mount Infinova's analog super domes, and IP domes.

Unit: inch, in the parentheses is mm

1. The diagrams below show the V1761 installation dimensions for wall mount domes combined using the arm bracket.

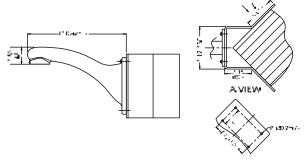


V1761 Short-arm Wall Mount



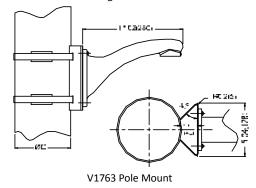
V1761L Long-arm Wall Mount

2. The diagrams below show the V1762 installation dimensions for corner mount domes combined using the arm bracket.

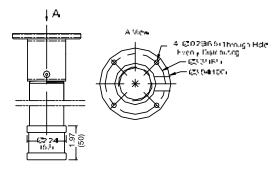


V1762 Corner Mount

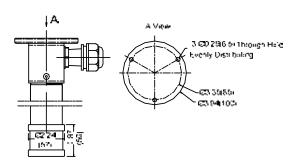
3. The diagrams below show the V1763 installation dimensions for pole mount domes combined using the arm bracket.



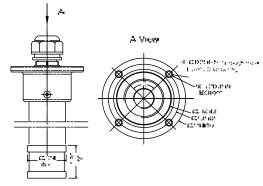
The diagrams below show the V1764 installation dimensions for pendant mount domes.



V1764 Indoor Pendant Mount

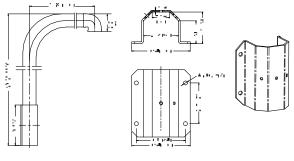


V1764A Outdoor Pendant Mount (side opening)



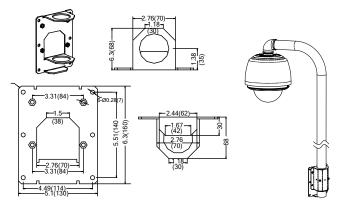
V1764B Outdoor Pendant Mount (top opening)

5. The diagrams below show the V1765 installation dimensions for parapet mount domes combined with the arm brackets.



Bracket Dimensions

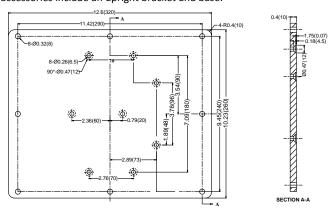
Fastening Bracket dimensions



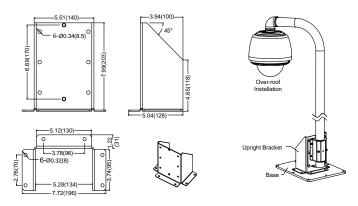
Pedestal Bracket Dimensions

Over-roof sidewall Mounting

The V1765 works with the V1765A parapet horizontal attachment adapter to create over-roof horizontal surface mounting. The accessories include an upright bracket and base.



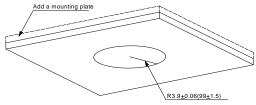
Base Dimension



Upright Dimension

Over-roof horizontal Surface Mounting

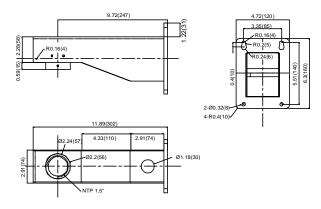
6. The diagrams below show the V1766 installation dimensions for ceiling mount domes.



Indoor Drop Ceiling Panel

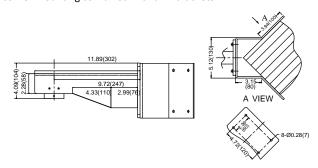
The mounts below are the stainless steel brackets used to steadily mount Infinova's V1750A pressurized domes.

 The diagrams below show the V1761S installation dimension for wall mount domes combined with the arm brackets.

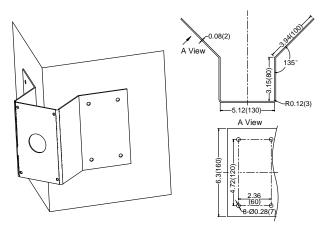


V1761S Wall Mount

2. The diagrams below show the V1762S installation dimensions for corner mounting combined with arm brackets.

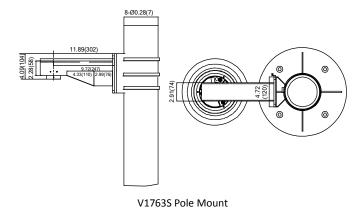


V1762S Corner Mount



Installing Bracket Base

The diagrams below show the V1763S installation dimensions for pole mounting combined with arm brackets.



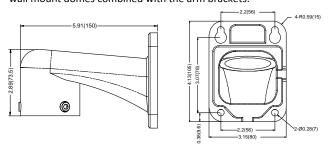
Note: Refer to the corresponding installation manuals for detailed

The mounts below are the aluminous brackets used to steadily mount

installation dimensions and procedures.

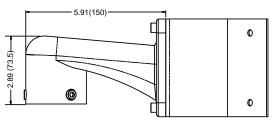
Infinova's V1731A and V1731N-M mini domes.

1. The diagrams below show the V1761MS installation dimension for wall mount domes combined with the arm brackets.

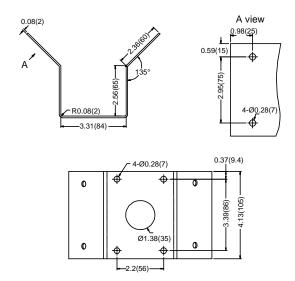


V1761MS Wall Mount

2. The diagrams below show the V1762MS installation dimensions for corner mounting combined with arm brackets.

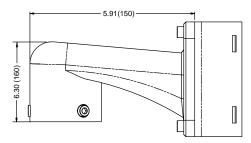


V1762MS Corner Mount

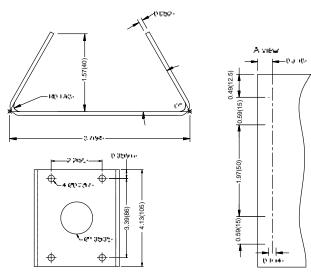


Installing Bracket Base

3. The diagrams below show the V1763MS installation dimensions for pole mounting combined with arm brackets.



V1763MS Pole Mount



Installing Bracket Base

Control Room Product Family



V1362 Series LCD Monitors





V1362S-17/19

- NTSC/PAL system auto switch
- 500 TVL horizontal video resolution
- High brightness, high contrast
- Wide viewing angle, fast response time
- Adaptive 3D comb filter and 3D de-interlace
- User-friendly front control and OSD multi-language support
- Anti-reflective strengthened glass (optional)
- VESA Wall mount and rack mount bracket (optional)
- Universal power supply (VESA DPMS compatible)
- Slim, lightweight and portable design
- Stylish metal cabinet

V1362S-17/19E-2

- Multiple video interfaces
- VGA, BNC, HDMI
- Alarm trigger for video Pop-up
- 3D Comb filter/ De-interlace for better video quality
- Mask Killer to prevent image sticking
- PIP/ POP multi-display function
- Assembled stand, reduce product packaging
- USB interface for media play and firmware upgrade
- Multi-language support
- Anti-reflective strengthened glass(optional)
- Built-in Media player for multimedia

V1362 series LCD monitors use color active matrix TFT (thin-film transistor) LCD, providing high quality displayed images.

The maximum achievable resolution is 1280×1024 pixels, which enable the display of complex and high quality images. In addition, the monitors also provide OSD (On Screen Display) controls and have built in multi-media speakers.

For V1362S-17/V1362S-19		
Electrical	3023-13	
Power Input	DC 12 V / 4 A	
Power Output	DC 12 V / Max 1 A	
Power Supply	AC 100V ~ 240V, 50/60Hz	
Power Consumption	50 W (Max.)	
Power Failure Auto	JO W (WIAX.)	
Recovery	Available	
Power Management	VESA DPMS Standard	
	Horizontal: 500 TVL / 30 K ~ 91.5 KHz;	
Scan Frequency	Vertical: 56 Hz ~ 75 Hz	
Audio Speaker	1 W (Max.)	
Video		
100.0	V1362S-17: 17" Active Matrix TFT LCD	
LCD Display	V1362S-19: 19" Active Matrix TFT LCD	
	V1362S-17:	
Viewable Size	13.30"×10.64" (337.92 mm×270.34 mm)/ (5:4)	
(H × V)	V1362S-19:	
	14.81"×11.85" (376.32 mm×301.06 mm)/ (5:4)	
Response Time	5 ms	
(Tr+Tf)		
Display Color	16.7 M	
Pixel Pitch	V1362S-17: 0.264 mm × 0.264 mm	
(H × V)	V1362S-19: 0.294 mm × 0.294 mm	
Max. Resolution	1280 × 1024 (SXGA)	
(H × V)	` '	
LCD panel characte		
Viewable Angle	Left/Right: 80° / 80° (CR=10)	
	Up/Down: 80° / 80°(CR=10)	
Contrast Ratio	V1362S-17: 1000:1	
(Typ.)	V1362S-19: 800:1	
Brightness (Typ.)	300 cd / m ²	
Lamp Life Time Controls	50,000 hrs	
Controls	Power On/Off, Mode, Up (Contrast Adjust),	
	Down (Brightness Adjust), Menu, Auto, LED	
Front Control	Indicator, Increase (Volume Increase),	
	Decrease (Volume Decrease)	
Display Mode	Video & S-Video & VGA	
De-interlace	Available	
3D Comb Filter	NTSC/PAL	
52 5 65 16.	VGA / DVI: Brightness, Contrast, H-Position,	
	V-Position, Clock, Phase, Color Temp, User	
	Color-R, User Color-G, User Color-B,	
	OSD-H-Position, OSD-V-Position, Volume,	
	Language, PIP, PIP Size/Pos., Source SWAP,	
OSD Menu	Recall	
	Video: Color, Tint (NTSC Only), Brightness,	
	Contrast, Sharpness, Volume, OSD-H-Position,	
	OSD-V-Position, Volume, Language, Color	
	Temp, Scan, PIP, PIP Size/Pos., Source SWAP,	
	Recall	
	Input: Video BNC In (1.0Vp-p, 75 Ohm) × 2,	
Signal Connector	Audio In × 2, VGA In, DVI In, HDMI In (Ready), PC Audio In, Y/C In, YPbPr In	
Signal Connector	Output: Video BNC Out (1.0Vp-p, 75 Ohm) × 2,	
	Audio Out \times 2, Y/C Out	
	Addio Out A 2, 1/C Out	

Environmental		
Operating Temp.	32°F ~104°F (0°C ~40°C)	
Storage Temp.	-4°F ~140°F (-20°C ~60°C)	
Relative Humidity	20~85% RH (non-condensing)	
Physical		
	V1362S-17: 14.76"×13.98"×6.69"	
Unit Dimensions	(375mm×355mm×170mm)	
(W×H×D)	V1362S-19: 16.56"×15.93"×6.69"	
	(420.6mm×404.5mm×170mm)	
	V1362S-17: 19.41"×18.43"×8.86"	
Box Dimensions	(493mm×468mm×225mm)	
(W×H×D)	V1362S-19: 20.91"×20.59"×8.86"	
	(531mm×523mm×225mm)	
Unit Woight	V1362S-17: 12.28 lbs. (5.57 kg);	
Unit Weight	V1362S-19: 13.89 lbs. (6.13 kg);	
Chinning Woight	V1362S-17: 15.88 lbs. (7.2 kg)	
Shipping Weight	V1362S-19: 19.84 lbs. (9.0 kg)	
Certifications and Approval		
Product	FCC, CE, UL, CUL, CB, BSMI, CCC,	
Certifications	ISO 9001: 2008	

Electrical Power Input AC 100 ~ 240V, 50/60Hz Power Supply DC 12V / 3.5A Power Consumption 48W Built in Speakers 1W Video Screen Size V1362S-17E-2: 17" Active Matrix TFT LCD V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color Response Time (Tr/Tf) Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available English, Traditional Chinese, Simplified	For V1362S-17E-2/V1362S-19E-2		
Power Supply Power Consumption 48W Built in Speakers 1W Video Screen Size V1362S-17E-2: 17" Active Matrix TFT LCD V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 5:4 Max. Resolution 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Composite (BNC Type) x 1(Optional) Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available English, Traditional Chinese, Simplified	-		
Power Consumption Built in Speakers 1W Video Screen Size V1362S-17E-2: 17" Active Matrix TFT LCD V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 5:4 Max. Resolution 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-19E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available English, Traditional Chinese, Simplified	Power Input	AC 100 ~ 240V, 50/60Hz	
Power Consumption Built in Speakers 1W Video Screen Size V1362S-17E-2: 17" Active Matrix TFT LCD V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 5:4 Max. Resolution 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-19E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available English, Traditional Chinese, Simplified	Power Supply	DC 12V / 3.5A	
Video V1362S-17E-2: 17" Active Matrix TFT LCD Screen Size V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 5:4 Max. Resolution 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-17E-2: 0.294 x 0.294 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) 5 ms Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Composite (BNC Type) x 1(Optional) Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 USB 2.0 x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available English, Traditional Chinese, Simplified		48W	
Screen Size V1362S-17E-2: 17" Active Matrix TFT LCD V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 5:4 Max. Resolution 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Composite (BNC Type) x 1(Optional) Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 USB 2.0 x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D De-interlace Available English, Traditional Chinese, Simplified	Built in Speakers	1W	
Screen Size V1362S-19E-2: 19" Active Matrix TFT LCD Aspect Ratio 5:4 Max. Resolution 1280 x 1024 / 600TVL Viewable Size (HxV) V1362S-17E-2: 13.31"x10.64" Viewable Size (HxV) (337.94mmx270.34mm) V1362S-19E-2: 14.81"x11.85" (376.32mmx301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-17E-2: 0.294 x 0.294 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) 5 ms Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Composite (BNC Type) x 1(Optional) Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 USB 2.0 x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D De-interlace Available English, Traditional Chinese, Simplified	Video		
Max. Resolution 1280 x 1024 / 600TVL V1362S-17E-2: 13.31"×10.64" (337.94mm×270.34mm) V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color 16.7M Response Time (Tr/Tf) 5 ms Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Composite (BNC Type) x 1(Optional) Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 USB 2.0 x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available Boelinterlace Available English, Traditional Chinese, Simplified	Screen Size		
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V1362S-19E-2: 14.81"×11.85" (376.32mm×301.06mm) Pixel Pitch (HxV) V1362S-17E-2: 0.264 x 0.264 mm V1362S-19E-2: 0.294 x 0.294 mm Display Color Response Time (Tr/Tf) Video Input VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1 Video Output Composite (BNC Type) x 1(Optional) Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available English, Traditional Chinese, Simplified	Viewahle Size (HvV)	(337.94mm×270.34mm)	
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Audio Input Audio (Phone Jack) x 1 Audio Output Audio (Phone Jack) x 1 USB 2.0 x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available 3D De-interlace Available English, Traditional Chinese, Simplified	Video Input	VGA (15 Pin D-SUB) x 1, HDMI x1, BNC x 1	
Audio Output USB 2.0	Video Output	Composite (BNC Type) x 1(Optional)	
USB 2.0 x 1 Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available 3D De-interlace Available English, Traditional Chinese, Simplified	Audio Input	Audio (Phone Jack) x 1	
Sensor-Alarm in x 1, out x 1 Controls PIP & POP Available 3D Comb Filter Available 3D De-interlace Available English, Traditional Chinese, Simplified	Audio Output	Audio (Phone Jack) x 1	
Controls PIP & POP Available 3D Comb Filter Available 3D De-interlace Available English, Traditional Chinese, Simplified	USB 2.0	x 1	
PIP & POP Available 3D Comb Filter Available 3D De-interlace Available English, Traditional Chinese, Simplified	Sensor-Alarm	in x 1, out x 1	
3D Comb Filter Available 3D De-interlace Available English, Traditional Chinese, Simplified	Controls		
3D De-interlace Available English, Traditional Chinese, Simplified	PIP & POP	Available	
English, Traditional Chinese, Simplified	3D Comb Filter	Available	
	3D De-interlace	Available	
Japanese, Russian, Portuguese, Dutch, Czech	OSD Languages	Chinese, French, German, Spanish, Italian,	
Media Player JPG, MP3, Files	Media Player	JPG, MP3, Files	

Technical specifications (continued)

For V1362S-17E-2/V1362S-19E-2			
LCD panel characte	ristics		
Brightness	250 cd/m ²		
Contrast Ratio	1000:1		
Viewing Angle (H/V)	V1362S-17E-2: 170° / 160° V1362S-19E-2: 160° / 170°		
Panel Life Time	50,000 hrs		
Glass	Anti-reflection strengthened glass		
Environmental	Environmental		
Operating Condition	32°F ~104°F (0°C ~ 40°C), 20% ~ 80% RH		
Storage Condition	-4°F ~140°F (-20°C ~60°C), 15% ~ 85% RH		
Mechanical			
Dimension (WxHxD)	V1362S-17E-2: 15.19" × 16.01" × 9.45" (385.89 mm×406.75mm×240mm) V1362S-19E-2: 16.70" × 17.22" × 9.45" (424.19mm×437.35mm×240mm)		
Net Weight	V1362S-17E-2: 9.72 lbs. (4.41 kg) V1362S-19E-2: 10.83lbs. (4.91 kg)		
Mount Weight (Max.)	26.46lbs. (12 kg) (for V1392TW)		
Certifications and Approval			
Product Certifications	CE, FCC, CB, BSMI		

Ordering information

V1362S-17E-2 LCD Monitor, 17 inch, 600TVL, VGA/HDMI/BNC input, BNC output

V1362S-19E-2 LCD Monitor, 19 inch, 600TVL, VGA/HDMI/BNC input, BNC output

V1362S-17 LCD Monitor, 17 inch, 1280×1024, NTSC/PAL/SXGA

LCD Monitor, 19 inch, 1280×1024, NTSC/PAL/SXGA

Recommended Installation Mounts

V1362S-19

V1392TW	Wall mount for LCD monitor, VESA
V1392TR-17E	Rack mount for V1362S-17E-2, VESA
V1392TR-19E	Rack mount for V1362S-19E-2, VESA
V1392TR-17	Rack mount for V1362S-17, VESA
V1392TR-19	Rack mount for V1362S-19, VESA

Dimensions

V1362S-17E-2

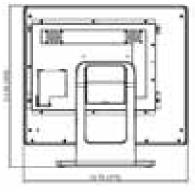






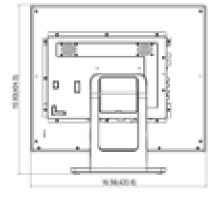


V1362S-17





V1362S-19

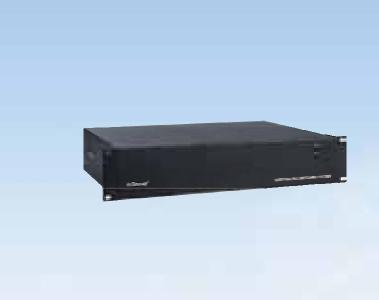




(Unit: inch, in the parentheses is mm)

V2011A Series Small Matrix Switching/Control System





- Utilizing ARM9 microprocessor technology and LINUX operation system core
- Up to 32 video inputs by 8 video outputs
- Ethernet multilevel networking
- Free move of camera title and time information on screen
- Self-calling and mutual calling of tour and salvo, as well as other Ethernet matrix's video calling are provided
- Alarm response can call video input of other networked matrices
- Alarm transferred via Ethernet to remote Ethernet
 Matrix or PC
- Keyboard Grouping and Camera Grouping, providing precise management of keyboard to monitor/camera control
- User priority and password management
- Windows-based multimedia management software

 $\label{lem:v2011A} \ V2011A\ features\ comprehensive\ functions\ and\ pre-configuration.$

Utilizing ARM9 microprocessor technology and based on LINUX operation system, the V2011A can provide automated electronic surveillance or it can allow a single user to control an entire CCTV system of up to 32 video inputs by 8 video outputs. In an automated environment the user can pre-define up to 64 system tours, 64 salvos, 35 event timers, 5 alarm display modes and 3 alarm clearance modes to be performed separately on individual monitors.

V2011A has powerful Ethernet multi-level networking function.

Available GUI software further simplifies system operation through an on-screen system keyboard. Users can be defined at different levels of administration to further enhance the security of the system.

Video Input	75 Ohm BNC, 1.0 Vp-p composite
Maximum Inputs	32
Video Output	75 Ohm BNC, 1.0 Vp-p composite
Maximum Video Outputs	8
Amplitude Frequency	±1.0 dB (5.8 MHz)
Differential Gain	<1.0% (typical)
Differential Phase	<1.5°(typical)
S/N Ratio	≥60 dB (typical)
Adjacent Channel Crosstalk	PAL: 55 dB (4.43 MHz); NTSC: 55 dB (3.58 MHz)
Input to Input Crosstalk	PAL: 70 dB (4.43 MHz); NTSC: 70 dB (3.58 MHz)
Return loss (input/output)	>40 dB
DC level	0V or 400mV
Bandwidth	5 Hz~8 MHz
Switching Speed	20ms (typical)
Non-Volatile Memory	for a minimum of 10 years
Tour	64
Salvo	64
Event Timer	35
Alarm Inputs	Max 128, port or network alarm input
Alarm Response	5 alarm display modes; 3 alarm clearance modes; 5 alarm link tables
OSD	video input number, date/time, video input titles (maximum characters 16) and monitor status
Menu Language	English
Keyboard Control Time	60ms (typical)
Keyboard Control Protocol	RS-232 or Ethernet
RS-232 Ports	3, RJ-45
Ethernet Ports	1, RJ-45
Ethernet Data Rate	10/100 Mbps
Alarm Input Connector	16, 20-pin D type
Input Port Status	NO (Normally Open)/ NC(Normally Close)
Relay Output Port	2, 6-pin D type
Relay Contact Ratings	1A@24VDC, 0.5A@110VAC
Manchester Code Output Port	4,12-pin connector
Input Voltage	100~240VAC self-adaptive
Power	Maximum 11W
Dimensions	3.5" x 19.0" x 12.8"
(H x W x D)	(89mm x 483mm x 325mm)
Package Size	6.5" x 21.7" x 19.0"
(H x W x D)	(165mm x 550mm x 483mm)
Unit Weight	7.9lbs. (3.6 kg)
Shipping Weight	11.7lbs. (5.3 kg)
Mounting	19" EIA standard rack mount
	32°F~122°F (0°C~50°C)
Operating Temperature	32 1 122 1 (0 0 30 0)
Operating Temperature	· · · · · · · · · · · · · · · · · · ·
	0~90%RH (non-condensing)

Certificate No.: 1 RSZ07121702-1&2; 2 RSZ07121702.

Ordering information

V2011A-16x5 Small matrix switching/control system, 16 video inputs
and 5 video outputs, English menu, 100~240VAC
self-adaptive, Ethernet networkable, NTSC

V2011A-16L×5 Small matrix switching/control system, 16 video inputs

and 5 video outputs, video looping output, English menu, 100~240VAC self-adaptive, Ethernet networkable, NTSC

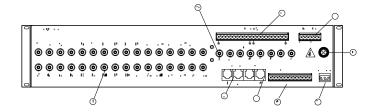
networkable, NTSC

V2011A-32×8 Small matrix switching/control system, 32 video inputs and 8 video outputs, English menu, 100~240VAC self-adaptive, Ethernet networkable, NTSC

V2011A-32L×8 Small matrix switching/control system, 32 video inputs and 8 video outputs, video looping output, English menu, 100~240VAC self-adaptive, Ethernet networkable, NTSC

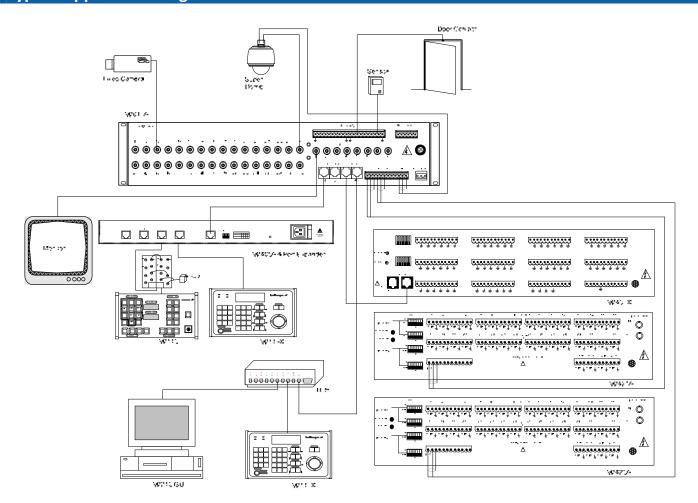
Note: V2011A series matrices are applicable to NTSC system, of which, suffix "X" added behind V2011A means it is applicable to PAL system, such as V2011AX-16×5.

Panel diagram



- 1) 32 Video inputs
- (2) 3 RS-232 ports
- (3) Ethernet output
- (4) 4 Manchester control code connectors
- (5) RS-485 control code connectors
- (6) Power supply cable
- (7) 2 Relays outputs
- (8) 16 Alarm inputs
- (9) 8 Video outputs

Typical application diagram



V2015A Series







- Utilizing ARM9 microprocessor technology and LINUX operation system core
- Up to 80 video inputs by 16 video outputs
- Ethernet multilevel networking function
- Free move of camera title and time information on screen
- Self-calling and mutual calling of tour and salvo, as well as other Ethernet matrix's video calling are provided
- Alarm response can call video input of other networked matrices
- Alarm transferred via Ethernet to remote Ethernet
 Matrix or PC
- Keyboard Grouping and Camera Grouping, providing precise management of keyboard to monitor/camera control
- User priority and password management
- Windows-based multimedia management software

V2015A features comprehensive functions for any security/surveillance system, pre-configuration to assure the highest level of reliability, and modular architecture for ease of installation and operation.

Utilizing ARM9 microprocessor technology and based on LINUX operation system, V2015A can provide automated electronic surveillance or it can allow a single user to control an entire CCTV system of up to 80 video inputs by 16 video outputs. Selectable control code module provides direct control over Manchester or RS-485 protocol receivers and super domes, and Ethernet interface module offers a cost-effective solution for system integration with your existing network.

V2015A can be controlled by keyboards via RS-232 ports. Available GUI software further simplifies system operation through an on-screen system keyboard which is a fully functional representation of V2117. Users can be defined at different levels of administration to further enhance the security of the system.

Video Input	75 Ohm BNC, 1.0 Vp-p composite
Maximum Inputs	80
Video Output	75 Ohm BNC, 1.0 Vp-p composite
Maximum Video Outputs	16
Amplitude Frequency	±1.0 dB (5.8 MHz)
Differential Gain	<1.0% (typical)
Differential Phase	<1.5° (typical)
S/N Ratio	≥60 dB (typical)
Adjacent Channel Cresstall	PAL: 55 dB (4.43 MHz)
Adjacent Channel Crosstalk	NTSC: 55 dB (3.58 MHz)
Input to Input Crosstalk	PAL: 70 dB (4.43 MHz)
input to input crosstaix	NTSC: 70 dB (3.58 MHz)
Return loss (input/output)	>40 dB
DC level	0V or 400mV
Bandwidth	5Hz~8MHz
Switching Speed	20ms (typical)
Non-Volatile Memory	for a minimum of 10 years
Tour	64
Salvo	64
Event Timer	35
Alarm Inputs	Max 1024, port or network alarm input
	5 alarm display modes
Alarm Response	3 alarm clearance modes
	5 alarm link tables
	video input number, date/time, video
OSD	input titles (maximum characters16)
	and monitor status
Menu Language	English

Keyboard Control Time	60ms (typical)	
Keyboard Control Protocol	RS-232 or Ethernet	
RS-232 Ports	5, RJ-45	
Ethernet Ports	1, RJ-45	
Ethernet Data Rate	10/100 Mbps	
Alarm Input Connector	16, 20-pin D type	
Input Port Status	NO (Normally Open)/	
input Fort Status	NC (Normally Close)	
Relay Output Port	2, 6-pin D type	
Relay Contact Ratings	1A@24VDC, 0.5A@110VAC	
Manchester Code Output	4,12-pin connector	
Port	4,12 pin connector	
Input Voltage	100~240VAC self-adaptive	
Power	Maximum 30W	
Dimensions (H x W x D)	5.2" x 19.0" x 13.0"	
Diffierisions (H x vv x D)	(132mm x 483mm x 329mm)	
Package Size (H x W x D)	10.5" x 22.5" x 17.8"	
rackage Size (II X W X D)	(267mm x 571mm x 451mm)	
Unit Weight	17.2 lbs. (7.8 kg)	
Shipping Weight	19.8 lbs. (8.97 kg, for standard	
Simpling Weight	configuration)	
Mounting	19" EIA standard rack mount	
Operating Temperature	32°F~140°F (0°C~60°C)	
Operating Humidity	0~90%RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE, FCC, ISO 9001:2008	

Ordering information

V2015A-YY×ZZ Small matrix switching/control system, English menu,

100~240VAC self-adaptive, Ethernet networkable,

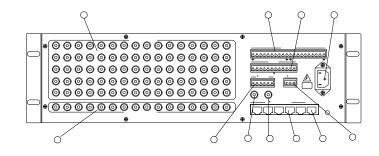
NTSC

V2015AX-YY×ZZ Small matrix switching/control system, English menu,

100~240VAC self-adaptive, Ethernet networkable, PAL

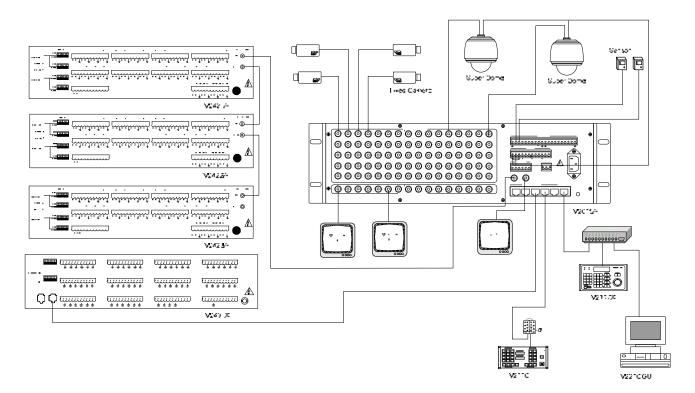
Note: YY×ZZ specifies numbers of video inputs (in submultiples of 16) and video outputs (in sub-multiples of 4). For example, V2015A-80×16 is a pre-configured networkable matrix with 80 video inputs and 16 video outputs.

Panel diagram



- (1) 80 BNC video inputs (75 Ω terminated)
- (2) 16 BNC video outputs for 75Ω terminated monitors
- (3) 16 alarm inputs (normally open)
- (4) 4 Manchester control code outputs
- (5) Power socket
- (6) 2 relay outputs
- (7) Programming Monitor (PGM) output
- (8) 5 RS-232 ports
- (9) 1 Ethernet port
- (10) 1 RS-485 control code output
- (11) HSDL output

Typical application diagram



V2020A Series Medium Matrix Switching/Control System





- Utilizing ARM9 microprocessor technology and LINUX operation system core
- Up to 240 video inputs by 32 video outputs
- Scalable high density architecture for easy expansion
- Ethernet multilevel networking function
- Free move of camera title and time information on screen
- Self-calling and mutual calling of tour and salvo, as well as other Ethernet matrix's video calling are provided
- Alarm response can call video input of other networked matrices
- Alarm transferred via Ethernet to remote Ethernet
 Matrix or PC
- Keyboard Grouping and Camera Grouping, providing precise management of keyboard to monitor/camera control
- User priority and password management
- Windows-based multimedia management software

V2020A features comprehensive functions for any security surveillance system, pre-configuration to assure the highest level of reliability, and open architecture for ease of installation, operation and expansion. Utilizing ARM9 microprocessor technology and based on LINUX operation system, V2020A can provide automated electronic surveillance or it can allow a single user to control an entire CCTV system of up to 240 video inputs by 32 video outputs. In an automated environment the user can pre-define up to 64 system tours, 64 salvos, 35 event timers, 5 alarm display modes and 3 alarm clearance modes to be performed separately on individual monitors.

The V2020A communicates with controllers or PCs via either RS-232 data. Windows-based system setup software greatly simplifies the initial setup procedure as well as ongoing maintenance of system parameters. Available GUI software further simplifies system operation by the utilization of an on-screen system keyboard which is a fully functional representation of V2117. Users could be defined at different levels of administration to further enhance the security of the system.

Single Standard Bay	240 video inputs by 16 video outputs
Single High-density Bay	112 video inputs by 32 video outputs
Max Capacity	240 video inputs by 32 video outputs
Video Input	75 Ohm BNC, 1.0 Vp-p composite
Video Output	75 Ohm BNC, 1.0 Vp-p composite
Amplitude Frequency	±1.0 dB (5.8 MHz)
Differential Gain	<1.0% (typical)
Differential Phase	<1.5° (typical)
S/N Ratio	≥60 dB (typical)
Adjacent Channel Crosstalk	PAL: 55 dB (4.43 MHz)
Aujacent Channel Crosstalk	NTSC: 55 dB (3.58 MHz)
Input to Input Crosstalk	PAL: 70 dB (4.43 MHz)
input to input crosstaix	NTSC: 70 dB (3.58 MHz)
Return loss (input/output)	>40 dB
DC level	0V or 400mV
Bandwidth	5Hz~8MHz
Switching Speed	20ms (typical)
Non-Volatile Memory	for a minimum of 10 years
Tour	64
Salvo	64
Event Timer	35
	Max 1024, port or network alarm
Alarm Inputs	input
	5 alarm display modes
Alarm Response	3 alarm clearance modes
	5 alarm link tables
	and the section of the second section of the section of the second section of the second section of the second section of the section of the second section of the section of
	video input number, date/time, video
OSD	input titles (maximum characters 16)
OSD	
OSD Menu Language	input titles (maximum characters 16)
	input titles (maximum characters 16) and monitor status
Menu Language	input titles (maximum characters 16) and monitor status English
Menu Language Keyboard Control Time	input titles (maximum characters 16) and monitor status English 60ms (typical)
Menu Language Keyboard Control Time Keyboard Control Protocol	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D)	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0"
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm)
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D)	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0"
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D) Unit Weight	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm)
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D)	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm) 51 lbs. (23.1 kg)
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D) Unit Weight	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm) 51 lbs. (23.1 kg) 82.7 lbs. (37.5 kg, for standard
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D) Unit Weight Shipping Weight Mounting	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm) 51 lbs. (23.1 kg) 82.7 lbs. (37.5 kg, for standard configuration) 19" EIA standard rack mount
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D) Unit Weight Shipping Weight Mounting Operating Temperature	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm) 51 lbs. (23.1 kg) 82.7 lbs. (37.5 kg, for standard configuration) 19" EIA standard rack mount 32°F~140°F (0°C~60°C)
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D) Unit Weight Shipping Weight Mounting Operating Temperature Operating Humidity	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm) 51 lbs. (23.1 kg) 82.7 lbs. (37.5 kg, for standard configuration) 19" EIA standard rack mount 32°F~140°F (0°C~60°C) 0~90%RH (non-condensing)
Menu Language Keyboard Control Time Keyboard Control Protocol RS-232 Ports Ethernet Ports Ethernet Data Rate HSDL Ext Sync Input/Output PGM Input Voltage Power Dimensions (H x W x D) Package Size (H x W x D) Unit Weight Shipping Weight Mounting Operating Temperature	input titles (maximum characters 16) and monitor status English 60ms (typical) RS-232 or Ethernet 8, RJ-45 1, RJ-45 10/100 Mbps 2 BNC connectors BNC connector BNC connector 100~240VAC self-adaptive Maximum 120W 10.5" x 19.0" x 18.0" (266mm x 483mm x 457mm) 16.5" x 27.0" x 25.0" (419mm x 686mm x 635mm) 51 lbs. (23.1 kg) 82.7 lbs. (37.5 kg, for standard configuration) 19" EIA standard rack mount 32°F~140°F (0°C~60°C) 0~90%RH (non-condensing)

Ordering information

V2020A-YYY×ZZ Medium matrix switching/control system,

English menu, 100~240VAC self-adaptive,

Ethernet networkable, NTSC

V2020AX-YYY×ZZ Medium matrix switching/control system,

English menu, 100~240VAC self-adaptive,

Ethernet networkable, PAL

Note: YYY×ZZ specifies numbers of video inputs (in submultiples of 16) and video outputs (in submultiples of 4). For example, V2020A-128×16 is a matrix with 128 video inputs and 16 video outputs, Ethernet networkable.

Optional products

V2913ACN CPU module with networkable function
V2903DBVL Data buffer module with video loss detection

(each for 256 video inputs)

Accessories

V2901 High density bay, including power supply

module

V2902 High density bay, bi-level, including power

supply module

V2903SPS-1 Power supply module, 100~240VAC

self-adaptive

V2903DB Matrix data buffer module inter-bay connection
V2903DBVL Data buffer module with video loss detection

(each for 256 video inputs)

V2903VI-1 Video input module (back card included), single

bay

V2903VI-2 Video input module (back card included), for the

first level of multi-bays

V2903VI-3 Video input module (back card included), for the

second level of multi-bays

V2913VO Video output module (back card included)

V2903VIC Video input card (without back card)

V2903VIB-1 Back card for video input module, single bay

V2903VIB-2 Back card for video input module, for the first

level of multi-bays

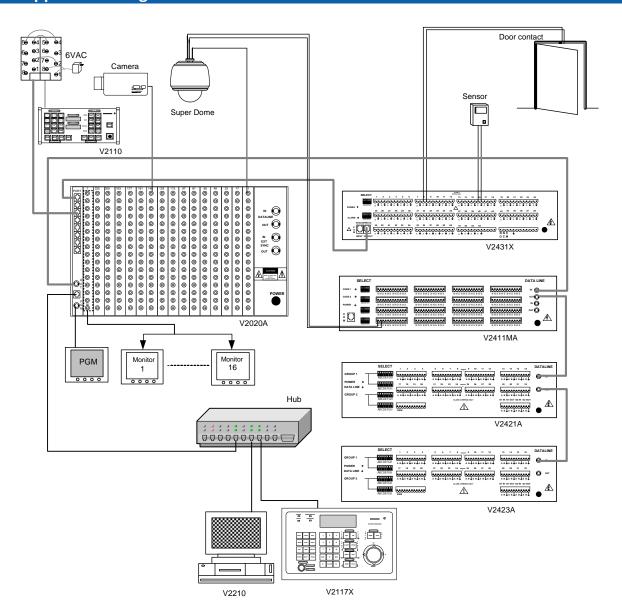
V2903VIB-3 Back card for video input module, for the second

level of multi-bays

V2913VOC Video output card (without back card)

V2913VOB Back card for video output module

Typical application diagram



V2040A Series Large Matrix Switching/Control System





- Up to 1024 video inputs by 128 video outputs
- Utilizing ARM9 microprocessor technology and LINUX operation system core
- External CPU with optional "Hot Switch"
- Scalable high density architecture for easy expansion
- Optional Windows-based multimedia management software
- Alarm transferred via Ethernet to remote Ethernet
 Matrix or PC
- Free move of camera title and time information on screen
- Self-calling and mutual calling of tour and salvo, as well as other Ethernet matrix's video calling are provided
- Alarm response can call video input of other networked matrices
- Keyboard Grouping and Camera Grouping, providing precise management of keyboard to monitor/camera control
- User priority and password management

V2040A features comprehensive functions for any security/surveillance system, pre-configuration to assure the highest level of reliability, and open architecture for ease of installation, operation and expansion. V2040A represents the peak of video matrix switching technology while remaining a highly cost effective solution.

Utilizing ARM9 microprocessor technology and based on LINUX operation system, the V2040A can provide automated electronic surveillance or it can allow a single user to control an entire CCTV system of up to 1024 video inputs by 128 video outputs. In an automated environment the user can pre-define up to 64 system tours, 64 salvos, 35 event timers, 5 alarm display modes and 3 alarm clearance modes to be performed separately on individual monitors.

The V2040A communicates with controllers or PCs via either RS-232 data. Windows-based system setup software greatly simplifies the initial setup procedure as well as ongoing maintenance of system parameters. Available GUI software further simplifies system operation by the utilization of an on-screen system keyboard which is a fully functional representation of V2117. Users could be defined at different levels of administration to further enhance the security of the system.

Ve I	75.01
Video Input	75 Ohm BNC, 1.0 Vp-p composite
Maximum Video Input	1024
Video Output	75 Ohm BNC, 1.0 Vp-p composite
Maximum Video Output	128
Amplitude Frequency Differential Gain	±1.0 dB (5.8 MHz)
	<1.0% (typical)
Differential Phase	<1.5° (typical)
S/N Ratio	≥60 dB (typical)
Adjacent Channel Crosstalk	PAL: 55 dB (4.43 MHz);
	NTSC: 55 dB (3.58 MHz) PAL: 70 dB (4.43 MHz);
Input to Input Crosstalk	NTSC: 70 dB (4.45 MHz)
Return loss (input/output):	>40 dB
DC level:	0V or 400mV
Bandwidth	5Hz~8MHz
Switching Speed	20ms (typical)
Non-Volatile Memory	for a minimum of 10 years
Tour	64
Salvo	64
Event Timer	35
Alarm Inputs	Max 1024, port or network alarm
	input
Alawa Basa sa sa	5 alarm display modes
Alarm Response	3 alarm clearance modes
	5 alarm link tables
000	video input number, date/time, video
OSD	input titles (maximum characters16)
Manuelanana	and monitor status
Menu Language	English
Keyboard Control Time	60ms (typical)
Keyboard Control Protocol	RS-232 or Ethernet
RS-232 Ports	10, RJ-45
Ethernet Ports	1, RJ-45
Ethernet Data Rate	10/100 Mbps
HSDL	2 BNC connectors
Ext Sync Input/Output	BNC connector
PGM	BNC connector
Input Voltage	100~240VAC self-adaptive
Power	Maximum 120W
Dimensions (H x W x D)	10.5" x 19.0" x 18.0"
,	(266mm x 483mm x 457mm)
Package Size (H x W x D)	16.5" x 27.0" x 25.0"
	(635mm x 686mm x 419mm)
Unit Weight	51 lbs. (23.1 kg)
Shipping Weight	94 lbs. (42.7 kg, for standard
., -	configuration)
CPU Dimensions	1.8" x 19.0" x 10.8"
(H x W x D)	(45mm x 483mm x 275mm)
CPU Package Size	15.5" x 22.0" x 5"
(H x W x D)	(394mm x 559mm x 127mm)
CPU Weight	6.6 lbs. (3 kg)
CPU Shipping Weight	8.5 lbs. (3.85 kg)
Mounting	19" EIA standard rack mount
Operating Temperature	32°F~140°F (0°C~60°C)
Operating Humidity	$0{\sim}90$ %RH (non-condensing)
Certifications and Approva	al
Product Certifications	CE, FCC, ISO 9001:2008

Ordering information

V2040A-YYYY×ZZZ Large matrix switching/control system, English

menu, 100~240VAC self-adaptive, Ethernet

networkable, NTSC

V2040AX-YYYY×ZZZ Large matrix switching/control system, English

menu, 100~240VAC self-adaptive, Ethernet

networkable, PAL

Note: YYYY×ZZZ specifies number of video inputs (in submultiples of 16) and video outputs (in submultiples of 4). For example, V2040A-1024×128 is a networkable matrix with 1024 video inputs and 128 video outputs,

Optional products

V2923ACN External CPU for backup

V2903DBVL Data buffer module with video loss detection

(each for 256 video inputs)

V2924AHS Standalone hot switch for dual CPU operation

Accessories

V2901 High density bay, including power supply

module

V2902 High density bay, bi-level, including power

supply module

V2923ACN External CPU with network function

V2903SPS-1 Power supply module, 100~240VAC

self-adaptive

V2903DB Matrix data buffer module inter-bay connection

V2903DBVL Data buffer module with video loss detection

(each for 256 video inputs)

V2903VI-1 Video input module (back card included), single

bay

V2903VI-2 Video input module (back card included), for the

first level of multi-bays

V2903VI-3 Video input module (back card included), for the

second level of multi-bays

V2903VI-4 Video input module (back card included), higher

level

V2903VO-1 Video output module (back card included),

single slot

V2903VO-2 Video output module (back card included),

double slots

V2903VIC Video input card (without back card)

V2903VIB-1 Back card for video input module, single bay V2903VIB-2 Back card for video input module, for the first

level of multi-bays

V2903VIB-3 Back card for video input module, for the second

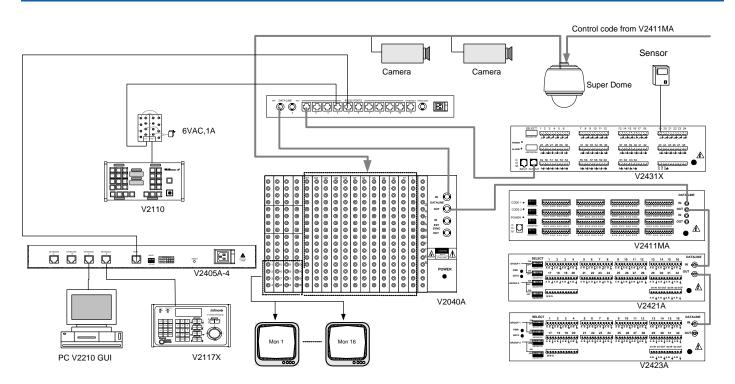
level of multi-bays

V2903VIB-4 Back card for video input module, higher level

V2903VOC Video output card (without back card)
V2903VOB-1 Back card for video output module, single slot

V2903VOB-2 Back card for video output module, double slots

Typical application diagram



V2923ACN Series External CPU for V2040A Matrix Switcher





- ARM9 microprocessor technology
- Core module of matrix switching/control system
- Control matrix switching system and PTZ operation of cameras
- Provides system programme menu
- Time/Date indicating LED
- Power indicator light

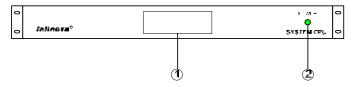
Embedded software CPU is the core of matrix switching/control system, which controls matrix switching actions and PTZ operations of cameras. Meanwhile, it provides system programme menu.

V2923ACN features powerful functions by utilizing ARM9 microprocessor technology and based on LINUX operation system.

Communication Protocol	RS-232/Ethernet option	
Number of RS-232 Ports	10 (expandable to 40)	
Connection Type	8-pin RJ-45 connectors	
Data Interface	RJ-45	
Data Rate	10/100 Mbps	
HSDL	2 BNC connectors	
Programming Monitor	1 BNC connectors	
Input Voltage	100~240VAC, 50/60Hz	
Power Requirements	8W	
Dimensions (HvWvD)	1.77" × 19.0" × 10.83"	
Dimensions (H×W×D)	(45mm × 483mm × 275mm)	
Package Size (L×W×H)	15.5" × 22" × 5"	
Package Size (L×VV×H)	(394mm × 559mm × 127mm)	
Unit Weight	6.6lbs. (3 kg)	
Shipping Weight:	8.49lbs. (3.85 kg)	
Mount	Rack mount	
Operating Temperature	22% 0:440% (0% - 00%)	
(indoor)	32°F ~ 140°F (0°C~60°C)	
Humidity	0~90%RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE, FCC, ISO 9001:2008	

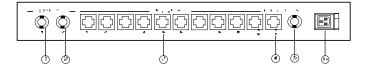
Panel diagram

Front Panel



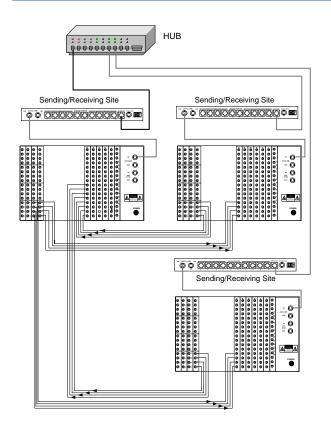
- (1) Date/Time indicating-LED screen, display the current time/date
- (2) Power indicator- indicate system power status

Rear Panel



- (1) HSDL output interface 1
- (2) HSDL output interface 2
- (3) RS-232 port
- (4) Ethernet port
- (5) PGM interface
- (6) Power

Typical application diagram



Ordering information

V2923ACN

External CPU module, ARM9 microprocessor technology, 100~240VAC self- adaptive

V2924AHS Series Matrix Hot Switch for Dual CPU Operation





- Automatic or manual selection of active or standby CPU
- Continuous detection of dual CPU status
- Automatic switchover to standby CPU in the event of active CPU failure
- Audible alarm to indicate malfunction in either CPU
- Front-panel switch to enable/disable audible alarm function
- 26 Diagnostic LEDs to indicate each operating status
- 3 Form-C relay outputs to control auxiliary alarm devices

The V2924AHS is an external hot-switch that monitors dual V2923ACN CPU operation of V2040A large-scale networking matrix switchers.

The V2923ACN controls all functions of the switcher, including video routing, PTZ operation, programming, and storage. While independent switchers generally use the V2040A matrix switcher with a single CPU, a second V2923ACN may be added by using the V2924AHS. In this dual redundant CPU system, the V2923ACN units are constantly operating in tandem with one unit designated as the primary and the second as the backup. In the event of a failure by the primary CPU, the "hot switch" will automatically transfer system operation to the backup.

Audible alarm is realized via front-panel switches. When it is enabled, there will be audible alert if either CPU goes wrong.

Meanwhile, up to 26 diagnostic LEDs are provided to indicate CPU, V2924AHS, and RS-232 port operating status.

To enhance system's alarm disposing capability, 3 relay outputs are provided to connect with auxiliary alarm devices.

Besides, V2924AHS uses automatic anti-malfunction design. Video surveillance system's operation will not be influenced if there is any power problem with V2924AHS.

Connectors	
RS232 ports	27, 8-pin RJ-45 connectors
CPU communication ports	2, 8-pin RJ-45 connectors
Ethernet connectors	3, 8-pin RJ-45 connectors, 10/100Mbps
High Speed Data Line:	6, BNC interface
programmable monitor outputs	3, BNC interface
Alarm outputs	3, 3-pin "D" type sockets
Electrical	
Input voltage	100~240VAC, 60/50Hz
Power consumption	5W
Power cord	3-wire, # 18 AWG
Mechanical	
Dimensions	
Base only	3.46" (H) × 16.77" (W) × 12.44" (D)
base only	88mm (H) × 426mm (W) × 316mm (D)
With rack ears	3.46" (H) × 19.0" (W) × 12.44" (D) 88mm (H) × 483mm (W) × 316mm (D)
Weight	7lbs. (3.2 kg)
Package Size (L×W×H)	6.5" × 21.7" × 19.0"
rackage Size (L^VV^II)	(165mm × 550mm × 483mm)
Shipping Weight:	11.7lbs. (5.3 kg)
Mounting	Rack mount
Operational	
Control switches	
CPU selection switch	One 3-position switch
Alter on/off Switch	One 2-position switch
Diagnostic LEDs	
CPU status	8 LEDs indicating the status of the two CPUs and the hot switch
Port status	18 LEDs indicating the status of the hot switch's 9 RS232 ports
Environmental	
Temperature	32°F ~104°F (0°C~40°C)
Humidity	0~90% RH (non- condensing)
Certifications and App	roval
Product Certifications	CE, FCC, ISO 9001:2008

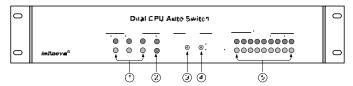
Ordering information

V2924AHS

Standalone hot switch for dual CPU operation, 100~240VAC self-adaptive (The CPUs should be purchased otherwise)

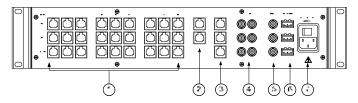
Panel diagrams

Front Panel



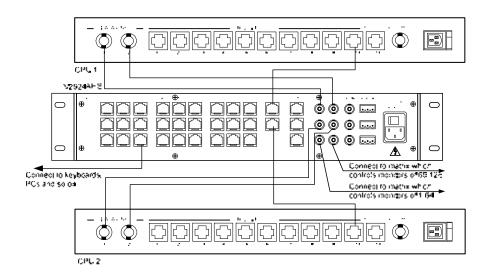
- (1) 6 LEDs indicating the status of the two CPUs
- (2) LED indicating the status of the hot switch
- (3) Switch to select the Active CPU
- (4) Switch to enable/disable audible alert
- 5) 18 LEDs indicating the status of the hot switch's RS-232 ports

Rear Panel



- (1) 3 sets of 9 RS-232 ports (27)
- (2) 2 communication ports for CPU
- (3) 3 Ethernet ports
- (4) 3 sets of 2 High-Speed Data Line ports
- (5) 3 programming monitor outputs
- (6) 3 Form-C relay connectors (alarm outputs)
- (7) Power socket

Typical application diagram



V2125 Series







- Completely new appearance, streamline structure, handsome and decent
- LCD touch-screen supports display of various live information and touch operations
- DVR Control with the latest shuttle technique for rapid and exact orientation
- Particular macroinstruction setup makes the complicated operations easy
- Supports analog video display by LCD directly
- Built-in USB interface, and support LCD operations by USB mouse
- Splitting screen and calling sub-screen can be realized when used with V2600 NSP and V2216 management platforms

V2125 series LCD system keyboards are launched with completely new appearance and streamline structure, which makes it handsome and decent. Different operation areas are divided according to functions. The new system keyboard can control Infinova series matrixes, as well as USP, DVR, V2216 digital video management platform. It can control dome cameras and decoders of multiple protocols directly. A RS-232 port and a RS-422/485 port are provided and both the purpose and baudrate are programmable.

V2125 series LCD system keyboards are equipped with 7.0" LCD screen, which can not only display keyboard menu, matrix menu, dome camera menu, current system and keyboard status information, but also can display videos directly. Various operation methods are supported, including screen-touch and USB mouse. What's more, V2125 series system keyboards integrate the audio intercom function (only –N series SD front-end devices and –N series encoders of Infinova protocol are supported currently) to realize communication from keyboard to keyboard and from keyboard to IP front-end products with no delay, which makes surveillance convenient and efficient.

Particular macroinstruction function makes the complicated operations easy and up to 999 macroinstructions can be set.

Operation of different devices can be combined to realize linkage operations which are not available by other keyboards.

Macroinstruction can be defined via Web server.

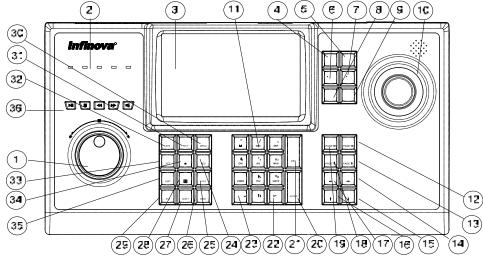
Communication Protocol	RS-232/RS-422/485, Ethernet
RS-232	1200, 2400, 4800, 9600, 19200, 38400,
Baud Rate (bps)	57600, 115200
Matrix/Dome Output	Manchester/RS-422/485
RS-422/485	1200, 2400, 4800, 9600, 19200, 38400,
Baud Rate (bps)	57600, 115200
BNC Interface	1 (analog video input)
Audio Input Interface (AV)	1 (audio input)
Audio Output Interface (AV)	1 (audio output)
USB Interface	1 (USB connection)
LCD View Angle	Frontward: 50%65°; Backward: 60%65°
LCD Resolution	800×480

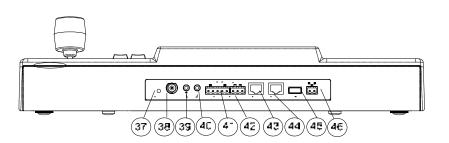
Power Supply	12VDC	
Power Consumption	≤7.32W	
Compatibility	All Infinova matrix switching/control system and DVR	
Operation Temperature	14°F~104°F (-10°C ~40°C)	
Operation Humidity	0~90% RH (non-condensing)	
Product Size	17.6" × 9.2" × 2.8" (447.2mm × 234.2mm × 70.5mm)	
Net Weight	5.07lbs. (2.3 kg)	
Certifications and Approval		
Product Certifications	CE, FCC, ISO 9001:2008	

Ordering information

V2125 System keyboard, 7.0" LCD screen, 3-D joystick, DVR control by shuttle keys, RS-422/485/Manchester code output, Ethernet/RS-232 communication, 12VDC

Panel diagrams





1. Shuttle roller 2. 5 Indicators 3. 7.0"LCD screen 4. MODE key 5. USER key 6. Macro definition key of keyboard 7. Macro definition key of matrix 8. F1 key 9. F2 key 10. 3-D joystick 11. Numeric/Alphabetic key 12. ON/Page right key 13. OPEN/Page down key 14. FAR/ Right key 15. TELE/ Down key 16. WIDE/Up key 17. NEAR/Left key 18. CLOSE/Page up key 19. OFF/Page left key 20. ACK/ENTER key 21. CLEAR/ESC key 22. MON key 24. HOLD/REC key 23. CAM key 26. PRST key 25. SALVO/PLAY key 27. PATRN key 28. PROG/Multiple photo key 29. NEXT/DOWN/PTZ control key 30. RUN/MENU key 31. ARM/EDIT key 32. SITE/SYS key 33. LOCK/UNLOCK key 34. OFF key 35. LAST key 36. Shuttle keys 37. Reset button 38. Video input 39. Audio input

41. RS-422 interface

46. Power input port

44. Ethernet port

40. Audio output

45. USB port

42. Manchester interface43. RS-232 interface4

V2117 Series







- Built-in RS-485/Manchester control code generators,
 allowing direct control over site receivers or PTZ Domes
- DVR control through RS-485 interface
- Communicates with matrix switching system through RS-232 or Ethernet interface
- User-friendly design with clearly labeled operation keys
- Video input/output switching ability
- 3-D joystick for controlling motorized pan/tilts and lens with variable speed
- Capable of programming, starting and controlling System/Monitor Tours and System Salvos
- Convenient monitor arming/disarming and alarm acknowledgement
- Easy preset defining and camera call-up
- Camera lockout capability

V2117 series system keyboards are compatible with Infinova series matrix switchers/controllers, PTZ cameras, and digital video recorders, with desktop or rack mounting ways for option.

The V2117 series system keyboards are capable of handling video switching, system setup, menu programming, PTZ control, alarm acknowledgement, salvo switching, DVR control, etc. There is a user login feature for added system security. RS-485 and Manchester code outputs allow for direct control over Infinova series receiver/drivers or dome cameras. DVRs can be controlled through the RS-485 interface. The 3-D joystick can control either fixed or variable-speed pan/tilts. The lens key allows for control of motorized lenses, including: iris (OPEN/CLOSE), focus (FAR/NEAR), and zoom (WIDE/TELE). The LCD display window indicates site number, camera number and monitor number, as well as any digital inputs from the keyboard. A built-in beeper will alert operators of system errors.

V2117 series system keyboards can establish Ethernet or bi-directional RS-232 communications with Infinova series matrix switching systems. Six different baud rates are provided to work with different major matrix switcher/controllers. The keyboard also provides four system status LED indicators.

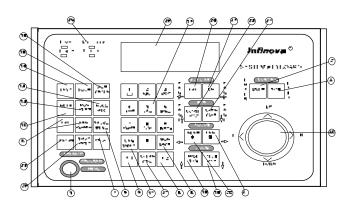
RS-232, Ethernet		
1200, 2400, 4800, 9600, 19200, 38400		
1200, 2400, 4800, 9600, 19200		
Manchester, RS-485		
120 VAC/60 Hz, 230 VAC/50Hz		
4.5 W		
2.7" × 13.0" × 7.9" (68mm × 330mm × 200mm)		
6.5" × 15.0" × 11.0" (165mm × 381mm × 279mm)		
6.17lbs. (2.8 kg)		
8.4lbs. (3.83 kg)		
Environmental		
32°F~140°F (0°C~60°C)		
0~90%RH (non-condensing)		
Certifications and Approval		
CE/LVD ¹ : EN60950-1:2006; CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN: 61000-3-3; FCC ³ : Part 15 Subpart B; UL, cUL, ISO 9001:2008		

Certificate No.: 1 CTS09030005; 2 BCT08LC-994E& CTE09030003; 3 BCT08LC-995E.

Ordering information

V2117	Keyboard, Matrix/Dome/DVR control, LCD
	display, 3-D Joystick, RS-485/Manchester/
	Ethernet/RS-232 ports, 120 VAC/60 Hz
V2117X	Keyboard, Matrix/Dome/DVR control, LCD
	display, 3-D Joystick, RS-485/Manchester/
	Ethernet/RS-232 ports, 230 VAC/50 Hz

Panel diagram



- 1. Key switch
- 3. Site control
- 5. F2 key
- 7. PROG key
- 9. SALVO/MENU key
- 11. Camera/SHIFT key
- 13. HOLD/REC key
- 15. LOCK key
- 17. Numeric key
- 19. TELE/PTT/Down arrow key
- 21. FAR/Right arrow key
- 23. OPEN/EDIT/Page down key
- 25. ON/Page right key
- 27. PATRN/Exit key
- 29. Four LED indicators
- 31. CLEAR/ESC key

- 2. USER key
- 4. F1 key
- 6. Monitor/UNIT key
- 8. ARM/POWER & OFF key
- 10. NEXT key
- 12. RUN/PLAY key
- 14. LAST key
- 16. ACK/ENTER key
- 18. WIDE/SYSTEM/Up arrow key
- 20. NEAR/Left arrow key
- 22. CLOSE/PTZ/Page up key
- 24. OFF/Page left key
- 26. SHOT/PRST key
- 28. LCD display panel
- 30. Joystick

V2111 Series PTZ Dome/DVR Controller Keyboard





- Direct control over PTZ domes/DVRs and Pan/Tilt receivers via RS-485/Manchester code
- Built-in RS-485 generator provides multiple baud rates and protocols for selection
- LCD display indicating camera number, controller status and any digital inputs
- 3-D joystick with variable speed
- Control of motorized lens
- Built-in beeper, which will alarm once operation mistake happened or alarm received
- Control of presets, patterns and autopan
- Three status indicators

The V2111 PTZ dome/DVR controller keyboard is compatible with the high-speed dome cameras/receivers under multiple protocols such as MANCHESTER, PELCO-D/P, SAMSUNG, VICON and INFINOVA. It is capable of handling camera switching, menu programming, PTZ and LENS control, PRESET/PATTERN/AUTOPAN control, dome menu programming, etc. And the Controller is capable of controlling DVR via RS-485 port directly.

The V2111 PTZ dome/DVR controller keyboard can directly communicate with high-speed dome cameras/receivers via RS-485 or Manchester code. The 3-D joystick on the CONTROLLER can control fixed or variable-speed pan/tilt or high-speed dome cameras. The lens key allows for control of motorized lenses, including: IRIS (OPEN/CLOSE), FOCUS (FAR/NEAR), and ZOOM (WIDE/TELE). The LCD indicates the spot camera number, as well as any digital inputs from the keyboard.

General		
Communication Protocol	RS-485 and Manchester	
Selectable Baud Rate (bps)	1200, 2400, 4800, 9600, 19200	
Electrical		
Input Voltage	120 VAC/60 Hz, 230 VAC/50Hz	
Power Consumption	3 W	
Mechanical		
5: ' (11 11/ 5)	2.2" × 12.44" × 6.5"	
Dimension (H×W×D)	(55mm × 316mm × 165mm)	
Dooks as Cine (HvMvD)	7.0" × 14.0" × 9.3"	
Package Size (H×W×D)	(178mm × 356mm × 235mm)	
Unit Weight	6.0 lbs. (2.7 kg)	
Shipping Weight	7.3 lbs. (3.3 kg)	
Environmental		
Operating Temperature	32°F~104°F (0°C~40°C)	
Operating Humidity	0~90%RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/LVD ¹ : EN60950-1:2006; CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN: 61000-3-3; FCC ³ Class A; UL, cUL, ISO 9001:2008	

Certificate No.: 1 BCT09FC-497S; 2 RSZ07121702-1&2; 3 RSZ07121703.

Ordering information

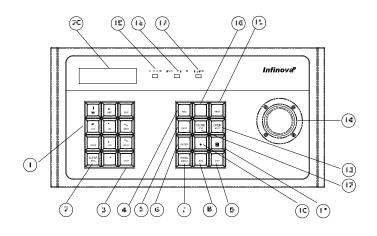
V2111	Keyboard, Dome/DVR Controller, LCD display, Joystick,
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RS-485/Manchester ports, 120 VAC/60 Hz

V2111X Keyboard, Dome/DVR Controller, LCD display, Joystick,

RS-485/Manchester ports, 230 VAC/50 Hz

Panel diagram



- 1. Numeric/Alphabetic keys
- 2. CLEAR/ESC key

3. CAM/UNIT key

4. LAST/REC key

5. NEXT/PLAY key

- 6. ACK/ENTER key
- 7. PROG/MENU key
- 8. WIDE/SYS key

- 9. TELE/PTT key
- 10. NEAR /Switching (number, letter and symbol) key
- 11. FAR /Switching (video multiplexing) key
- 12. CLOSE/PTZ key 13. OPEN/EDIT key
- 14. JOYSTICK 15. SHOT/PRST key
- 16. F1 key 17. RS-485 LED
- 18. MANCHESTER LED 19. POWER LED
- 20. LCD display

V2110 Series Operator Control Keyboard





- Variable speed joystick
- LED displays to display monitor and camera IDs
- Auto pan/tilt scan
- Dome/Zoom/Iris/Focus/Lens Control
- DIP switch for monitor ID selection
- Preset call & Auto tour
- Monitor tour programming
- Auxiliary ON/OFF control
- Monitor arming and disarming functions
- Alarm acknowledgement

V2110 series operator control keyboard is designed to work with all Infinova series matrix switching systems, and can provide camera call-up, and sequence programming functions when used with suitable accessories.

V2110 series keyboard can control a pre-selected monitor or all monitors by changing the settings of the DIP switches located in the bottom side of the unit. Monitor ID will be displayed on the monitor LED display and the Camera ID will be displayed on the camera LED display of the keyboard. To select a camera, simply enter the camera ID and press the CAM button. To select a monitor, simply enter the monitor ID and press the MON button.

In consideration of security, the V2110 keyboard cannot alter the system settings of date/time, camera title, and camera preset.

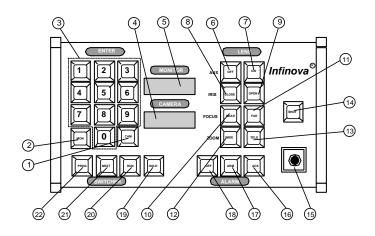
General		
Communication Protocol	RS-232	
Baud Rate (bps)	1200	
Electrical		
Input Voltage	120VAC/60Hz; 230VAC/50Hz	
Power Consumption	4.5 W	
Mechanical		
Discounting (II IA) D)	3.15" × 10.94" × 5.91"	
Dimension ($H \times W \times D$)	(80mm × 278mm × 150mm)	
Darkers Circ (II) A D)	7.8" × 12.8" × 9.8"	
Package Size ($H \times W \times D$)	(197mm × 325mm × 248mm)	
Unit Weight	3.2lbs. (1.45 kg)	
Shipping Weight	5.9lbs. (2.69 kg)	
Environmental		
Operating Temperature	32°F~104°F (0°C~40°C)	
Operating Humidity	0~90%RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/EMC ¹ : EN 55022, EN 55024;	
	FCC ² : Part 15 Subpart B;	
	UL 60950; cUL; ISO 9001:2008	

Certificate No.: 1 RSZ07070302; 2 BCT09FC-498E.

Ordering information

V2110 Keyboard, Matrix Operator, Joystick, RS-232 port, 120VAC V2110X Keyboard, Matrix Operator, Joystick, RS-232 port, 230VAC

Panel diagram



- 1. Camera key
- 3. Numeric keypad
- 5. LED Monitor Display
- 7. On key
- 9. Open key
- 11. Far key
- 13. Tele key
- 15. Joystick
- 17. ARM key
- 19. HOLD key
- 21. NEXT key

- 2. Monitor key
- 4. LED Camera Display
- 6. Off key
- 8. Close key
- 10. Near key
- 12. Wide key
- 14. SHOT key
- 16. ACK key
- 18. OFF key
- 20. RUN key
- 22. PROG key

V2109 Series Dome Controller Keyboard





- Provides RS-485 and Manchester codes for direct control over dome cameras and receivers
- Built-in RS-485 generator providing multiple baud rates and protocols
- LCD display indicating camera number, controller status and digital inputs
- 3-D variable speed joystick allows for PTZ /lens control, and control over high-speed dome cameras
- Control of iris, zoom and focus
- Built-in beeper, which will alarm once operation mistake happened or alarm received
- Control of presets, patterns and autopan
- LED indicating the running status of the system

The V2109 Dome Controller is compatible with the high-speed dome cameras/receivers under multiple protocols such as MANCHESTER, PELCO-D/P, SAMSUNG, VICON and INFINOVA. It is capable of handling camera switching, menu programming, PTZ and LENS control, PRESET/PATTERN/AUTOPAN control, dome menu programming, etc.

The V2109 dome controller can directly communicate with high-speed dome cameras/receivers via RS-485 or Manchester code. The 3-D joystick on the CONTROLLER can control fixed or variable-speed pan/tilt or high-speed dome cameras. The lens key allows for control of motorized lenses, including: IRIS (OPEN/CLOSE), FOCUS (FAR/NEAR), and ZOOM (WIDE/TELE). The LCD indicates the spot camera number, as well as any digital inputs from the keyboard.

General		
Communication Protocol	RS-485, Manchester	
RS-485 Baud Rate (bps)	1200, 2400, 4800, 9600, 19200	
RS-485 protocols	INFINOVA, PELCO-D/P, SAMSUNG, VICON	
Electrical		
Input Voltage	120VAC/60Hz, 230VAC/50Hz	
Power Consumption	3 W	
Mechanical		
Discounting (H. MACD)	2.2" × 12.44" × 6.5"	
Dimension (H×W×D)	(55mm × 316mm × 165mm)	
Package Size (H×W×D)	6.7" × 14.0" × 9.3"	
Package Size (TXVVXD)	(171mm × 355mm × 235mm)	
Unit Weight	5.6lbs. (2.55 kg)	
Shipping Weight	7.9lbs. (3.58 kg)	
Environmental		
Operating Temperature	32°F~104°F (0°C~40°C)	
Operating Humidity	0~90%RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/LVD ¹ : EN60950-1:2006;	
	FCC, UL, cUL, ISO 9001:2008	

Certificate No.: 1 BCT09FC-497S.

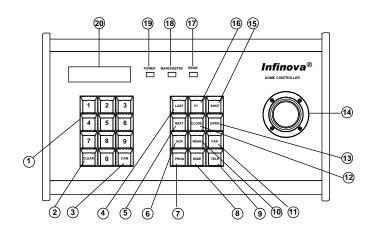
Ordering information

and RS-485/Manchester code output, 120V/60Hz

V2109X Keyboard, Dome Controller with LCD display, 3-D joystick

and RS-485/Manchester code output, 230V/50Hz

Panel diagram



1. NUMERIC keys

2. CLEAR key4. LAST key

3. CAM key

6. ACK key

5. NEXT key

or real ne

7. PROG key

8. WIDE key

9. TELE key

10. NEAR key

11. FAR key

12. CLOSE key

13. OPEN key

14. JOYSTICK key

15. SHOT key

16. F1 key

17. RS485 LED

18. MANCHESTER LED

19. POWER LED

20. LCD display

V2215-J1 Series USB Desktop Controller





- 3 axes joysticks for P/T/Z control
- Programmable pushbutton switches
- USB 1.1 HID compliant "game controller"
- Easy to use and operate
- Optional programming software

V2215-J1 USB Desktop Controller is a cost-efficient USB device, specifically designed for responsive and accurate control of all Infinova PTZ and IP PTZ dome cameras.

V2215-J1 USB Desktop Controller is equipped with an USB cable and thus very easy to install. Just connect the joystick to the USB port and it is up and running, controlling all the Infinova PTZ and PTZ dome cameras. No proprietary protocols or protocol converters are needed.

It features a three-axis, durable (Hall-effect) joystick with X/Y-axis for positioning and turning knob for zoom. The joystick comes with twelve programmable push-buttons: two on top of the handle and ten on the base.

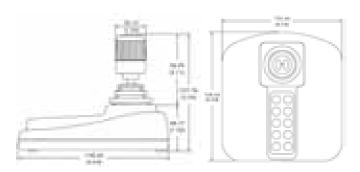
V2215-J1 integrates seamlessly with any video surveillance software platform that supports Infinova cameras and joystick inputs via Microsoft's DirectX.

Joystick performance	Hall effect three axes joystick
Joystick performance	X/Y/Z for positioning control
Joystick Travel	36° for X and Y axes
Joystick Havei	60° for Z axis
Centering	Single spring, omni directional
Joystick shaft	Stainless steel
Joystick boot	Neoprene
Joystick handle	Glass filled nylon
	10 tactile pushbuttons on housing
Pushbutton performance	Two tactile pushbuttons on joystick
	3,000,000 cycles
Desktop housing	High impact ABS
Dower	Via USB interface (5V DC)
Power	Consumption 32mA
Interface	USB port
Connectors	USB Type A Male
Connectors	Cable Length: 2m; 6ft. 6.8in
Systems support integration	Windows 7, Vista, XP, and 2000
	USB HID 1.1 game controller
	Direct X (Gaming Control)
Supported Protocols	Joystick: Three HID axes
Supported Frotocois	Pushbuttons: 12 HID buttons
	Uses standard DirectX HID drivers
	Connects directly to workstation PC
Weight	1.0 lb (440 g)
Operating Temperature	-13°F ~ +185°F (-25°C ~ +85°C)
Certifications and Approval	
Product Certifications	CE: EN 55024:1998, EN 55022;
	FCC Part 15 Subpart B Class B;
	RoHs compliant

Ordering information

V2215-J1 USB Desktop Controller for Infinova PTZ and IP PTZ dome cameras

Dimensions



(Unit: mm, in the parentheses is inch)

V2401 Series Video Distribution Amplifiers





- 4 or 16 video outputs from a single video input
- Status indicating LEDs
- B & W or color video compatible
- Wide frequency response
- No adjustment required

In most CCTV installations, video signals may need to be sent over a long distance for viewing at remote sites. Long distance transmission or video looping for multiple sources of the same signal can cause total video signal loss, attenuation, and significant signal degradation. V2401 Series Video Distribution Amplifier provides a solution to these problems.

V2401-4 generates up to four video outputs from a single video input source; V2401-16 Video Distribution Amplifier provides a maximum of 16 video outputs. Each newly generated output is equal to the original input source. V2401 will amplify the video signal and distribute it to each of its outputs that can then be used for multiple operations that would normally require looping on the same signal. V2401 features color or B&W video capabilities, a wide frequency response and status indicating LEDs.

Video	
Video Input	1.0 Vp-p composite signal, 75 Ohm BNC
Video Output	1.0 Vp-p composite signal, 75 Ohm BNC
Maximum video outputs	4 or 16 outputs
Amplitude-Frequency Characteristics	±1.0dB (5.8 MHz)
Bandwidth	5Hz to 7.5MHz
Electrical	
Supply Voltage	120VAC/60Hz; 230VAC/50Hz
Power Requirements	<3 W
Power Cord	3-wire grounded, 18 AWG
Mechanical	
Dimensions (H \times W \times D)	1.75" x 8.11" x 10.5" (44mm x 206mm x 262mm)
Package Size (H × W × D)	6.7" x 9.3" x 14.0" (171mm x 235mm x 355mm)
Unit Weight	3.74lbs. (1.7 kg)
Shipping Weight	4.4lbs. (2 kg)
Mounting	Desktop or rack mount optional
Environmental	
Operating Temperature	32°F~140°F (0°C~60°C)
Operating Humidity	0~90%RH (non-condensing)
Certifications and Approv	al
Product Certifications	V2401-4, V2401-4X:
	CE/LVD ¹ : EN60950-1:2006;
	CE/EMC ² : EN 55022, EN 55024;
	FCC ³ Class A;
	V2401-16, V2401-16X:
	CE/LVD ⁴ : EN60950-1:2006;
	CE/EMC ⁵ : EN 55022, EN 55024, EN
	61000-3-2, EN 61000-3-3;
	FCC ⁶ Class A;
	V2401-4, V2401-4X, V2401-16,
	V2401-16X:

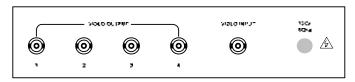
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⁵RSZ07121702-1&2; ⁶RSZ07121703.

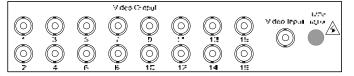
Ordering information

V2401-4	Video distribution amplifier, 1 V In, 4 V Out,
	120VAC/60Hz
V2401-16	Video distribution amplifier, 1 V In, 16 V Out,
	120VAC/60Hz
V2401-4X	Video distribution amplifier, 1 V In, 4 V Out,
	230VAC/50Hz
V2401-16X	Video distribution amplifier, 1 V In, 16 V Out,
	230VAC/50Hz

Panel diagrams



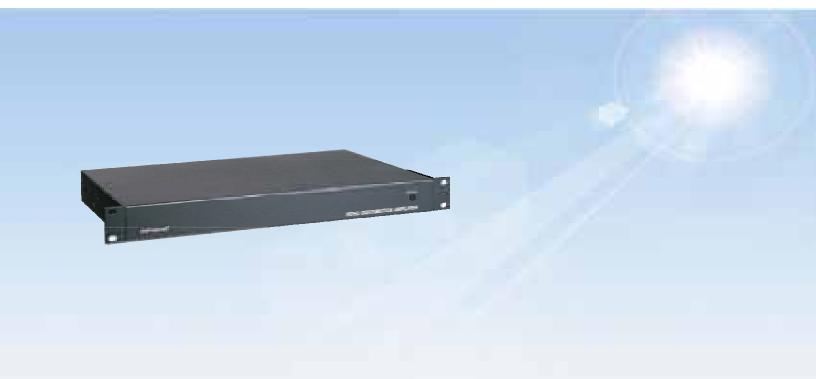
V2401-4 Rear Panel



V2401-16 Rear Panel

V2403 Series Video Looping Amplifier





- 1 set of 4 video inputs, 8 sets of 4 video outputs
- 1 set of 8 video inputs, 4 sets of 8 video outputs
- 1 set of 16 video inputs, 2 sets of 16 video outputs
- Compact design and easy installation
- LED indicator for system power status
- B & W or color video compatible
- Wide frequency response
- No adjustment required
- Desktop or rack mounting optional

In most CCTV installations, video may be needed for different purposes such as recording and switching. The V2403-16 video distribution amplifier provides 8 sets of 4 video outputs from one set of 4 video inputs, 4 sets of 8 video outputs from one set of 8 video inputs and 2 sets of 16 video outputs from one set of 16 video inputs. The V2403-16 distributes each video signal into 8, 4, or 2, with no adjustments required.

The V2403 provides a flexible solution of extending the original video from the camera for output to both DVR or other recording devices and matrix switching systems for a maximum of security coverage.

Other features include B&W and color video compatibility and a wide range of frequency response. Rack and desktop mounting versions are available.

Video	
Video input	1.0 Vp-p composite signal, 75 Ohm BNC
Video output:	1.0 Vp-p composite signal, 75 Ohm BNC
Maximum Video Inputs	16
Maximum Video Outputs	2 sets of 16
Amplitude-Frequency Characteristics	±1.0dB (5.8 MHz)
Bandwidth	5Hz to 7.5MHz
Electrical	
Supply Voltage	100~240VAC
Power Requirements	<6 W
Mechanical	
Dimension (H × W × D)	1.7" × 19.0" × 10.2" (44mm × 483mm × 260mm)
Package Size (H × W × D)	4.6" × 22.0" × 15.7" (117mm × 559mm × 400mm)
Unit Weight	3.41lbs. (1.55 kg)
Shipping Weight	7.1lbs. (3.23 kg)
Mount	Optional 19" rack mounting or desktop mounting
Environmental	
Temperature (indoor)	32°F ~122°F (0°C ~ 50°C)
Humidity (indoor)	0~90 % RH (non-condensing)
Certifications and Approval	
Product Certifications	CE, FCC, UL, cUL, ISO 9001:2008

Ordering information

V2403-4	Video looping panel with amplifier, 1 set of 4V In,
	8 sets of 4V Out, 100~240VAC
V2403-8	Video looping panel with amplifier, 1 set of 8V In,
	4 sets of 8V Out, 100~240VAC
V2403-16	Video looping panel with amplifier, 1 set of 16 V
	In, 2 sets of 16 V Out, 100~240VAC

Panel diagrams	
Infinova [®]	PORES O VIDEO DISTRIBUTION AMPLIFIER
Front Panel	
<u>(0000</u>	000000000000000000000000000000000000000
	V2403-4 Rear Panel
0000000	000000000000000000000000000000000000000
V2403-8 Rear Panel	
000000	000000000000000000000000000000000000000

V2403-16 Rear Panel

V2405A-4 Series RS-232 Data Port Expander





- Expands a single RS-232 data port into 4 RS-232 ports
 (allows four keyboards to be connected to a single port)
- Selectable baud rate
- LED lamps to indicate the power and communication status

The V2405A-4 data port expander interfaces with any Infinova matrix switcher via a single RS-232 port. Through the V2405A-4, the connected port is expanded to as many as 4 RS-232 ports, for connection to devices, such as keyboards, PCs and printers.

V2405A-4 is compatible with matrices produced by Infinova and other main producers.

Communication	
Port	RJ-45
Protocol	RS-232
Baud Rate(bps)	4800, 9600
Electrical	
Input Voltage	100~240VAC, 50/60Hz
Power Requirements	< 3W
Mechanical	
	1.8" × 19.0" × 10.8"
Dimensions (H \times W \times D)	(45mm × 483mm × 275mm)
Doologo Cino (LL v M v D)	5.5" × 22.0" × 15.5"
Package Size (H × W × D)	(140mm × 559mm × 393mm)
Unit Weight	4.9lbs. (2.2kg)
Shipping Weight	6.4lbs. (2.9kg)
Mounting	Surface or rack mounting
Environmental	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Humidity	0 ~ 90 % RH (non-condensing)
Certifications and Approval	
Product Certifications	CE, FCC, ISO 9001:2008

Ordering information

Communication port expander, 1 RS-232 In, 4 RS-232 Out, V2405A-4 100~240VAC self-adaptive

Panel diagram



- (1) Keyboard Port A
- (2) Keyboard Port B
- (3) Keyboard Port C
- (4) Keyboard Port D
- (6) Baud (Set baud rate)
- (5) RS-232 Port

(7) Reset

(8) Power

V2410 Series RS-485 Code Distributor





- One RS-485 code input, 16 RS-485 code outputs
- Code and power indicators
- Compatible with V2011 and V2015 Matrix Switching Systems
- Screw terminal connectors to make the installation easy and quick

The V2410 series RS-485 control code distributor provides a maximum of 16 buffered RS-485 control code outputs to Infinova series receivers and super domes from a single control code source input. One control code distributor processes information for a maximum of 16 receivers. The V2410 series are compatible with V2011 and V2015 series matrix switching systems and control code sources.

General	
RS-485 Connector	Plug-in terminal connector double shielded
Electrical	
Input Voltage	120VAC/60Hz; 230VAC/50Hz
Power Requirements	2 W
Mechanical	
Discounting (II M D)	1.75" × 8.23" × 10.3"
Dimensions (H × W × D)	(44mm × 209mm × 262mm)
Doologo Cino /L v W v LI	4.3" × 10.7" × 14.3"
Package Size (L × W × H)	(108mm × 273mm × 362mm)
Unit Weight	3.09lbs. (1.40 kg)
Shipping Weight	4.9lbs. (2.2 kg)
Environmental	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Operating Humidity	0 ~ 90% RH (non-condensing)
Certifications and Approval	
Product Certifications	CE/EMC ¹ : EN 55022, EN 55024,
	EN 61000-3-2, EN 61000-3-3;
	FCC ² Class A;
	UL, cUL, ISO 9001:2008

Certificate No.: 1 RSZ07121702-1&2; 2 RSZ07121703.

Ordering information

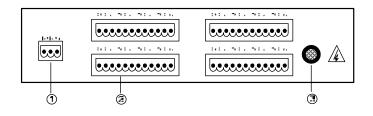
V2410 Code Distributor, RS-422/RS-485, 1 V In, 16 V Out,

uni-directional, 120VAC/60Hz

V2410X Code Distributor, RS-422/RS-485, 1 V In, 16 V Out,

uni-directional, 230VAC/50Hz

Panel diagram



- (1) RS-485 code input
- (2) 16 RS-485 code outputs
- (3) Power inlet

V2411 Series Code Converter/Distributor





- Interfaces with matrix switchers V2015, V2020 and V2040 via high-speed data line (HSDL)
- Generates up to 16 RS-485 Outputs from one HSDL input
- DIP switch selectable 3rd party dome protocols
- Status indicating LEDs for power and data connections
- Selectable camera groups, baud rate and protocols via
- DIP switch
- Screw terminal connectors to simplify installation

The V2411 series control code converter/distributor receives one high-speed data line (HSDL) code input from a matrix switcher/controller and provides16 RS-485 output. For example, an HSDL input line can generate 16 RS-485 outputs with protocols such as Pelco-P/D, Vicon, Bosch Biphase, Kalatel and Samsung. The output codes can provide control of PTZ, domes, lenses, zoom, iris, focus as well as certain auxiliary equipments.

Multiple V2411 units can be cascaded on the same original high-speed data line source to control up to 1,024 cameras.

General	
HSDL 1	Input/output BNC interface
HSDL 2	Input/output BNC interface
Electrical	
Input Voltage	100~240VAC, 60/50Hz
Power Requirements	2.8 W
Mechanical	
Diagramatica (11) (11)	1.7" × 8.2" × 10.3"
Dimensions ($H \times W \times D$)	(44mm × 209mm × 262mm)
Darles Ci/II M D)	4.3" × 10.7" × 14.3"
Package Size($H \times W \times D$)	(108mm × 273mm × 362mm)
Unit Weight	3.3lbs. (1.5kg)
Shipping Weight	5lbs. (2.26kg)
Environmental	
Temperature	32°F ~ 104°F (0°C ~ 40°C)
Humidity	0~90 % RH (non-condensing)
Certifications and Approval	
Product Certifications	V2411:
	CE/EMC ¹ : EN 55022, EN 55024, EN
	61000-3-2, EN 61000-3-3;
	CE/LVD ² : EN 60950-1:2006
	V2411, V2411U:
	FCC, ISO 9001:2008
Environmental Temperature Humidity Certifications and Approva	32°F ~ 104°F (0°C ~ 40°C) 0~90 % RH (non-condensing) V2411: CE/EMC¹: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3; CE/LVD²: EN 60950-1:2006 V2411, V2411U:

Certificate No.: 1 CTE09030003; 2 CTS09030002.

Ordering information

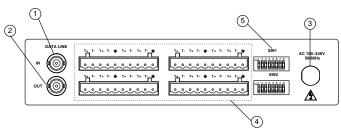
V2411 Code converter/distributor, high speed data line (HSDL) input, 16 Infinova RS-485 outputs, 100~240VAC, 60/50Hz

V2411U Code converter/distributor, high speed data line (HSDL) input, 16 Multi-protocol RS-485 outputs, 100~240VAC, 60/50Hz

V2991-1 Rack mount kit for one 8-inch unit, 1U height

V2991-2 Rack mount kit for two 8-inch units, 1U height

Panel diagram

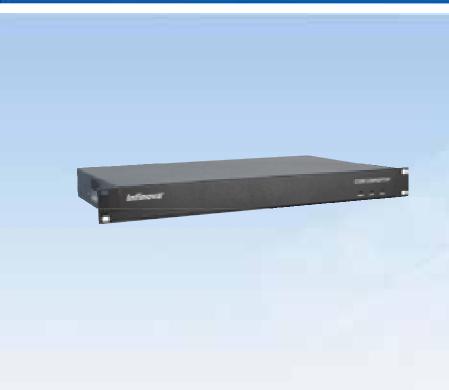


- (1) HSDL input
- (2) HSDL output
- (3) Power cord
- (4) RS-485 control code outputs
- (5) Switches

V2413 Series







- Provides one Manchester/Biphase input, one HSDL input, and two RS-485 inputs
- Provides 16 Manchester/Biphase, 16 RS-485 or 8 RS-422 code outputs, which can control a maximum of 16 pan/tilts or decoders
- Sets control priority levels for all input protocols
- Communicates with other matrixes via Manchester/Biphase, HSDL or RS-485
- Compatible with Infinova series video matrix switching/control system

V2413 series multi-protocol data merger/code distributor is used for converting high-speed data line (HSDL), RS-485, Manchester/Biphase code input from any Infinova video matrix switching/control system to Machester/Biphase, RS-485 or RS-422 control code signal, so as to realize the control over Manchester/Biphase or RS-485 series front-end decoders and domes by video matrixes or any third party controlling devices. The V2413 series multi-protocol data merger/code distributor is compatible with HSDL, RS-485, and Manchester/Biphase protocols.

Meanwhile, it is available to set priority levels for input protocols of V2413 multiple-protocol data merger/code distributor, so as to meet clients' different requirements.

Dimensions (H × W × D)	1.77" × 19.02" × 10.83"
	(45mm × 483mm × 275mm)
Package Size (L × W × H)	15.5" × 22.0" × 5.5"
	(393mm × 559mm × 140mm)
Unit Weight	4.4 lbs. (2.0 kg)
Shipping Weight	6.4 lbs. (2.9 kg)
Power Supply	100~240VAC, 50/60Hz
Power Consumption	7 W
	Rack mount, desk, or wall mount
Mount	optional
Operating Temperature	32°F ~ 104°F (0°C~40°C)
Operating Humidity	0~90%RH (non-condensing)
Certifications and Approval	
Product Certifications	CE/EMC ¹ : EN 55022, EN 55024, EN
	61000-3-2, EN 61000-3-3;
	CE/LVD ² : EN 60950-1:2006;
	FCC ³ : Part 15 Subpart B;
	UL, cUL, ISO 9001:2008

Certificate No.: 1 BCT08LC-994E; 2 BCT08LC-996S; 3 BCT08LC-995E.

Ordering information

V2413A Code/data merger/distributor, multiple protocols input,

16 RS-485 or 8 RS-422 outputs, 100~240VAC

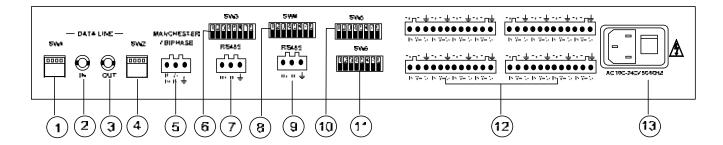
self-adaptive

V2413MA Code/data merger/distributor, multiple protocols input,

16 Manchester/Biphase outputs, 100~240VAC

self-adaptive

Panel diagram



- (1) HSDL priority level setting
- (2) HSDL input
- (3) HSDL output
- (4) Manchester/Biphase input protocol selection and priority level setting
- (5) Manchester/Biphase Input
- (6) The first RS-485 input baud rate, priority level and protocol setting
- (7) The first RS-485 protocol input
- (8) The second RS-485 input baud rate, priority level and protocol setting
- (9) The second RS-485 protocol input
- (10) Output baud rate and protocol selection (it is null for Manchester/Biphase output)
- (11) Manchester/Biphase output protocol selection or RS-485/RS-422 working pattern selection and output controllable camera range setting
- (12) Manchester/Biphase/RS-485/RS-422 output
- (13) Power input and switch

V2414 Series Up-the-Coax Code Converter





- Provides one Manchester code ,one HSDL(high-speed data line) and one RS-485 code input
- Provides 16 control signal outputs to control 16 up-the-coax protocol Infinova PTZ domes
- Can control all input protocols
- Multiple protocols and baud rates optional for RS-485 input
- The address number of PTZ domes or decoders controlled can be expanded
- Communicates with Infinova series matrix switchers via Manchester code, HSDL or RS-485
- Compatible with Infinova video matrix switching systems

The V2414 up-the-coax code converter is used to convert Manchester control code, HSDL, or RS-485 control code from Infinova series video matrix switchers to up-the-coax control signals for control over the up-the-coax series receivers/dome cameras. The V2414 up-the-coax code converter is compatible with HSDL, RS-485 and Manchester protocol.

The input protocol setup for the V2414 up-the-coax code converter is optional to meet the various requirements of the customers.

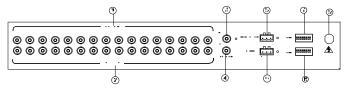
Electrical		
Input Voltage	120VAC/60Hz, 230VAC/50Hz	
Power Requirements	8 W	
Mechanical		
Discoursiance (11 M D)	1.77" × 19.02" × 10.83"	
Dimensions (H × W × D)	(45mm × 483mm × 275mm)	
2 1 6: (11 11/ 2)	5.5" × 22.0" × 15.5"	
Package Size (H × W × D)	(140mm × 559mm × 393mm)	
Unit Weight	4.4 lbs. (2.0 kg)	
Shipping Weight	7.9lbs. (3.6 kg)	
Mount	Rack mount, desk, or wall mount	
	optional	
Environmental		
Temperature (indoor)	32°F ~ 104°F (0°C ~ 40°C)	
Humidity (indoor)	0 ~ 90% RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE, FCC, UL, cUL, ISO 9001:2008	

Ordering information

V2414 Code converter/distributor, Manchester, HSDL and RS485 Input, 16 Up-the-Coax protocol outputs (compatible with Coaxitron), 120VAC/60Hz

V2414X Code converter/distributor, Manchester, HSDL and RS485 Input, 16 Up-the-Coax protocol outputs (compatible with Coaxitron), 230VAC/50Hz

Panel diagram



- (1) Video input (control command output)
- (2) Video output
- (3) HSDL input
- (4) HSDL output
- (5) Manchester code input
- (6) RS-485 input
- (7) Baud rate and protocol selection (4 bits for each)
- (8) Input selection (2 bits) and address grouping (6 bits)
- (9) Power cord

V2421A Series Switch Follower





- 32 addressable & programmable Form-A relays
- Select camera groups and monitor groups via DIP switch
- Multiple units can be cascaded down the same single data stream
- Power supply and data LEDs to indicate system status
- Interfaces with the V2011 and V2015 matrix switcher/controller via Manchester code
- Interfaces with V2015, V2020 and V2040 matrix switcher/controllers via high-speed data line (HSDL)
- Compatible with Infinova series video matrix switching system

The V2421A series switch follower is compatible with all Infinova matrix switching systems. The unit can provide up to 32 addressable Form-A relay outputs. The relays can be grouped in series and addressed to a single monitor, or can be split into two groups of 16 for two specific monitors. The operator may use the DIP switch located in the rear panel to select the camera and monitor group.

A specific relay will close when the associated camera is switched to the monitor by manual operation of the keyboard or by the system tour.

Multiple V2421A units can be cascaded together to provide more relay outputs.

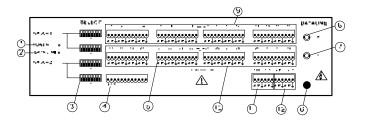
Connections		
Alarm Output	Detachable screw terminals	
Relay Output	Two groups, 16 relays for each group	
High-speed Data Line	BNC interface, input/output	
Manchester	Screw terminal connectors, two wires	
Electrical		
Input Voltage	100~240VAC, 50/60Hz	
Power Requirements	8 W	
Mechanical		
D: ' (II) M D)	3.5" × 19" × 8"	
Dimension (H × W × D)	(89mm × 483mm × 204mm)	
D C' (II) D)	15" × 22.5" × 6.3"	
Package Size (H × W × D)	(159mm × 571mm × 381mm)	
Unit Weight	7.7lbs. (3.5 kg)	
Shipping Weight	10.6lbs. (4.81 kg)	
Environmental		
Temperature (indoor)	32°F ~ 104°F (0°C ~ 40°C)	
Humidity (indoor)	0 ~ 90% RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/LVD ¹ : EN 60950-1:2006;	
	FCC ² : Part 15 Subpart B;	
	UL, cUL, ISO 9001:2008	

Certificate No.: 1 CTS09030007; 2 BCT09FC-498E.

Ordering information

V2421A Switch follower, 32 relay outputs, $100^{\sim}240\text{VAC}$, self-adaptive

Panel diagram



- Power Supply Indicator
- (2) Data Indicator
- **DIP Switch**
- (4) Manchester Code Input
- Form-A Relay
- **Power Supply**
- **HSDL** Output (7)
- (8) HSDL Input
- (10) Relay Group 2
- (9) Relay Group 1
- (11) Relay Group 1 Input/Output
- (12) Relay Group 2 Input/Output

V2422A Series Alarm Follower





- 32 addressable & programmable Form-A relays
- Select alarm monitor groups via DIP switch
- Multiple units can be cascaded down the same single data stream
- Power supply and data LEDs to indicate system status
- Interfaces with V2015, V2020 and V2040 matrix switcher/controllers via high-speed data line (HSDL)

The V2422A provides 32 relay outputs to follow alarm monitors.

The addressable Form-A relays are divided into 2 groups of 16. Each relay group can be individually programmed in order to respond to linked matrix switcher alarm events. These relays can control auxiliary equipments such as video recorders.

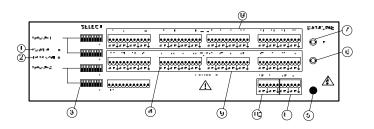
Connections		
Relay Output	Two groups, 16 relays for each group	
HSDL	BNC interface, input/output	
Electrical		
Input Voltage	100~240VAC, 50/60Hz	
Power Requirements	8 W	
Mechanical		
Dini (II)M D)	3.5" × 19" × 8"	
Dimension ($H \times W \times D$)	(89mm × 483mm × 204mm)	
D 1 C: (II) W D)	15" × 22.5" × 6.3"	
Package Size (H × W × D)	(159mm × 571mm × 381mm)	
Unit Weight	7.7lbs. (3.5 kg)	
Shipping Weight	10.6lbs. (4.81 kg)	
Environmental		
Temperature (indoor)	32°F ~ 104°F (0°C ~ 40°C)	
Humidity (indoor)	0 ~ 90% RH (non-condensing)	
Certifications and Approva	al	
Product Certifications	CE/EMC ¹ : EN 55022, EN 55024,	
	EN 61000-3-2, EN 61000-3-3;	
	CE/LVD ² : EN 60950-1:2006;	
	FCC ³ : Part 15 Subpart B;	
	UL, cUL, ISO 9001:2008	

Certificate No.: 1 CTE09030003; 2 CTS09030007; 3 BCT09FC-498E.

Ordering information

V2422A Alarm follower, 32 relay outputs, 100~240VAC, self-adaptive

Panel diagram



- (1) Power Supply Indicator
- (2) Data Indicator
- (3) DIP Switch
- (4) Form-A Relay
- (5) Power Supply
- (6) HSDL Output
- (7) HSDL Input
- (8) Relay Group 1
- (9) Relay Group 2
- (10) Relay Group 1 Input/Output
- (11) Relay Group 2 Input/Output

V2423A Series Auxiliary Follower





- 32 addressable & programmable Form-A relays
- Multiple units can be cascaded down the same single data stream
- Power supply and data LEDs to indicate system status
- Select camera groups and auxiliary equipments via DIP-switch
- Interfaces with V2015, V2020 and V2040 matrix switchers/controllers via high speed data lines (HSDL) and V2011 and V2015 via Manchester code
- Compatible with Infinova series video matrix switching system

The V2423A auxiliary follower provides 32 addressable Form-A relays to synchronize with the switching of auxiliary contacts that are associated with individual video inputs.

The relays can be split into two groups of 16 for each group, and can be sent to follow a specific instruction to activate a door switch or auxiliary lighting equipment etc. Multiple units can be cascaded to provide more relay outputs.

Connections		
Relay Output	Two groups, 16 relays for each group	
HSDL	BNC interface, input/output	
Manchester	Screw terminal connectors, two wires	
Electrical		
Input Voltage	100~240VAC, 50/60Hz	
Power Requirements	8 W	
Mechanical		
S: ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	3.5" × 19" × 8"	
Dimension ($H \times W \times D$)	(89mm × 483mm × 204mm)	
D 1 (C' (11 11/ D)	15" × 22.5" × 6.3"	
Package Size (H × W × D)	(159mm × 571mm × 381mm)	
Unit Weight	7.7lbs. (3.5 kg)	
Shipping Weight	10.6lbs. (4.81 kg)	
Environmental		
Temperature (indoor)	32°F ~ 104°F (0°C ~ 40°C)	
Humidity (indoor)	0 ~ 90% RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/LVD ¹ : EN 60950-1:2006;	
	FCC ² : Part 15 Subpart B;	
	UL, cUL, ISO 9001:2008	

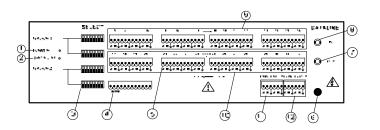
Certificate No.: 1 CTS09030007; 2 BCT09FC-498E.

Ordering information

V2423A Auxiliary Follower, 32 relay outputs,

100~240VAC, self-adaptive

Panel diagram



-) Power Supply Indicator (2) Data Indicator
- (3) DIP Switch (4) Manchester Code Input
- (5) Form-A Relay(6) Power Supply(7) HSDL Output(8) HSDL Input
 - Relay Group 1 (10) Relay Group 2
- (11) Relay Group 1 Input/Output (12) Relay Group 2 Input/Output

V2431 Series Alarm Interface





- Manages up to 64 alarm inputs
- Up to 16 units can be cascaded together on a single
 RS-232 data stream to provide a total of 1,024 alarms
- Select to accept normally open or normally closed alarm inputs via DIP switch
- 1 relay output available to activate recording, alarm, lights or other devices
- Compatible with all Infinova matrix switcher/controller systems
- Screw terminal connectors to simplify installation

The V2431 alarm interface is compatible with all Infinova matrix switcher/controllers and utilizes RS-232 interfaces to communicate.

The alarm interface unit is capable of receiving up to 64 normally open or normally closed alarm inputs. Multiple units can be cascaded down the same data stream to provide up to 1,024 alarm inputs.

The V2431 is equipped with two RS-232 ports which forward information to the matrix for processing and response. Each alarm contact input forwarded to the matrix system is programmed to trigger specific actions throughout the system. LEDs are provided to indicate power and alarm activity.

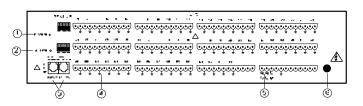
Operational		
	64 contact closures (Closures to ground	
Alarm Inputs	or 0 V to 5 V logic levels), N/O or N/C;	
	Programmable in blocks of 8	
Address Range	16 blocks of 64 for maximum of 1,024	
	RS-232, communicate with system CPU	
Alarm Outputs	via RJ-45 connector	
Alarm Indication	LED & Form-C relay output	
LEDs	2 (power and alarm)	
Connectors		
RS-232	RJ-45	
Alarm Inputs	Eleven 12-pin removable screw terminals	
Electrical		
Input Voltage	120VAC/60Hz, 230VAC/50Hz	
Power Requirements	8 W	
Mechanical		
	3.5" × 19" × 8"	
Dimension (H \times W \times D)	(89mm × 483mm × 204mm)	
Package Size (H × W × D)	6.3" × 22.5" × 15"	
Package Size (H × W × D)	(159mm × 571mm × 381mm)	
Unit Weight	6.8 lbs. (3.1 kg)	
Shipping Weight	9.9 lbs. (4.5 kg)	
Environmental		
Temperature (indoor)	32°F ~ 104°F (0°C ~ 40°C)	
Humidity (indoor)	0 ~ 90% RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/EMC ¹ : EN 55022, EN 55024,	
	EN 61000-3-2, EN: 61000-3-3;	
	CE/LVD ² : EN 60950-1:2006;	
	FCC ³ : Part 15 Subpart B;	
	UL, cUL, ISO 9001:2008	

Certificate No.: 1 CTE09030003; 2 CTS09030003; 3 BCT09FC-498E.

Ordering information

V2431 Alarm Interface, 64 alarm inputs, 120VAC/60Hz V2431X Alarm Interface, 64 alarm inputs, 230VAC/50Hz

Panel diagram



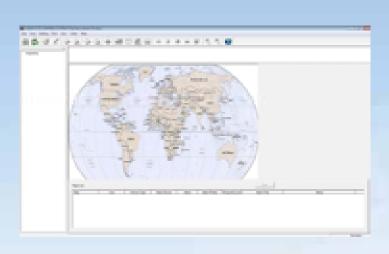
(1) Power Indicator

- (2) Alarm Indicator
- (3) Communication Ports (RS-232)
- (4) Alarm Inputs
- (5) Alarm Relay Output
- (6) Power Cord

V2210 Series







- Compatible with matrix, alarm interface, access control and IP dome camera
- User priority level can be defined to limit certain operations
- Supports CCTV centralized management
- On-screen simulated keyboard
- Supports live video display, compatible with DVR video, Network video and multiple video cards
- Electronic maps and graphics
- Integrates with Port Alarm, Network Alarm, and VISTA Network Alarm
- PTZ, lens and auxiliary switch control
- Supports intelligent operations of dome cameras
- Provides alarm scheme
- Network time synchronization

The V2210 is a video management software package for controlling a complete CCTV system. The V2210 controls Infinova matrix switchers and receives network alarm via TCP/IP network; controls alarm interfaces and multiplexers via RS-232 serial ports. The V2210 allows an entire CCTV system to be controlled from a single PC platform.

The V2210 is compatible with powerful access control module, making user to get real time details of access control, such as video materials of cardholder, and real time video image. It also supports event handling, which can call the e-map of any details and display the video image of the event. Besides, some small icons to indicate operating actions are provided, helping user to handle event more convenience.

Username and password login screens are provided for a maximum level of security. The login feature also ensures that users can only operate the system at his/her own authorized level of administration. When appropriate video server is supplied, the system supports real-time on-screen video display. V2210 features a built-in module that simplifies the operation of Infinova multiplexers.

System features

Multilevel Control and Graph Display

- High security level
- 64 control levels to limit user's operations exactly
- Complete graph display and icon edit
- All operations can be saved

CCTV Management and Control

- Performs switch, preview and PTZ control over the cameras connected to matrixes
- Performs tour and salvo
- Provides simulated keyboard to control matrix's operation

Alarm and Network Alarm

- Links with alarm devices and CCTV devices
- Timing arming/disarming and alarm events record are provided
- Integral arming/disarming. Input alarm events upon alarm response for backup
- User with lower control level can not control alarm and link of higher level
- Supports Vista alarm ,Vista network alarm and alarm link

Multiplexer Control

- A simulated on-screen control panel allows users to operate rapidly
- 4/9/16 photos display
- Multiple CCTV modules can be defined, and the modules' start time can be set separately
- Starts the control icon, and then it will perform CCTV link control according to the setup

TV Wall Operation

• Self-design the TV wall module, and easily switch it by mouse

Ordering information

V2210-S Matrix GUI software, LAN control for network switchers, no

PC video capture card, supports LAN video

V2210-K Matrix GUI software, LAN control for network switchers,

w/PC video capture card, supports LAN video

System requirements

System Required	PC platform
Hardware Requirements	Intel® Pentium® IV 2.6G (or better) with 64MB RAM available Graphics card with 1024x768 resolution
Operating System	Windows 2003, Windows 2008, Windows XP or Windows 7
Ports Required	Ethernet/LAN (Additional serial ports will be required if multiple systems are being controlled)
Parallel Port	1
Operating Device	Mouse and keyboard
Video Server	Use video server recommended by Infinova

V3060 Series







- H.264 video compression and G.711A audio compression
- Up to 16-ch analog video inputs, PAL/NTSC supported
- Dual-stream encoding, partial channels support up to 4CIF at major stream, and CIF/QCIF at minor stream
- 1-ch VGA video output, 2-ch BNC video outputs (including 1-ch BNC auxiliary output)
- Preview group/manual switching
- Motion detection, video mask detection, video loss detection
- Supports various leading PTZ decoder control protocols, presets, and patterns
- Multiple recording types: manual, scheduled, alarm (including motion detection)
- Various alarm inputs such as hard disk full, illegal access, IP conflict, hard disk error
- Easy adjustment of resolution, code flow, frame rate and image quality
- Support intercom
- Support watermark technology

V3060 series network digital video recorder is a new generation DVR which integrates multiple technologies such as embedded system, storage and network technologies.

V3060 series network DVR supports a maximum of 16 channels local video inputs with video looping and 16 channels audio inputs. Each analog channel supports H.264 dual-stream compression and the partial channels support up to 4CIF at the major stream. The recorder supports USB2.0 high-speed backup as well as simple mouse and keyboard operation. It also supports composite streams and video stream encoding. Audio and video are synchronized in composite stream encoding.

V3060 series network DVR can not only work independently at a local site, but also build a powerful security surveillance network. This series has been widely used in finance, public security, military, telecom, traffic, power station, education, and water projects.

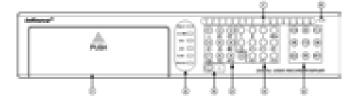
Video	
Video Compression	H.264
Video Input	8/16-ch BNC (1.0Vp-p, 75Ω)
Video Output	2-ch BNC (1.0Vp-p, 75Ω); 1-ch VGA
Video Looping Output	8/16-ch BNC (1.0Vp-p, 75Ω)
Format Supported	PAL, NTSC
	PAL: 4CIF (704 × 576), 2CIF (704 × 288),
	CIF (352 × 288), QCIF (176 × 144);
	NTSC: 4CIF (704 × 480), 2CIF (704 × 240),
Recording Resolution	CIF (352 × 240), QCIF (176 × 120)
	Note: All channels support the maximum
	resolution of 4CIF, but only 2 channels can be
Evano Data	set at 4CIF synchronously
Frame Rate	PAL: 1~25 fps; NTSC: 1~30 fps
Video Output Bit Rate	256kbps ~ 2.5Mbps, adjustable
Audio	0.7444
Audio Compression	G.711A
Audio Input	8/16-ch, DB15 port
Audio Output	1-ch BNC (1.4Vp-p, 300Ω)
Intercom Input	1-ch BNC (1.0Vp-p, $75Ω$)
Intercom Output	1-ch BNC (1.0 Vp-p, 75Ω)
Audio Output Bit Rate	16kbps
Port	4.00.000 (0.45)
Communication Port	1 RS-232 (RJ45);
	1 RS-422 (4-pin terminal)
Network Port	1*10M/100M/1000M self-adaptive Ethernet
Alarm	port, RJ-45 16 inputs, 4 outputs (5VDC)
Alailii	1, on rear panel;
USB	1, on front panel
Storage	1, on none panel
	V3060A: 8 SATA hard disks;
Hard Disk	V3060W: 4 SATA hard disks
	External USB; Internal SATA DVD writer
Backup	(V3060W)
Recording	
Decording Made	3 modes: manual, scheduled and alarm
Recording Mode	(including motion detection)

Network		
Protocol	TCP/IP, RTP, UDP, ICMP, DHCP, DNS, NTP, SNMP etc.	
Others	Support narrow band connection; upload alarm signals through network	
Operational		
Operating System	Embedded Linux system	
Users	Two-level user access management; three-level priority settings	
Operation Methods	Front panel, remote controller, mouse and V2111 keyboard	
Electrical		
Power Supply	100~240VAC, self-adaptive	
Power Consumption	< 45W (no HD); < 85W (with 8 HDs)	
Power Off Protection	Power on self-recovery	
Mechanical		
Product Weight	V3060A: 12.57lbs (5.7kg);	
(No hard disk)	V3060W: 14.33lbs (6.5kg)	
Shipping Weight	V3060A: 18.30lbs (8.3kg);	
(No hard disk)	V3060W: 20.50lbs (9.3kg)	
Product Dimension	3.50" × 17.32" × 17.72"	
$(H \times W \times D)$	(89mm × 440mm × 450mm)	
	3.70" × 17.56" × 18.11"	
Maximum Installation	(94mm × 446mm × 460 mm)	
Dimension	(Including the washer height, housing ear	
$(H \times W \times D)$	thickness and rear panel BNC terminal	
	length), 19-inch (2U) EIA rack mounting	
Environmental		
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)	
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	
Humidity	5%~90% RH (non-condensing)	
Certifications and Approval		
Product Certifications	CE/EMC: EN 55022, EN 55024,	
	EN 61000-3-2, EN 61000-3-3 ¹ ;	
	FCC: Part 15 Subpart B ² ;	
	ISO 9001:2008	

Certificate No.: 1 BCT10KC-1869E; 2 BCT10KC-1870E.

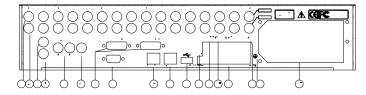
Panel View

Front Panel View



- 1. Channel Indicator
- 2. Numeric Keyboard Buttons and Assistant Buttons
- 3. System Indicator
- 4. System Control Buttons
- 5. Power On/Off Button
- 6. PTZ Control/Menu Control Buttons
- 7. Internal DVR Writer (invalid for V3060A)
- 8. Infrared receiver

Rear Panel View



(E.g.16-channel)

- 1. Video Input Ports
- 2. Video Looping Output Ports
- 3. Audio Line In Port
- 4. Audio Line Out port
- 5. Video Output
- 6. Audio Output
- 7. Audio Input
- 8. VGA Video Output Port
- 9. Ethernet Port
- 10. RS-232 Port
- 11. USB Port
- 12. RS422 Resistor Switch
- 13. Keyboard Port
- 14. RS-422 Port
- 15. Alarm Output
- 16. Alarm Input
- 17. Grounding Terminal
- 18. Power Supply and Cooling Fan

Ordering information

V3060W Digital Video Recorders-, SATA, Video Looping & Audio Inputs, partial 4CIF(D1), w/DVD writer, Includes Remote Client Software

8 - Channel		16 - Channel	
V3060W-08-1000	1 TB	V3060W-16-1000	1 TB
V3060W-08-2000	2 TB	V3060W-16-2000	2 TB
V3060W-08-3000	3 TB	V3060W-16-3000	3 TB
V3060W-08-4000	4 TB	V3060W-16-4000	4 TB
V3060W-08-5000	5 TB	V3060W-16-5000	5 TB
V3060W-08-6000	6 TB	V3060W-16-6000	6 TB
V3060W-08-7000	7 TB	V3060W-16-7000	7 TB
V3060W-08-8000	8 TB	V3060W-16-8000	8 TB

V3060A Digital Video Recorders, SATA, Video Looping & Audio Inputs, partial 4CIF(D1), No DVD writer, Includes Remote Client Software

8 - Channel		16 - Channel	
V3060A-08-1000	1 TB	V3060A-16-1000	1 TB
V3060A-08-2000	2 TB	V3060A-16-2000	2 TB
V3060A-08-3000	3 TB	V3060A-16-3000	3 TB
V3060A-08-4000	4 TB	V3060A-16-4000	4 TB
V3060A-08-5000	5 TB	V3060A-16-5000	5 TB
V3060A-08-6000	6 TB	V3060A-16-6000	6 TB
V3060A-08-7000	7 TB	V3060A-16-7000	7 TB
V3060A-08-8000	8 TB	V3060A-16-8000	8 TB

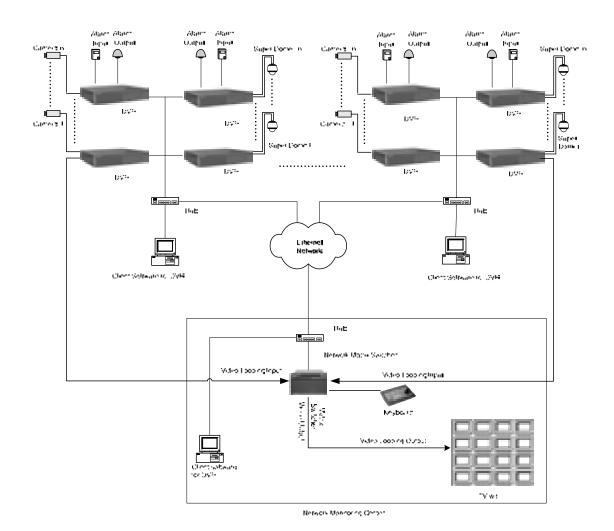
V3060W Digital Video Recorders, SATA, Video Looping & Audio Inputs, full CIF, w/ DVD writer, No hard disks

Note: Accepts up to 4 SATA 3.5 inch Drives		
V3060W-08	8 Ch. (8V + 8A, Video Looping Outputs)	
V3060W-16	16 Ch. (16V + 16A, Video Looping Outputs)	

V3060A Digital Video Recorders, SATA, Video Looping & Audio Inputs, full CIF, No DVD writer, No hard disks

Note: Accepts up to 8 SATA 3.5 inch Drives		
V3060A-08	8 Ch. (8V + 8A, Video Looping Outputs)	
V3060A-16	16 Ch. (16V + 16A, Video Looping Outputs)	
Hard Disks Ordering Information		
V3091-1000S	SATA HD, 1TB	
V3091-2000S	SATA HD, 2TB	
Internal DVD Drives Ordering Information		
V3094S-P	DVD Writer, Internal SATA Interface	
Recommended Accessories		
V2111	Keyboard, Dome & DVR Controller, Joystick, RS485 port, 120 VAC	
V2111X	Keyboard, Dome & DVR Controller, Joystick, RS485 port, 230 VAC	

System Application



V3061 Series







- H.264 video compression and G.711A audio compression
- Up to 16-ch analog video inputs, PAL/NTSC supported
- Dual-stream encoding, main stream supports up to 4CIF, minor stream supports CIF/QCIF
- Three separate local outputs: VGA, main and auxiliary video outputs, audio output
- Motion detection, video mask detection, video loss detection
- Multiple recording types: manual, scheduled, alarm (including motion detection)
- Various alarm inputs such as hard disk full, illegal access, network break, IP conflict, hard disk error
- Easy adjustment of resolution, code flow, frame rate and image quality
- Supports intercom
- Watermark technology

V3061 series network digital video recorder is a new generation DVR which integrates multiple technologies such as embedded system, storage and network technologies.

V3061 series network DVR supports a maximum of 16 channels local video inputs with video looping and 16 channels audio inputs. Each analog channel supports H.264 dual-stream compression with up to 4CIF (D1) resolution at the major stream. The recorder supports USB2.0 high-speed backup as well as simple mouse and keyboard operation. It also supports composite streams and video stream encoding. Audio and video are synchronized in composite stream encoding.

V3061 series DVR can not only work independently at a local site, but also build a powerful security surveillance network. This series has been widely used in finance, public security, military, telecom, traffic, power station, education and water projects.

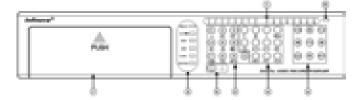
Video			
Video Compression	H.264		
Video Input	8/16-ch BNC (1.0Vp-p, 75Ω)		
Video Output	2-ch BNC (1.0Vp-p, 75Ω); 1-ch VGA		
Video Looping Output	8/16-ch BNC (1.0Vp-p, 75Ω)		
Format Supported	PAL, NTSC		
	PAL: 4CIF (704 × 576), 2CIF (704 × 288),		
Recording Resolution	CIF (352 × 288), QCIF (176 × 144);		
recording resolution	NTSC: 4CIF (704 × 480), 2CIF (704 × 240),		
	CIF (352 × 240), QCIF (176 × 120)		
Frame Rate	PAL: 1~25 fps; NTSC: 1~30 fps		
Video Output Bit Rate	256 kbps ~ 2.5Mbps, adjustable		
Audio			
Audio Compression	G.711A		
Audio Input	8/16-ch, DB15 port		
Audio Output	1-ch BNC (1.4Vp-p, 300Ω)		
Intercom Input	1-ch BNC (1.0Vp-p, 75Ω)		
Audio Output Bit Rate	16kbps		
Port			
Communication Port	1 RS-232 (RJ45);		
Communication Port	1 RS-422 (4-pin terminal)		
Network Port	2*10M/100M/1000M self-adaptive Ethernet		
Network Port	ports, RJ-45		
Alarm	16 inputs, 4 outputs (5VDC)		
USB	2, on rear panel;		
ОЗВ	1, on front panel		
Storage			
Hard Disk	V3061A: 8 SATA hard disks;		
Hara Disk	V3061W: 4 SATA hard disks		
Backup	External USB; Internal SATA DVD writer		
Баскир	(V3061W)		
Recording			
Recording Mode	3 modes: manual, scheduled and alarm		
recording wode	(including motion detection)		
Network			
Protocol	TCP/IP, RTP, UDP, ICMP, DHCP, DNS, NTP,		
1100001	SNMP, etc.		

Others	Support narrow band connection; upload alarm signals through network			
Operational				
Operating System	Embedded Linux system			
Users	Two-level user access management; three-level priority settings			
Operation Methods	Front panel, remote controller, mouse and V2111 keyboard			
Electrical				
Power Supply	100~240VAC, self-adaptive			
Power Consumption	<45W (no HD); <85W (with 8 HDs)			
Power Off Protection	Power on self-recovery			
Mechanical				
Product Weight (No hard disk)	V3061A: 12.57lbs (5.7kg); V3061W: 14.33lbs (6.5kg)			
Shipping Weight	V3061A: 18.30lbs (8.3kg);			
(No hard disk)	V3061W: 20.50lbs (9.3kg)			
Product Dimensions	3.50" × 17.32" × 17.72"			
$(H \times W \times D)$	(89mm × 440mm × 450mm)			
	3.70" × 17.56" × 18.11"			
Maximum Installation	(94mm × 446mm × 460 mm)			
Dimensions	(Including the washer height, housing ear			
$(H \times W \times D)$	thickness and rear panel BNC terminal			
	length), 19-inch (2U) EIA rack mounting			
Environmental				
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)			
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)			
Humidity	5%~90% RH (non-condensing)			
Certifications and Appro	val			
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ ; CE-LVD: EN 60950-1:2006 ² ; FCC: Part 15 Subpart B ³ ; ISO 9001:2008			
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Certificate No.: 1 BCT10KC-1869E; 2 BCT10KC-1869S. 3 BCT10KC-1870E

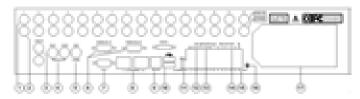
Panel View

Front Panel View



- 1. Channel Indicator
- 2. Numeric Keyboard Buttons and Assistant Buttons
- 3. System Indicator
- 4. System Control Buttons
- 5. Power On/Off Button
- 6. PTZ Control/Menu Control Buttons
- 7. Internal DVR Writer (invalid for V3061A)
- 8. Infrared receiver

Rear Panel View



(E.g.16-channel)

- 1. Video Input Ports
- 2. Video Looping Output Ports
- 3. Audio Line In Port
- 4. Video Output
- 5. Audio Output
- 6. Audio Input
- 7. VGA Video Output Port
- 8. Ethernet Port
- 9. RS-232 Port
- 10. USB Port
- 11. RS422 Resistor Switch
- 12. Keyboard Port
- 13. RS-422 Port
- 14. Alarm Output
- 15. Alarm Input
- 16. Grounding Terminal
- 17. Power Supply and Cooling Fan

Ordering information

V3061W Digital Video Recorders, SATA, Video Looping & Audio Inputs, full 4CIF, w/DVD writer, Includes Remote Client Software

8 - Channel 16 - Channel			
V3061W-08-1000	1 TB	V3061W-16-1000	1 TB
V3061W-08-2000	2 TB	V3061W-16-2000	2 TB
V3061W-08-3000	3 TB	V3061W-16-3000	3 TB
V3061W-08-4000	4 TB	V3061W-16-4000	4 TB
V3061W-08-5000	5 TB	V3061W-16-5000	5 TB
V3061W-08-6000	6 TB	V3061W-16-6000	6 TB
V3061W-08-7000	7 TB	V3061W-16-7000	7 TB
V3061W-08-8000	8 TB	V3061W-16-8000	8 TB

V3061A Digital Video Recorders, SATA, Video Looping & Audio Inputs, full 4CIF, No DVD writer, Includes Remote Client Software

inputs, full 4CiF, No DVD writer, includes Remote Client Software					
8 - Channel		16 - Channel			
V3061A-08-1000	1 TB	V3061A-16-1000	1 TB		
V3061A-08-2000	2 TB	V3061A-16-2000	2 TB		
V3061A-08-3000	3 TB	V3061A-16-3000	3 TB		
V3061A-08-4000	4 TB	V3061A-16-4000	4 TB		
V3061A-08-5000	5 TB	V3061A-16-5000	5 TB		
V3061A-08-6000	6 TB	V3061A-16-6000	6 TB		
V3061A-08-7000	7 TB	V3061A-16-7000	7 TB		
V3061A-08-8000	8 TB	V3061A-16-8000	8 TB		
V3061A-08-9000	9 TB	V3061A-16-9000	9 TB		
V3061A-08-10000	10 TB	V3061A-16-10000	10 TB		
V3061A-08-11000	11 TB	V3061A-16-11000	11 TB		
V3061A-08-12000	12 TB	V3061A-16-12000	12 TB		
V3061A-08-13000	13 TB	V3061A-16-13000	13 TB		
V3061A-08-14000	14 TB	V3061A-16-14000	14 TB		
V3061A-08-15000	15 TB	V3061A-16-15000	15 TB		
V3061A-08-16000	16 TB	V3061A-16-16000	16 TB		

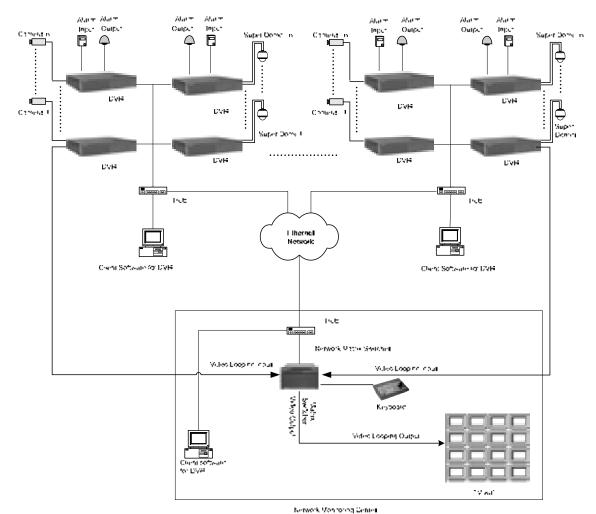
V3061W Digital Video Recorders, SATA, Video Looping & Audio Inputs, full 4CIF, w/DVD writer, No hard disks

Note: Accepts up to 4 SATA 3.5 inch Drives		
V3061W-08	8 Ch. (8V + 8A, Video Looping Outputs)	
V3061W-16	16 Ch. (16V + 16A, Video Looping Outputs)	

V3061A Digital Video Recorders, SATA, Video Looping & Audio

Inputs, full 4CIF, No DVD writer, No hard disks				
Note: Accepts up to	Note: Accepts up to 8 SATA 3.5 inch Drives			
V3061A-08	8 Ch. (8V + 8A, Video Looping Outputs)			
V3061A-16	16 Ch. (16V + 16A, Video Looping Outputs)			
Hard Disks Ordering	g Information			
V3091-1000S	SATA HD, 1TB			
V3091-2000S	SATA HD, 2TB			
Internal DVD Drives Ordering Information				
V3094S-P	DVD Writer, Internal SATA Interface			
Recommended Accessories				
V2111	Keyboard, Dome & DVR Controller, Joystick, RS485 port, 120 VAC			
V2111X	Keyboard, Dome & DVR Controller, Joystick, RS485 port, 230 VAC			

System Application



Printed Association

V3062 Series







- H.264 and G.711A compression standards with stable encoding performance
- 4-ch full 4CIF encoding, with dual-stream for each video channel
- 4-ch synchronal playback
- Video encoding parameters are adjustable for each channel independently, including resolution, frame rate, bit rate, image quality etc.
- Supports compound stream and video stream encoding, and audio and video streams are synchronal in compound stream encoding
- 1-ch HD VGA output, CVBS main/auxiliary output, and VGA video resolution includes: 800×600 @ 60Hz, 1024×768 @ 60Hz, 1280×1024 @ 60Hz
- Supports zoom of the playback image, mouse clicking pan and area zoom
- 1/4 screen preview, sequence adjustable of preview channels
- Multiple recording types: manual, scheduled, alarm triggered
- Various alarm inputs such as video loss, motion detection, video block, illegal access, network break, hard disk full, IP conflict etc.
- Hard disk sleep
- USB2.0 port for external hard disk and mouse devices etc.
- Watermark technology

V3062 Series DVR integrates advanced video compression and storage technologies, with 4 channels analog video inputs, 4 channels full 4CIF H.264 video encoding and G.711A audio encoding. It supports synchronal audio inputs, USB2.0 high-speed backup, and mouse operations.

The functional DVR can be widely used in security surveillance for small shops, band ATMs, public security, telecommunication, traffic, and education etc.

Video	
Video Compression	H.264
Video Input	4-ch BNC (1.0Vp-p, 75Ω)
Tideo IIIpac	1-ch VGA (Resolutions: 800 × 600 @ 60Hz, 1024 × 768 @ 60Hz, 1280 × 1024 @ 60Hz,
Video Output	1440 × 900 @ 60Hz); 2-ch BNC (1.0Vp-p, 75Ω), 1 main output and 1 auxiliary output
Format Supported	PAL, NTSC
Recording Resolution	PAL: 4CIF(704 × 576), 2CIF(704 × 288), CIF(352 × 288), QCIF(176 × 144); NTSC: 4CIF(704 × 480), 2CIF(704 × 240), CIF(352 × 240), QCIF(176 × 120)
Frame Rate	PAL: 1~25fps, NTSC: 1~30fps
Output Bit Rate	256kbps ~ 2560kbps, adjustable
Audio	
Audio Compression	G.711A
Audio Input	4-ch RCA (1.0Vp-p)
Audio Output	1-ch RCA, linear output
Intercom Input	1-ch RCA, linear input
Port	
Serial Port	1 RS-485 (4-PIN terminal, T+/T-/R+/R-)
Network Port	1*10M/100M/1000M self-adaptive Ethernet port, RJ-45
Alarm Port	4 inputs, 2 outputs
USB Port	2, on rear side
Storage	
Hard Disk	2 SATA ports (built-in), 2T (maximum)
Backup	Record backup through USB port
Recording	
Recording Mode	3 modes: manual, scheduled, alarm (including motion detection)

Network			
Protocol	TCP/IP, RTP, UDP, ICMP, DHCP, DNS, NTP, SNMP etc.		
Others	Narrow band connection, alarm signal transmission via network		
Operational			
Operating System	Embedded Linux system		
Users	Two-level user access management		
Operation	Front panel, remote controller, mouse		
Electrical			
Power Supply	12VDC		
Power Consumption	≤10W (no hard disk)		
Power Off Protection	Power on self-recovery		
Mechanical			
Product Weight	4.74lbs (2.15kg)		
(No hard disk)			
Product Dimension	1.73" × 12.60" × 10.70"		
(H×W×D)	(44mm × 320mm × 272mm)		
Packing Dimension	21.65" × 21.26" × 7.44"		
(L×W×H)	(550mm × 540mm × 189mm)		
Environmental			
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)		
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)		
Operating Humidity	5% ~ 90% RH (non-condensing)		
Certifications and Approval			
Product Certifications	CE/EMC: EN 55022, EN 55024,		
	EN 61000-3-2, EN 61000-3-3;		
	FCC: Part 15 Subpart B;		
	ISO 9001:2008		

Ordering information

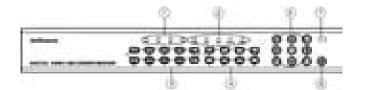
V3062 Digital Video Recorders, SATA, 4 Ch. analog video IN & 4 Ch. audio IN, full 4CIF				
4 - Channel				
V3062-4-1000	1 TB	V3062-4-3000	3 TB	
V3062-4-2000	2 TB	V3062-4-4000	4 TB	

V3062 Digital Video Recorders, SATA, 4 Ch. analog video IN & 4 Ch. audio IN, full 4CIF, No Hard Disks		
Note: Accepts up to 2 SATA 3.5" Drives		
V3062-4	4 Ch. (4V + 4A)	

Hard Disks Ordering Information	
V3091-1000S	SATA HD, 1TB
V3091-2000S	SATA HD, 2TB

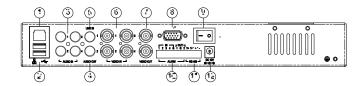
Panel View

Front Panel View



- 1. Channel Indicator
- 2. System Indicator
- 3. Numeric Keyboard Buttons and Assistant Buttons
- 4. System Control Buttons
- 5. PTZ Control/Menu Control Buttons
- 6. Power On/Off Button
- 7. Infrared Receiver

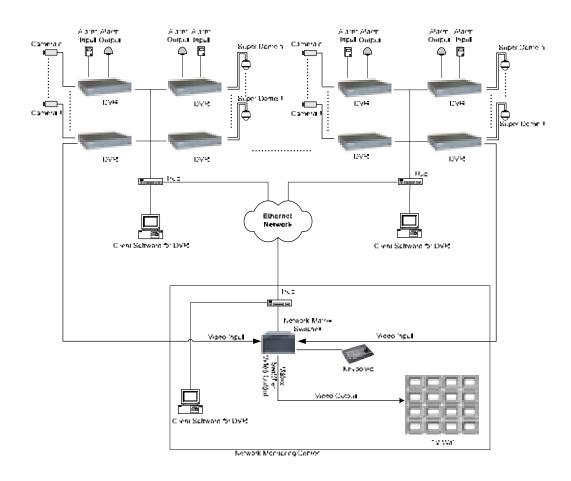
Rear Panel View



- 1. 10M/100M/1000M Ethernet Port
- 2. USB Port (2)
- 3. Audio Input
- 4. Audio Output
- 5. Audio Line In
- 6. Video Input

- 7. Video Output
- 8. VGA Video Output
- 9. Power On/Off Button
- 10. Alarm (4 inputs /2 outputs)
- 11. RS-485 port (T+/T-/R+/R-)
- 12. Power Supply (12VDC)

System Application



Fiber Optic Communications Product Family



N3510, N3511, N3710 & N3711 Series Digital Video Transmission System









- 8 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3510, N3511, N3710 & N3711 series provides the ability to transmit 1 digitally encoded video channel over one optic fiber.

Modular in design, the N3510, N3511, N3710 & N3711 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall. There are mini module transmitters N3510TA-M, N3710TA-M available for space efficiency.

Video Performance	
Video Channel	1
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	8 bits
Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310nm
Connector	FC
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output	Green
Presence	G . 66.1.
General Parameters	1007 - 15707 (1000 - 7100)
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions (W ×H ×D)	0.79" x 5.08" x 6.73" (20mm x 129mm x 171mm)
Module Dimensions	0.94" x 6.22" x 7.87"
(W ×H × D)	(24mm x 158mm x 200mm)
Mini Module Dimensions	4.61" x 2.36" x 1.14"
$(W \times H \times D)$	(117mm x 60mm x 29mm)
Power Consumption	3.0W
Card Weight	0.84lbs. (0.38kg)
Module Weight	1.57lbs. (0.71kg)
Mini Module Weight	0.44lbs. (0.2kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appro	val
Product Certifications	N3511/N3711: FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3,
	UL, cUL, ISO 9001:2008

Certificate No.: 1 BCT08KC-877E; 2 BCT08KC-876E

Ordering information

N3510TA-M	FO MM TX, 1V In, Mini Module, 12VDC/24VAC
N3511TA-M	FO MM TX, 1V In, Module, 12VDC/24VAC
N3511TA-R	FO MM TX, 1V In, Card, 1-Slot
N3511RA-M	FO MM RX, 1V Out, Module, 12VDC/24VAC
N3511RA-R	FO MM RX, 1V Out, Card, 1-Slot
N3710TA-M	FO SM TX, 1V In, Mini Module, 12VDC/24VAC
N3711TA-M	FO SM TX, 1V In, Module, 12VDC/24VAC
N3711TA-R	FO SM TX, 1V In, Card, 1-Slot
N3711RA-M	FO SM RX, 1V Out, Module, 12VDC/24VAC
N3711RA-R	FO SM RX, 1V Out, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310	4.4
61	20	1310	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 15 slots per 19" x 3U subrack; 100 W/250 W dual power supply

System diagram



N3531 & N3731 Series



Single Channel Digital Video with Multi-protocol DIP Selectable Data



V > + D <> + B <>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- On-panel DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester / Biphase
- On-panel DIP activation of 120 Ohm termination resistor
- LED indicators for operation status monitoring
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3531 and N3731 series provides the ability to transmit one digitally encoded video channel with bi-directional RS-232 / RS-422 and DIP selectable data (RS-422 / RS-485 / Manchester / Biphase) over one or two fibers.

Modular in design, the N3531 and N3731 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack chassis. Stand-alone module used the N3910-1S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	1
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output	
Presence	Green
Data Input/Output	Green
Presence	dicen
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	0.79" x 5.08" x 6.73"
(W ×H ×D)	(20mm x 129mm x 171mm)
Module Dimensions (W ×H × D)	0.94" x 6.22" x 7.87" (24mm x 158mm x 200mm)
Power Consumption	2.5W
Card Weight	0.88lbs. (0.40kg)
Module Weight	1.61lbs. (0.73kg)
Mean Time Between	1.01.03. (0.73Kg)
Failures	>100,000 Hrs
Certifications and Appr	roval
	FCC ¹ , CE/EMC ² : EN 55022, EN 55024,
Product Certifications	EN 61000-3-2, EN 61000-3-3,
	UL, cUL, ISO 9001:2008

Certificate No.: 1 BCT08KC-877E; 2 BCT08KC-876E

Ordering information

N3531TA-1D1B-M FO MM TRX, 1V In, 1D IO +1 RS-232 IO, Module,

12VDC/24VAC

N3531RA-1D1B-M FO MM TRX, 1V Out, 1D IO +1 RS-232 IO, Module,

12VDC/24VAC

N3731TA-1D1B-M FO SM TRX, 1V In, 1D IO +1 RS-232 IO, Module,

12VDC/24VAC

N3731RA-1D1B-M FO SM TRX, 1V Out, 1D IO +1 RS-232 IO, Module,

12VDC/24VAC

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
c: 1 1	20	1310/1550	25
Single-mode	*Higher output lasers	available for range ove	r 25km

Note

- 1. For Card unit, replace "-M" with "-R" in the model number.
- 2. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 4. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W/250 W power supply
- 15 slots per 19" x 3U subrack; 100 W/250 W dual power supply

System diagram



N3532 & N3732 Series







V> + A<> + D<> + B<> + E<>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Multiple audio format on-board jumper configurable
- Factory default setting RS-232 optional
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-board jumper activation of 120 Ohm termination resistor
- Selectable 600 Ohm (balanced/unbalanced), 10k Ohm (unbalanced) and 47k Ohm (unbalanced) audio
- LED indicators for monitoring of system operating status
- Surge protection against transient surge and over voltage
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3532 and N3732 series provides the ability to transmit one digitally encoded video channel with audio, data and contact closure combination over one optic fiber.

Modular in design, the N3532 and N3732 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	1
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Audio Performance	10 010
Audio Format	600 Ohm (balanced/unbalanced);
	10k Ohm /47k Ohm (unbalanced)
Audio Level	-6~+6dBm
Frequency Response	10Hz ~ 20kHz
Signal-to-Noise Ratio	75dB (weighted)
Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
Contact Closure	
Response Time	50ms (Active low)
Contact Current	1A @ 30 VDC; 0.5A @ 125 VAC
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video/Audio/Data	
Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	0.79" x 5.08" x 6.73"
(W ×H ×D)	(20mm x 129mm x 171mm)
Module Dimensions	0.94" x 6.22" x 7.87"
(W ×H × D)	(24mm x 158mm x 200mm)
Power Consumption	3.9W
Card Weight	0.88lbs. (0.40kg)
Module Weight	1.63lbs. (0.74kg)
Mean Time Between	
Failures	>100,000 Hrs
Certifications and Ap	proval
The state of the s	FCC ¹ , CE/EMC ² : EN 55022, EN 55024,
Product Certifications	EN 61000-3-2, EN 61000-3-3,
	150 0001 2009

Certificate No.: 1 BCT08KC-877E; 2 BCT08KC-876E

ISO 9001:2008

Ordering information

N3532TA-ADBE-M	FO MM TRX, 1V In, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Module, 12VDC/24VAC
N3532TA-ADBE-R	FO MM TRX, 1V In, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Card, 1-Slot
N3532RA-ADBE-M	FO MM TRX, 1V Out, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Module, 12VDC/24VAC
N3532RA-ADBE-R	FO MM TRX, 1V Out, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Card, 1-Slot
N3732TA-ADBE-M	FO SM TRX, 1V In, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Module, 12VDC/24VAC
N3732TA-ADBE-R	FO SM TRX, 1V In, 1D IO +1 RS-232 IO, 1A IO, 1CC IO. Card. 1-Slot
N3732RA-ADBE-M	FO SM TRX, 1V Out, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Module, 12VDC/24VAC
N3732RA-ADBE-R	FO SM TRX, 1V Out, 1D IO +1 RS-232 IO, 1A IO, 1CC IO, Card, 1-Slot
N3732TA-ADB2C-M	FO SM TRX, 1V In, 1D IO+1 RS-232 IO, 1A IO, 2CC IO, Module, 12VDC/24VAC
N3732TA-ADB2C-R	FO SM TRX, 1V In, 1D IO+1 RS-232 IO, 1A IO, 2CC IO, Card, 1-Slot
N3732RA-ADB2C-M	FO SM TRX, 1V Out, 1D IO+1 RS-232 IO, 1A IO, 2CC IO, Module, 12VDC/24VAC
N3732RA-ADB2C-R	FO SM TRX, 1V Out, 1D IO+1 RS-232 IO, 1A IO, 2CC IO, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
6: 1	20	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and
- 2. Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply N3921-12D-1: 12 VDC (120 VAC), 10 VA 12 VDC (230 VAC), 10 VA N3921-12D-2: N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

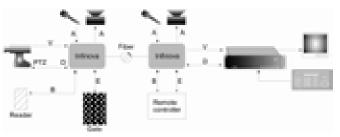
Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System diagram



N3542 & N3742 Series







2V>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3542 and N3742 series provides the ability to transmit 2 digitally encoded video channels over one optic fiber.

Modular in design, the N3542 and N3742 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	2
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310nm
Connector	FC
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	0.79" x 5.08" x 6.73"
(W ×H ×D)	(20mm x 129mm x 171mm)
Module Dimensions $(W \times H \times D)$	0.94" x 6.22" x 7.87" (24mm x 158mm x 200mm)
Power Consumption	2.5W
Card Weight	0.88lbs. (0.40kg)
Module Weight	1.63lbs. (0.74kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Approv	·
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, ISO 9001:2008

Certificate No.: 1 BCT09HC-717E; 2 BCT09HC-716E

Ordering information

N3542TA-M	FO MM TX, 2V In, Module, 12VDC/24VAC
N3542TA-R	FO MM TX, 2V In, Card, 1-Slot
N3542RA-M	FO MM RX, 2V Out, Module, 12VDC/24VAC
N3542RA-R	FO MM RX, 2V Out, Card, 1-Slot
N3742TA-M	FO SM TX, 2V In, Module, 12VDC/24VAC
N3742TA-R	FO SM TX, 2V In, Card, 1-Slot
N3742RA-M	FO SM RX, 2V Out, Module, 12VDC/24VAC
N3742RA-R	FO SM RX, 2V Out, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310	2.2
6: 1 1	17	1310	25
Single-mode	*Higher output lasers a	available for range ov	er 25km

Note

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System diagram



N3544 & N3744 Series







4V>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3544 and N3744 series provides the ability to transmit 4 digitally encoded video channels over one optic fiber.

Modular in design, the N3544 and N3744 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

Video Performance		
Video Channel	4	
Video Input Impedance	750hm	
Video Voltage	1.0Vp-p	
Bandwidth	5Hz~6.5MHz	
Differential Gain	1% (typical)	
Differential Phase	1° (typical)	
Signal-to-Noise Ratio	67dB (weighted)	
PCM Encoding	10 bits	
Optical Performance		
Multi-mode		
Output Power	-12dBm (typical)	
Receiver Sensitivity	-19dBm (typical)	
Wavelength	1310nm	
Connector	ST	
Single-mode		
Output Power	-5dBm (typical)	
Receiver Sensitivity	-22dBm (typical)	
Wavelength	1310nm	
Connector	FC	
LED Indicators		
Power On	Red	
Optical Link Loss	Red	
Video Input/Output Presence	Green	
General Parameters		
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)	
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)	
Operating Humidity	0 ~ 95% RH (non-condensing)	
Card Dimensions	0.79" x 5.08" x 6.73"	
(W ×H ×D) Module Dimensions	(20mm x 129mm x 171mm) 0.94" x 6.22" x 7.87"	
(W ×H × D)	(24mm x 158mm x 200mm)	
Power Consumption	2.9W	
Card Weight	0.90lbs. (0.41kg)	
Module Weight	1.65lbs. (0.75kg)	
Mean Time Between Failures	>100,000 Hrs	
Certifications and Approv	al	
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, ISO 9001:2008	

Certificate No.: 1 BCT09HC-717E; 2 BCT09HC-716E

Ordering information

N3544TA-M	FO MM TX, 4V In, Module, 12VDC/24VAC
N3544TA-R	FO MM TX, 4V In, Card, 1-Slot
N3544RA-M	FO MM RX, 4V Out, Module, 12VDC/24VAC
N3544RA-R	FO MM RX, 4V Out, Card, 1-Slot
N3744TA-M	FO SM TX, 4V In, Module, 12VDC/24VAC
N3744TA-R	FO SM TX, 4V In, Card, 1-Slot
N3744RA-M	FO SM RX, 4V Out, Module, 12VDC/24VAC
N3744RA-R	FO SM RX, 4V Out, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310	2.2
Single-mode *	17	1310	25
	*Higher output lasers available for range over 25km		

Note:

- Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber,
 0.35dB/km @ 1310nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System diagram



N3548 & N3748 Series







8V>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3548 and N3748 series provides the ability to transmit 8 digitally encoded video channels over one optic fiber.

Modular in design, the N3548 and N3748 series can be rack-mounted or used as a stand-alone module. Rack mounting requires N3910 series subrack. Stand-alone module is accomplished with N3910-2S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	8
Video Input Impedance	75Ohm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310nm
Connector	FC
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output	Green
Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	1.57" x 5.08" x 6.73"
(W ×H ×D)	(40mm x 129mm x 171mm)
Module Dimensions	1.73" x 6.22" x 7.87"
(W ×H × D)	(44mm x 158mm x 200mm)
Power Consumption	3.9W
Card Weight	1.30lbs. (0.59kg)
Module Weight	2.36lbs. (1.07kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Approve	
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL, cUL,
Troduct Certifications	ISO 9001:2008

Certificate No.: 1 BCT09HC-715E; 2 BCT09HC-714E

Ordering information

N3548TA-M	FO MM TX, 8V In, Module, 12VDC/24VAC
N3548TA-R	FO MM TX, 8V In, Card, 2-Slot

N3548RA-M FO MM RX, 8V Out, Module, 12VDC/24VAC

N3548RA-R FO MM RX, 8V Out, Card, 2-Slot

N3748TA-M FO SM TX, 8V In, Module, 12VDC/24VAC

N3748TA-R FO SM TX, 8V In, Card, 2-Slot

N3748RA-M FO SM RX, 8V Out, Module, 12VDC/24VAC

N3748RA-R FO SM RX, 8V Out, Card, 2-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310	2.2
6: 1	17	1310	25
Single-mode	*Higher output lasers a	s available for range over 25km	

Note:

- Distance is limited to fiber loss, splices, chromatic dispersion and handwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber,
 0.35dB/km @ 1310nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System diagram



N3551 & N3751 Series



Dual Channel Digital Video with Multi-protocol DIP Selectable Data



2V> + D<> + B<>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- DIP switch selection of RS-422, RS-485 (2 or 4 wires),
 Manchester/Biphase
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3551 and N3751 series provides the ability to transmit 2 digitally encoded video channels with bi-directional RS-232 and DIP selectable data (RS-422/RS-485/Manchester/Biphase) over one optic fiber.

Modular in design, the N3551 and N3751 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-2S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	2
Video Input Impedance	75Ohm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output Presence	Green
Data Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	1.57" x 5.08" x 6.73"
(W ×H ×D)	(40mm x 129mm x 171mm) 1.73" x 6.22" x 7.87"
Module Dimensions (W ×H × D)	(44mm x 158mm x 200mm)
Power Consumption	3.6W
Card Weight	1.21lbs. (0.55kg)
Module Weight	2.27lbs. (1.03kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appro	oval
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, ISO 9001:2008
	3001.2000

Certificate No.: 1 BCT09HC-821E; 2 BCT09HC-820E

Ordering information

N3551TA-1D1B-M	FO MM TRX, 2V In, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3551TA-1D1B-R	FO MM TRX, 2V In, 1D IO +1 RS-232 IO, Card, 2-Slot
N3551RA-1D1B-M	FO MM TRX, 2V Out, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3551RA-1D1B-R	FO MM TRX, 2V Out, 1D IO +1 RS-232 IO, Card, 2-Slot
N3751TA-1D1B-M	FO SM TRX, 2V In, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3751TA-1D1B-R	FO SM TRX, 2V In, 1D IO +1 RS-232 IO, Card, 2-Slot
N3751RA-1D1B-M	FO SM TRX, 2V Out, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3751RA-1D1B-R	FO SM TRX, 2V Out, 1D IO +1 RS-232 IO, Card, 2-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
C'arla arada	17	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

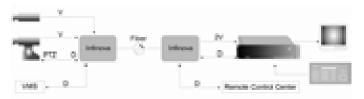
N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply



N3552 & N3752 Series







2V> + 2A<> + 2D<>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Multiple audio format on-board jumper configurable
- Factory default setting RS-232 optional
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-board jumper activation of 120 Ohm termination resistor
- On-board jumper-selectable 600 Ohm (balanced/unbalanced), 10k Ohm (unbalanced) and 47k
 Ohm (unbalanced) audio
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3552 and N3752 series provides the ability to transmit 2 digitally encoded video channels with 2-ch audio and 2-ch data over one optic fiber. Data format supports factory default setting RS-232, DIP selectable RS-422, RS-485, Manchester or Biphase.

Modular in design, the N3552 and N3752 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-2S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	2
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Audio Performance	
Format	600 Ohm (balanced/unbalanced) (Jumper Selectable); 10k Ohm /47k Ohm (unbalanced)
Audio Level	-6 ~ +6dBm
Frequency Response	10 Hz ~ 20k Hz
Signal-to-Noise Ratio	75 dB (weighted)
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video/Audio/Data Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions (W ×H ×D)	1.57" x 5.08" x 6.73" (40mm x 129mm x 171mm)
Module Dimensions	1.73" x 6.22" x 7.87"
(W ×H × D)	(44mm x 158mm x 200mm)
Power Consumption	4.9W
Card Weight	1.26lbs. (0.57kg)
Module Weight	2.31lbs. (1.05kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appr	
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3,

Certificate No.: 1 BCT09HC-821E; 2 BCT09HC-820E

ISO 9001:2008

Ordering information

N3552TA-2A2D-M	FO MM TRX, 2V In, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3552TA-2A2D-R	FO MM TRX, 2V In, 2D IO, 2A IO, Card, 2-Slot
N3552RA-2A2D-M	FO MM TRX, 2V Out, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3552RA-2A2D-R	FO MM TRX, 2V Out, 2D IO, 2A IO, Card, 2-Slot
N3752TA-2A2D-M	FO SM TRX, 2V In, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3752TA-2A2D-R	FO SM TRX, 2V In, 2D IO, 2A IO, Card, 2-Slot
N3752RA-2A2D-M	FO SM TRX, 2V Out, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3752RA-2A2D-R	FO SM TRX, 2V Out, 2D IO, 2A IO, Card, 2-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range km)
Multi-mode	7	1310/1310	2.2
C'arda arada	17	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

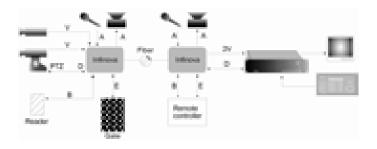
N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- · Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3553 & N3753 Series







2V> + 4D<>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Factory default setting RS-232 data (4B, 2D2B sub-series)
- On-panel DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase (2D2B sub-series)
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase (4D sub-series)
- On-panel DIP activation of 120 Ohm termination resistor (2D2B sub-series)
- On-board Jumper activation of 120 Ohm termination resistor (4D sub-series)
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3553 and N3753 series provides the ability to transmit 2 digitally encoded video channels with 4 multi-protocol data over one optic fiber. Data format supports RS-232 (factory default setting) or DIP selectable RS-422 / RS-485 / Manchester / Biphase data.

Modular in design, the N3553 and N3753 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-2S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	2
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output	Green
Presence	Green
Data Input/Output	Green
Presence	
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	1.57" x 5.08" x 6.73"
(W ×H ×D)	(40mm x 129mm x 171mm)
Module Dimensions	1.73" x 6.22" x 7.87" (44mm x 158mm x 200mm)
(W ×H × D)	4.3W
Power Consumption Card Weight	1.23lbs. (0.56kg)
Module Weight	2.29lbs. (1.04kg)
Mean Time Between	5.531N2. (T.O4VR)
Failures	>100,000 Hrs
Certifications and Appro	oval
cooutions und Appro	FCC ¹ , CE/EMC ² : EN 55022, EN 55024,
	100 , 00, 010 . 114 33022, 114 33024,

Certificate No.: 1 BCT09HC-821E; 2 BCT09HC-820E

System diagram

Product Certifications



ISO 9001:2008

EN 61000-3-2, EN 61000-3-3,

Ordering information

N3553TA-2D2B-M	FO MM TRX, 2V In, 2D IO +2 RS-232, Module,
	12VDC/24VAC
N3553RA-2D2B-M	FO MM TRX, 2V Out, 2D IO +2 RS-232, Module,
	12VDC/24VAC
N3553TA-4D-M	FO MM TRX, 2V In, 4D IO, Module, 12VDC/24VAC
N3553RA-4D-M	FO MM TRX, 2V Out, 4D IO, Module, 12VDC/24VAC
N3553TA-4B-M	FO MM TRX, 2V In, 4 RS-232 IO, Module,
	12VDC/24VAC
N3553RA-4B-M	FO MM TRX, 2V Out, 4 RS-232 IO, Module,
	12VDC/24VAC
N3753TA-2D2B-M	FO SM TRX, 2V In, 2D IO +2 RS-232, Module,
	12VDC/24VAC
N3753RA-2D2B-M	FO SM TRX, 2V Out, 2D IO +2 RS-232, Module,
	12VDC/24VAC
N3753TA-4D-M	FO SM TRX, 2V In, 4D IO, Module, 12VDC/24VAC
N3753RA-4D-M	FO SM TRX, 2V Out, 4D IO, Module, 12VDC/24VAC
N3753TA-4B-M	FO SM TRX, 2V In, 4 RS-232 IO, Module,
	12VDC/24VAC
N3753RA-4B-M	FO SM TRX, 2V Out, 4 RS-232 IO, Module,
	12VDC/24VAC

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
C'arla arada	17	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- 1. For Card unit, replace "-M" with "-R" in the model number
- 2. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- 3. Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 4. Range estimates for multimode are based on1000MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

N3554 & N3754 Series

Four Channel Digital Video with Multi-protocol DIP Selectable Data





4V > + D <> + B <>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-board DIP activation of 120 Ohm termination resistor
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

N3554 and N3754 series provides the ability to transmit 4 digitally encoded video channels with bi-directional RS-232 and DIP selectable data (RS-422/RS-485/Manchester/Biphase) over one optic fiber.

Modular in design, the N3554 and N3754 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-2S and can be placed on a desktop or mounted to a wall.

Video Berfermann			
Video Performance			
Video Channel	4		
Video Input Impedance	750hm		
Video Voltage	1.0Vp-p		
Bandwidth	5Hz~6.5 MHz		
Differential Gain	1% (typical)		
Differential Phase	1° (typical)		
Signal-to-Noise Ratio	67dB (weighted)		
PCM Encoding	10 bits		
Optical Performance			
Multi-mode			
Output Power	-12dBm (typical)		
Receiver Sensitivity	-19dBm (typical)		
Wavelength	1310/1310nm		
Connector	ST		
Single-mode			
Output Power	-5dBm (typical)		
Receiver Sensitivity	-22dBm (typical)		
Wavelength	1310/1550nm		
Connector	FC		
Data Performance			
Data Rate	DC to 115.2kbps		
Bit Error Rate	<10 ⁻⁹		
LED Indicators			
Power On	Red		
Optical Link Loss	Red		
Video Input/Output Presence	Green		
Data Input/Output			
Presence	Green		
General Parameters			
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)		
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)		
Operating Humidity	0 ~ 95% RH (non-condensing)		
Card Dimensions	1.57" x 5.08" x 6.73"		
(W ×H ×D)	(40mm x 129mm x 171mm)		
Module Dimensions	1.73" x 6.22" x 7.87"		
(W ×H × D)	(44mm x 158mm x 200mm)		
Power Consumption	5.0W		
Card Weight	1.25lbs. (0.57kg)		
Module Weight	2.31lbs. (1.05kg)		
Mean Time Between Failures	>100,000 Hrs		
Certifications and Appro	Certifications and Approval		
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL, cUL, ISO 9001:2008		

Certificate No.: 1 BCT09HC-821E; 2 BCT09HC-820E

Ordering information

N3554TA-1D1B-M	FO MM TRX, 4V In, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3554TA-1D1B-R	FO MM TRX, 4V In, 1D IO +1 RS-232 IO, Card, 2-Slot
N3554RA-1D1B-M	FO MM TRX, 4V Out, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3554RA-1D1B-R	FO MM TRX, 4V Out, 1D IO +1 RS-232 IO, Card, 2-Slot
N3754TA-1D1B-M	FO SM TRX, 4V In, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3754TA-1D1B-R	FO SM TRX, 4V In, 1D IO +1 RS-232 IO, Card, 2-Slot
N3754RA-1D1B-M	FO SM TRX, 4V Out, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3754RA-1D1B-R	FO SM TRX, 4V Out, 1D IO +1 RS-232 IO, Card, 2-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
6: 1	17	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

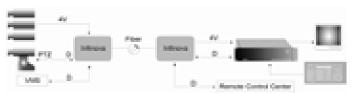
N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3555 & N3755 Series



Four Channel Digital Video with 2-ch Audio and 2-ch Data



4V > + 2A <> + 2D <>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Multiple audio format on-board jumper configurable
- Factory default setting RS-232 optional
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- LED indicators for monitoring of system operating status
- On-board jumper activation of 120 Ohm termination resistor
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

N3555 and N3755 series provides the ability to transmit 4 digitally encoded video channels with 2-ch audio and 2-ch data over one optic fiber. Data format supports factory default setting RS-232, DIP selectable RS-422, RS-485, Manchester or Biphase.

Modular in design, the N3555 and N3755 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-2S and can be placed on a desktop or mounted to a wall.

•	
Video Performance	
Video Channel	4
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Audio Performance	
Format	600 Ohm (balanced/unbalanced) (Jumper Selectable); 10k Ohm/47k Ohm (unbalanced)
Audio Level	-6 ~ +6dBm
Frequency Response	10 Hz ~ 20k Hz
Signal-to-Noise Ratio	75 dB (weighted)
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output Presence	Green
Audio Input/Output Presence	Green
Data Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	1.57" x 5.08" x 6.73"
(W ×H ×D)	(40mm x 129mm x 171mm)
Module Dimensions	1.73" x 6.22" x 7.87"
(W ×H × D)	(44mm x 158mm x 200mm)
Power Consumption	5.7W
Card Weight	1.27lbs. (0.58kg)
Module Weight	2.33lbs. (1.06kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appr	oval
cer uncations and Appr	FCC ¹ , CE/EMC ² : EN 55022, EN 55024,
Product Certifications	EN 61000-3-2, EN 61000-3-3, UL, cUL, ISO 9001:2008

Certificate No.: 1 BCT09HC-821E; 2 BCT09HC-820E

Ordering information

N3555TA-2A2D-M FO MM TRX, 4V In, 2D IO, 2A IO, Module,

12VDC/24VAC

N3555TA-2A2D-R FO MM TRX, 4V In, 2D IO, 2A IO, Card, 2-Slot N3555RA-2A2D-M FO MM TRX, 4V Out, 2D IO, 2A IO, Module,

12VDC/24VAC

N3555RA-2A2D-R FO MM TRX, 4V Out, 2D IO, 2A IO, Card, 2-Slot

N3755TA-2A2D-M FO SM TRX, 4V In, 2D IO, 2A IO, Module,

12VDC/24VAC

FO SM TRX, 4V In, 2D IO, 2A IO, Card, 2-Slot N3755TA-2A2D-R N3755RA-2A2D-M

FO SM TRX, 4V Out, 2D IO, 2A IO, Module,

12VDC/24VAC

N3755RA-2A2D-R FO SM TRX, 4V Out, 2D IO, 2A IO, Card, 2-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
Civile and	17	1310/1550	25
Single-mode	*Higher output lasers a	vailable for range ov	er 25km

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and
- 2. Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

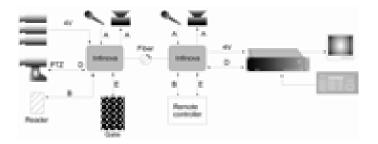
N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3556 & N3756 Series







4V > + 4D <>

- 10 bits digitally encoded video transmission
- NTSC, PAL and SECAM auto compatible
- Surface mount technology
- Factory default setting RS-232 (4B, 2D2B sub-series)
- LED indicators for monitoring of system operating status
- On-board jumper activation of 120 Ohm termination resistor
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3556 and N3756 series provides the ability to transmit 4 digitally encoded video channels with 4-ch multi-protocol data over one optic fiber. Data format supports RS-232 (factory default setting) or DIP selectable RS-422/RS-485/Manchester/Biphase data.

Modular in design, the N3556 and N3756 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-2S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	4
Video Input Impedance	75Ohm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output	Green
Presence	
Data Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	1.57" x 5.08" x 6.73"
(W ×H ×D)	(40mm x 129mm x 171mm)
Module Dimensions	1.73" x 6.22" x 7.87"
$(W \times H \times D)$	(44mm x 158mm x 200mm)
Power Consumption	6.2W
Card Weight	1.26lbs. (0.57kg)
Module Weight	2.29lbs. (1.04kg)
Mean Time Between	>100,000 Hrs
Failures	
Certifications and Appro	
Dec duct Contification	FCC ¹ , CE/EMC ² : EN 55022, EN 55024,
Product Certifications	EN 61000-3-2, EN 61000-3-3, UL, cUL, ISO 9001:2008
	130 3001.2006

Certificate No.: 1 BCT09HC-821E; 2 BCT09HC-820E

System diagram



Ordering information

N3556TA-2D2B-M	FO MM TRX, 4V In, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3556RA-2D2B-M	FO MM TRX, 4V Out, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3556TA-4D-M	FO MM TRX, 4V In, 4D IO, Module, 12VDC/24VAC
N3556RA-4D-M	FO MM TRX, 4V Out, 4D IO, Module, 12VDC/24VAC
N3556TA-4B-M	FO MM TRX, 4V In, 4 RS-232 IO, Module, 12VDC/24VAC
N3556RA-4B-M	FO MM TRX, 4V Out, 4 RS-232 IO, Module, 12VDC/24VAC
N3756TA-2D2B-M	FO SM TRX, 4V In, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3756RA-2D2B-M	FO SM TRX, 4V Out, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3756TA-4D-M	FO SM TRX, 4V In, 4D IO, Module, 12VDC/24VAC
N3756RA-4D-M	FO SM TRX, 4V Out, 4D IO, Module, 12VDC/24VAC
N3756TA-4B-M	FO SM TRX, 4V In, 4 RS-232 IO, Module, 12VDC/24VAC
N3756RA-4B-M	FO SM TRX, 4V Out, 4 RS-232 IO, Module, 12VDC/24VAC

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
C'arte aredo	17	1310/1550	25
Single-mode	*Higher output lasers a	vailable for range ove	er 25km

Note

- 1. For Card unit, replace "-M" with "-R" in the model number
- 2. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 4. Range estimates for multimode are based on 1000MHz/km fiber $\,$

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

N3557 & N3757 Series







8V > + D <> + B <>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-board DIP activation of 120 Ohm termination resistor
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

N3557 and N3757 series provides the ability to transmit 8 digitally encoded video channels with bi-directional RS-232 and DIP selectable data (RS-422/RS-485/Manchester/Biphase) over one optic fiber.

Modular in design, the N3557 and N3757 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-3S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Performance Video Channel	8
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output Presence	Green
Data Input/Output Presence	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0~95% RH (non-condensing)
Card Dimensions	2.40" x 5.08" x 6.73"
(W ×H ×D)	(61mm x 129mm x 171mm)
Module Dimensions	2.56" x 6.22" x 7.87"
(W ×H × D)	(65mm x 158mm x 200mm) 5.6W
Power Consumption	
Card Weight	1.63lbs. (0.74kg)
Module Weight	2.98lbs. (1.35kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appr	oval FCC ¹ , CE/EMC ² : EN 55022, EN 55024,
Product Certifications	EN 61000-3-2, EN 61000-3-3, UL, cUL, ISO 9001:2008

Certificate No.: 1 BCT09HC-717E; 2 BCT09HC-716E

Ordering information

N3557TA-1D1B-M	FO MM TRX, 8V In, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3557TA-1D1B-R	FO MM TRX, 8V In, 1D IO +1 RS-232 IO, Card, 3-Slot
N3557RA-1D1B-M	FO MM TRX, 8V Out, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3557RA-1D1B-R	FO MM TRX, 8V Out, 1D IO +1 RS-232 IO, Card, 3-Slot
N3757TA-1D1B-M	FO SM TRX, 8V In, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3757TA-1D1B-R	FO SM TRX, 8V In, 1D IO +1 RS-232 IO, Card, 3-Slot
N3757RA-1D1B-M	FO SM TRX, 8V Out, 1D IO +1 RS-232 IO, Module, 12VDC/24VAC
N3757RA-1D1B-R	FO SM TRX. 8V Out. 1D IO +1 RS-232 IO. Card.

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
C'arla arada	17	1310/1550	25
Single-mode	*Higher output lasers a	vailable for range ove	er 25km

Note

Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth

3-Slot

- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

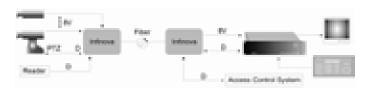
N3922-24A-1: 24 VAC (120 VAC), 50 VA N3922-24A-2: 24 VAC (230 VAC), 50 VA

Applications

- · Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 3 slot modules and 3 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3558 & N3758 Series



Eight Channel Digital Video with 2-ch Audio and 2-ch Data



8V> + 2A<> + 2D<>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Multiple audio format on-board jumper configurable
- Factory default setting RS-232 optional
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- LED indicators for monitoring of system operating status
- On-board jumper activation of 120 Ohm termination resistor
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3558 and N3758 series provides the ability to transmit 8 digitally encoded video channels with 2-ch audio and 2-ch data over one optic fiber. Data format supports factory default setting RS-232, DIP selectable RS-422, RS-485, Manchester or Biphase.

Modular in design, the N3558 and N3758 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-3S and can be placed on a desktop or mounted to a wall.

Video Performance	
Video Channel	8
Video Input Impedance	750hm
Video Voltage	1.0Vp-p
Bandwidth	5Hz~6.5 MHz
Differential Gain	1% (typical)
Differential Phase	1° (typical)
Signal-to-Noise Ratio	67dB (weighted)
PCM Encoding	10 bits
Audio Performance	
Format	600 Ohm (balanced/unbalanced) (Jumper Selectable); 10k Ohm/47k Ohm (unbalanced)
Audio Level	-6 ~ +6dBm
Frequency Response	10Hz ~ 20k Hz
Signal-to-Noise Ratio	75dB (weighted)
Optical Performance	
Multi-mode	
Output Power	-12dBm (typical)
Receiver Sensitivity	-19dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-5dBm (typical)
Receiver Sensitivity	-22dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Video Input/Output	Green
Audio Input/Output	Green
Data Input/Output	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	2.40" x 5.08" x 6.73"
(W ×H ×D)	(61mm x 129mm x 171mm)
Module Dimensions	2.56" x 6.22" x 7.87"
$(W \times H \times D)$	(65mm x 158mm x 200mm)
Power Consumption	7.4W
Card Weight	1.61lbs. (0.73kg)
Module Weight	2.95lbs. (1.34kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appro	oval
Product Certification	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL, cUL, ISO 9001:2008
	130 3001.2000

Certificate No.: 1 BCT09HC-819E; 2 BCT09HC-818E

Ordering information

N3558TA-2A2D-M	FO MM TRX, 8V In, 2D IO, 2A IO, Module, 12VDC/24VAC
N3558TA-2A2D-R	FO MM TRX, 8V In, 2D IO, 2A IO, Card, 3-Slot
N3558RA-2A2D-M	FO MM TRX, 8V Out, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3558RA-2A2D-R	FO MM TRX, 8V Out, 2D IO, 2A IO, Card, 3-Slot
N3758TA-2A2D-M	FO SM TRX, 8V In, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3758TA-2A2D-R	FO SM TRX, 8V In, 2D IO, 2A IO, Card, 3-Slot
N3758RA-2A2D-M	FO SM TRX, 8V Out, 2D IO, 2A IO, Module,
	12VDC/24VAC
N3758RA-2A2D-R	FO SM TRX, 8V Out, 2D IO, 2A IO, Card, 3-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
C'arte arete	17	1310/1550	25
Single-mode	*Higher output lasers a	vailable for range ov	er 25km

Note:

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

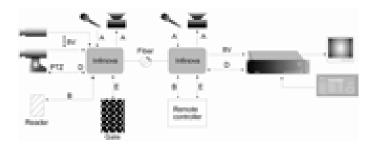
N3922-24A-1: 24 VAC (120 VAC), 50 VA N3922-24A-2: 24 VAC (230 VAC), 50 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 3 slot modules and 3 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3559 & N3759 Series







8V> + 4D<>

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Factory default setting RS-232
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- LED indicators for monitoring of system operating status
- On-board jumper activation of 120 Ohm termination resistor
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3559 and N3759 series provides the ability to transmit 8 digitally encoded video channels with 4-ch multi-protocol data over one optic fiber. Data format supports RS-232 (factory default setting) or DIP selectable RS-422 / RS-485 / Manchester / Biphase.

Modular in design, the N3559 and N3759 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-3S and can be placed on a desktop or mounted to a wall.

Video Channel Video Input Impedance Video Voltage Bandwidth Differential Gain Differential Phase Signal-to-Noise Ratio PCM Encoding Optical Performance Multi-mode Output Power Receiver Sensitivity Wavelength Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity Vavelength Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity Vavelength Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength Connector FC Data Performance Data Rate DC to 115.2kbps
Video Voltage Bandwidth Differential Gain Differential Phase Signal-to-Noise Ratio PCM Encoding Optical Performance Multi-mode Output Power Receiver Sensitivity Wavelength Connector Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Receiver Sensitivity Toldan (typical) Receiver Sensitivity -5dBm (typical) Receiver Sensitivity Toldan (typical) Toldan (typical) Toldan (typical) Toldan (typical) Toldan (typical) Toldan (typical)
Bandwidth 5Hz~6.5 MHz Differential Gain 1% (typical) Differential Phase 1° (typical) Signal-to-Noise Ratio 67dB (weighted) PCM Encoding 10 bits Optical Performance Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Differential Gain 1% (typical) Differential Phase 1° (typical) Signal-to-Noise Ratio 67dB (weighted) PCM Encoding 10 bits Optical Performance Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Differential Phase 1° (typical) Signal-to-Noise Ratio 67dB (weighted) PCM Encoding 10 bits Optical Performance Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Signal-to-Noise Ratio 67dB (weighted) PCM Encoding 10 bits Optical Performance Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
PCM Encoding 10 bits Optical Performance Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Optical Performance Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Multi-mode Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Output Power -12dBm (typical) Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Receiver Sensitivity -19dBm (typical) Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Wavelength 1310/1310nm Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Connector ST Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Single-mode Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Output Power -5dBm (typical) Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Receiver Sensitivity -22dBm (typical) Wavelength 1310/1550nm Connector FC Data Performance
Wavelength 1310/1550nm Connector FC Data Performance
Connector FC Data Performance
Data Performance
Data Rate DC to 115.2kbps
Bit Error Rate <10 ⁻⁹
LED Indicators
Power On Red
Optical Link Loss Red
Video Input/Output Presence Green
Data Input/Output Presence Green
General Parameters
Operating Temperature -40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature -40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity 0 ~ 95% RH (non-condensing)
Card Dimensions 2.40" x 5.08" x 6.73"
(W ×H ×D) (61mm x 129mm x 171mm)
Module Dimensions 2.56" x 6.22" x 7.87"
$(W \times H \times D) \qquad (65mm \times 158mm \times 200mm)$
Power Consumption 6.6W
Card Weight 1.67lbs. (0.76kg)
Module Weight 3.02lbs. (1.37kg)
Mean Time Between >100,000 Hrs
Certifications and Approval

FCC¹, CE/EMC²: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL, cUL, **Product Certifications** ISO 9001:2008

Certificate No.: 1 BCT09HC-717E; 2 BCT09HC-716E

System diagram



Ordering information

N3559TA-2D2B-M	FO MM TRX, 8V In, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3559RA-2D2B-M	FO MM TRX, 8V Out, 2D IO +2RS-232 IO, Module, 12VDC/24VAC
N3559TA-4D-M	FO MM TRX, 8V In, 4D IO, Module, 12VDC/24VAC
N3559RA-4D-M	FO MM TRX, 8V Out, 4D IO, Module, 12VDC/24VAC
N3559TA-4B-M	FO MM TRX, 8V In, 4 RS-232 IO, Module, 12VDC/24VAC
N3559RA-4B-M	FO MM TRX, 8V Out, 4 RS-232 IO, Module, 12VDC/24VAC
N3759TA-2D2B-M	FO SM TRX, 8V In, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3759RA-2D2B-M	FO SM TRX, 8V Out, 2D IO +2 RS-232 IO, Module, 12VDC/24VAC
N3759TA-4D-M	FO SM TRX, 8V In, 4D IO, Module, 12VDC/24VAC
N3759RA-4D-M	FO SM TRX, 8V Out, 4D IO, Module, 12VDC/24VAC
N3759TA-4B-M	FO SM TRX, 8V In, 4 RS-232 IO, Module, 12VDC/24VAC
N3759RA-4B-M	FO SM TRX, 8V Out, 4 RS-232 IO, Module, 12VDC/24VAC

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
6: 1	17	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- 1. For Card unit, replace "-M" with "-R" in the model number
- 2. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- 3. Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 4. Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

N3922-24A-1: 24 VAC (120 VAC), 50 VA N3922-24A-2: 24 VAC (230 VAC), 50 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 3 slot modules and 3 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

N3571 & N3771 Series



Bi-directional RS-232 and Multi-protocol DIP Selectable Data



D <> + B <>

- Surface mount technology
- On-panel DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-panel DIP activation of 120 Ohm termination resistor
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3571 and N3771 series provides the ability to transmit and receive one RS-232 and one DIP selectable data (RS-422, RS-485, Manchester or Biphase) over one or two fibers.

Modular in design, the N3571 and N3771 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack chassis. Stand-alone module used the N3910-1S and can be placed on a desktop or mounted to a wall.

Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Data Input/Output	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0~95% RH (non-condensing)
Card Dimensions (W ×H ×D)	0.79" x 5.08" x 6.57" (20mm x 129mm x 167mm)
Module Dimensions	0.94" x 6.22" x 7.76"
(W ×H × D)	(24mm x 158mm x 197mm)
Power Consumption	1.9W
Card Weight	0.82lbs. (0.37kg)
Module Weight	1.57lbs. (0.71kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appro	
	N3571: FCC ¹ , CE/EMC ² : EN 55022,

N3571: FCC¹, CE/EMC²: EN 55022, EN 55024, ISO 9001:2008 N3771: FCC³, CE/EMC⁴: EN 55022, EN 55024, ISO 9001:2008

Certificate No.: ¹ RSZ07070303; ² RSZ07070303-1, RSZ07070303-2 ³ RSZ08041602; ⁴ RSZ08041602-1, RSZ08041602-2

Ordering information

N3571XA-1D1B-M	FO MM TRX, 1D IO +1 RS-232, Module, 12VDC/24VAC
N3571XA-1D1B-R	FO MM TRX, 1D IO +1 RS-232, Card, 1-Slot
N3571XB-1D1B-M	FO MM TRX, 1D IO +1 RS-232, Module,
	12VDC/24VAC
N3571XB-1D1B-R	FO MM TRX, 1D IO +1 RS-232, Card, 1-Slot
N3771XA-1D1B-M	FO SM TRX, 1D IO+1 RS-232, Module,
	12VDC/24VAC
N3771XA-1D1B-R	FO SM TRX, 1D IO+1 RS-232, Card, 1-Slot
N3771XB-1D1B-M	FO SM TRX, 1D IO+1 RS-232, Module,
	12VDC/24VAC
N3771XB-1D1B-R	FO SM TRX, 1D IO+1 RS-232, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
Cincola manda	20	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3572 & N3772 Series







4D<>

- Surface mount technology
- Factory default setting RS-232 available
- On-board jumper switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-board jumpers activation of 120 Ohm termination resistors
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3572 and N3772 series provides the ability to transmit and receive up to 4-ch multi-protocol data over one optic fiber. Data format supports factory default setting RS-232 and DIP selectable RS-422, RS-485, Manchester or Biphase.

Modular in design, the N3572 and N3772 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550nm
Connector	FC
Data Performance	
Data Rate	DC to 115.2kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link Loss	Red
Data Input/Output	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions (W ×H ×D)	0.79" x 5.08" x 6.57" (20mm x 129mm x 167mm)
Module Dimensions	0.94" x 6.22" x 7.76"
(W ×H × D)	(24mm x 158mm x 197mm)
Power Consumption	3.5W
Card Weight	0.86lbs. (0.39kg)
Module Weight	1.61lbs. (0.73kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appro	
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, ISO 9001:2008

Certificate No.: 1 RSZ08041602; 2 RSZ08041602-1, RSZ08041602-2

System diagram



Ordering information

N3572XA-2D2B-M	FO MM TRX, 2D IO +2 RS-232 IO, Module,
	12VDC/24VAC
N3572XA-4D-M	FO MM TRX, 4D IO, Module, 12VDC/24VAC
N3572XA-4B-M	FO MM TRX, 4 RS-232 IO, Module, 12VDC/24VAC
N3572XB-2D2B-M	FO MM TRX, 2D IO +2 RS-232 IO, Module,
	12VDC/24VAC
N3572XB-4D-M	FO MM TRX, 4 D IO, Module, 12VDC/24VAC
N3572XB-4B-M	FO MM TRX, 4 RS-232 IO, Module, 12VDC/24VAC
N3772XA-2D2B-M	FO SM TRX, 2D IO +2 RS-232 IO, Module,
	12VDC/24VAC
N3772XA-4D-M	FO SM TRX, 4D IO, Module, 12VDC/24VAC
N3772XA-4B-M	FO SM TRX, 4 RS-232 IO, Module, 12VDC/24VAC
N3772XB-2D2B-M	FO SM TRX, 2D IO +2 RS-232 IO, Module,
	12VDC/24VAC
N3772XB-4D-M	FO SM TRX, 4 D IO, Module, 12VDC/24VAC
N3772XB-4B-M	FO SM TRX, 4 RS-232 IO, Module, 12VDC/24VAC

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
C'arla arada	20	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note:

- 1. For Card unit, replace "-M" with "-R" in the model number
- 2. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 4. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- $\bullet~$ 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

N3574 & N3774 Series Duplex Audio Transmission System







- 24-bit PCM audio encoding
- Optional audio input resistance of 600Ω
 balance/unbalance and 10k Ohm/47k Ohm unbalance
- Surface Mounting Technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

N3574 and N3774 series provides the ability to transmit and receive one bidirectional audio over one optic fiber.

Modular in design, the N3574 and N3774 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

Audio Performance	
Audio Format	600 Ohm (balanced/unbalanced) (Jumper Selectable); 10k Ohm /47k Ohm (unbalanced)
Audio Level	-6 ~ +6dBm
Frequency Response	10 Hz ~ 20k Hz
Signal-to-Noise Ratio	75dB (weighted)
Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310/1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550nm
Connector	FC
LED Indicators	
Power On	Red
Optical Link Loss	Red
Audio Input/Output	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions (W ×H ×D)	0.79" x 5.08" x 6.57" (20mm x 129mm x 167mm)
Module Dimensions	0.94" x 6.22" x 7.76"
(W ×H × D)	(24mm x 158mm x 197mm)
Power Consumption	3.5W
Card Weight	0.86lbs. (0.39kg)
Module Weight Mean Time Between	1.61lbs. (0.73kg)
Failures	>100,000 Hrs
Certifications and Appro	oval

Certificate No.: 1 RSZ08041602; 2 RSZ08041602-1, RSZ08041602-2

Product Certifications

Ordering information

N3574XA-1A-M	FO MM TRX, 1A IO, Module, 12VDC/24VAC
N3574XA-1A-R	FO MM TRX, 1A IO, Card, 1-slot
N3574XB-1A-M	FO MM TRX, 1A IO, Module, 12VDC/24VAC
N3574XB-1A-R	FO MM TRX, 1A IO, Card, 1-slot
N3774XA-1A-M	FO SM TRX, 1A IO, Module, 12VDC/24VAC
N3774XA-1A-R	FO SM TRX, 1A IO, Card, 1-slot
N3774XB-1A-M	FO SM TRX, 1A IO, Module, 12VDC/24VAC
N3774XB-1A-R	FO SM TRX, 1A IO, Card, 1-slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
C'arla arada	20	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note

- Distance is limited to fiber loss, splices, chromatic dispersion and handwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot module and 1 slot card unit
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System diagram



FCC¹, CE/EMC²: EN 55022, EN 55024,

ISO 9001:2008

N3576 & N3776 Series Aiphone® Audio Intercom System





Intercom<>

- Uncompressed, distortion-free, and transparent transmission for master/slave intercom and call/response signals
- Compatible with LEF/NEM/LEM audio and data control protocols
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-board jumper activation of 120 Ohm termination resistor
- Surface mount technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

N3576 and N3776 series provides the ability to transmit and receive four or eight Aiphone® audio intercoms with four multi-protocol data over one optic fiber. Data format supports DIP selectable data (RS-422, RS-485, Manchester or Biphase).

Modular in design, the N3576 and N3776 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-2S or N3910-3S and can be placed on a desktop or mounted to a wall.

Audio Performance

Physical Port Industrial terminal block

Audio In/Out Level Compatible with Aiphone® intercom audio frequency

Interface Complier PCM compiling

Interface Intercom master/slave transceiver

Type Aiphone® intercom

Optical Performance

Multi-mode

Output Power -15dBm (typical)
Receiver Sensitivity -27dBm (typical)
Wavelength 1310/1310nm
Connector ST

Single-mode

Output Power -10dBm (typical)
Receiver Sensitivity -30dBm (typical)
Wavelength 1310/1550nm

Connector F

Data Performance

Data Rate DC to 115.2kbps

Bit Error Rate <10

LED Indicators

Power On Red
Optical Link Loss Red
Optical Link Presence Green
Audio Intercom Green

General Parameters

Operating Temperature $-40^{\circ}\text{F} \sim 167^{\circ}\text{F} (-40^{\circ}\text{C} \sim 74^{\circ}\text{C})$ Storage Temperature $-40^{\circ}\text{F} \sim 185^{\circ}\text{F} (-40^{\circ}\text{C} \sim 85^{\circ}\text{C})$ Operating Humidity 0° 95% RH (non-condensing)

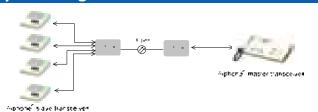
Maximum Consumption 8W (8-ch) Weight (2-slot, module) 2.27lbs. (1.03kg) Weight (2-slot, card) 1.21lbs. (0.55kg) Weight (3-slot, module) 2.95lbs. (1.34kg) Weight (3-slot, card) 1.61lbs. (0.73kg) Dimension (2-slot, 6.22" × 1.73" × 7.87" module) (H×W×D) (158mm × 44mm × 200mm) Dimension 5.08" × 1.58" × 6.73" (2-slot, card) (H×W×D) (129mm × 40mm × 171mm) 6.22" × 2.56" × 7.87" Dimension (3-slot, module) (H×W×D) (158mm × 65mm × 200mm) 5.08" × 2.40" × 6.73" Dimension (3-slot, card) (H×W×D) (129mm × 61mm × 171mm)

Mean Time Between >100,000 Hrs

Certifications and Approval

Product Certifications CE, FCC, ISO 9001:2008

System diagram



Applications

- Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Ordering information

N3576XM-4AI-4D-L-M	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 4AI, 4D IO, Module, 12VDC/24VAC
N3576XM-4AI-4D-L-R	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 4AI, 4D IO, Card, 2-Slot
N3576XS-4AI-4D-L-M	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 4AI, 4D IO, Module, 12VDC/24VAC
N3576XS-4AI-4D-L-R	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 4AI, 4D IO, Card, 2-Slot
N3576XM-8AI-4D-L-M	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 8AI, 4D IO, Module, 12VDC/24VAC
N3576XM-8AI-4D-L-R	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 8AI, 4D IO, Card, 3-Slot
N3576XS-8AI-4D-L-M	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 8AI, 4D IO, Module, 12VDC/24VAC
N3576XS-8AI-4D-L-R	FO MM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 8AI, 4D IO, Card, 3-Slot
N3776XM-4AI-4D-L-M	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 4AI, 4D IO, Module, 12VDC/24VAC
N3776XM-4AI-4D-L-R	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 4AI, 4D IO, Card, 2-Slot
N3776XS-4AI-4D-L-M	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 4AI, 4D IO, Module, 12VDC/24VAC
N3776XS-4AI-4D-L-R	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 4AI, 4D IO, Card, 2-Slot
N3776XM-8AI-4D-L-M	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 8AI, 4D IO, Module, 12VDC/24VAC
N3776XM-8AI-4D-L-R	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Master, 8AI, 4D IO, Card, 3-Slot
N3776XS-8AI-4D-L-M	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 8AI, 4D IO, Module, 12VDC/24VAC
N3776XS-8AI-4D-L-R	FO SM TRX for Aiphone® LEF/LEM Intercoms,
	Slave, 8AI, 4D IO, Card, 3-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
Single-mode	20	1310/1550	25
	*Higher output lasers available for range over 25km		

Note:

- For N35/776, the suffix "-L" represents the system is compatible with LEF/LEM intercom. For NEM intercoms, please replace "-L" with "-N" in the product model.
- 2. Distance is limited to fiber loss, splices, chromatic dispersion and handwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor.
- 4. Range estimates for multimode are based on 500MHz/km fiber.

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA (for 2 slots)
N3921-12D-2: 12 VDC (230 VAC), 10 VA (for 2 slots)
N3921-24A-1: 24 VAC (120 VAC), 20 VA (for 2 slots)
N3921-24A-2: 24 VAC (230 VAC), 20 VA (for 2 slots)
N3922-24A-1: 24 VAC (120 VAC), 50 VA (for 3 slots)
N3922-24A-2: 24 VAC (230 VAC), 50 VA (for 3 slots)

Configurations

- Compact 2 slot modules and 2 slot card units
- Compact 3 slot modules and 3 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

N3579 & N3779 Series Eight Contact Closures Transmission





8 C.C.>

- Surface mount technology
- Compatible with contact closure
- LED indicators for monitoring of system operating status
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

N3579 and N3779 series provide the ability to transmit 8 contact closures over one optic fiber.

Modular in design, the N3579 and N3779 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

Contact Closure	
Number of Channels	8
Response Time	4ms (Active low)
Contact Current	1 A @ 30 VDC; 0.5 A @ 125 VAC
Optical Performance	
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310nm
Connector	ST
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310nm
Connector	FC
LED Indicators	
Power On	Red
Optical Link	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	0.79" x 5.08" x 6.57"
(W x H x D)	(20mm x 129mm x 167mm)
Module Dimensions (W x H x D)	0.94" x 6.22" x 7.76" (24mm x 158mm x 197mm)
Power Consumption	2.0W
Card Weight	0.82lbs. (0.37kg)
Module Weight	1.57lbs. (0.71kg)
Mean Time Between	, ,
Failures	>100,000 Hrs
Certifications and Approval	
Product Certifications	CE, FCC, ISO 9001:2008

Ordering information

N3579TA-8C-M	FO MM TX 8 Contact Closure In, Module,
	12VDC/24VAC
N3579TA-8C-R	FO MM TX 8 Contact Closure In, Card, 1-Slot
N3579RA-8C-M	FO MM RX 8 Contact Closure Out, Module,
	12VDC/24VAC
N3579RA-8C-R	FO MM RX 8 Contact Closure Out, Card, 1-Slot
N3779TA-8C-M	FO SM TX 8 Contact Closure In, Module,
	12VDC/24VAC
N3779TA-8C-R	FO SM TX 8 Contact Closure In, Card, 1-Slot
N3779RA-8C-M	FO SM RX 8 Contact Closure Out, Module,
	12VDC/24VAC
N3779RA-8C-R	FO SM RX 8 Contact Closure Out, Card, 1-Slot

Accessories

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Power	Su	սս	ıγ

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system
- Alarm system

Configurations

- Compact 1 slot module and 1 slot card unit
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3784 Series 10/100M Auto Sensing Ethernet





Ethernet<>

- Data rates 10/100 Mbps auto sensing
- Communication Selectable Full / Half Duplex
- Interface Auto MDI / MDI-X
- Non-blocking wire-speed reception and transmission, transmission without head-of-line blocking
- Support IEEE 802.3/802.3U auto-negotiation
- Support IEEE 802.3x full-duplex flow control and back-pressure half-duplex flow control
- Support feedback and diagnosis functions
- Detect the VLAN ARP for data packet
- Detection and correction of port polarity at the physical laver
- Compact structure for easy installation
- Hot swapping design
- With status indication for power, Ethernet and optical link

N3784 series provides the ability to transmit and receive up to 4 channels, 4 ports, 10/100Mbps auto sensing Ethernet signal over one fiber.

Modular in design, N3784 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with the N3910-1S and can be placed on a desktop or mounted to a wall.

Ethernet	
IEEE802.3 compliant	
Data Rate	10/100Mbps
Ports	RJ-45 connector, 4 ports, shielded
Optical Performance	
Fiber Type	Single-mode
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550 nm
Connector	FC
LED Indicators	
Power On	Red
Optical Link	Red
Ethernet Signal Active	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Card Dimensions	0.79" x 5.08" x 6.57"
(W x H x D) Module Dimensions	(20mm x 129mm x 167mm) 0.94" x 6.22" x 7.76"
(W x H x D)	(24mm x 158mm x 197mm)
Power Consumption	3.0W
Card Weight	0.84lbs. (0.38kg)
Module Weight	1.59lbs. (0.72kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appr	
Product Certifications	FCC ¹ , CE/EMC ² : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL, cUL,

ISO 9001:2008

Certificate No.: 1 BCT09HC-819E; 2 BCT09HC-818E

Ordering information

N3784XA-4FE-M	FO SM Ethernet 4-Port Transceiver
	10/100 BASE-T, Module, 12VDC/24VAC

N3784XA-4FE-R FO SM Ethernet 4-Port Transceiver

10/100 BASE-T, Card, 1-Slot

N3784XB-4FE-M FO SM Ethernet 4-Port Transceiver

10/100 BASE-T, Module, 12VDC/24VAC

N3784XB-4FE-R FO SM Ethernet 4-Port Transceiver

10/100 BASE-T, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
C'arla arada	20	1310/1550	25
Single-mode	*Higher output lasers available for range over 25km		

Note

- Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor

Accessories

Power Supply

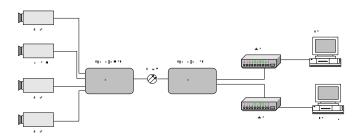
N3921-12D-1:	12 VDC (120 VAC), 10 VA
N3921-12D-2:	12 VDC (230 VAC), 10 VA
N3921-24A-1:	24 VAC (120 VAC), 20 VA
N3921-24A-2:	24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3785 Series







Ethernet<> + D<>

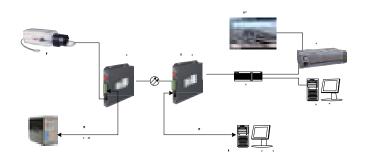
- 10/100M self adaptive Ethernet
- Non-blocking wire-speed reception and transmission, transmission without head-of-line blocking
- Support IEEE 802.3/802.3U auto-negotiation
- Support IEEE 802.3x for full duplex flow control and back-pressure for half duplex flow control
- Support feedback and diagnosis functions
- Detect the VLAN ARP for data packet
- Detection and correction of port polarity at the physical layer
- Support data formats of RS422, RS485 and RS232
- Lightning-protection function available at the data interfaces
- Compact structure for easy installation
- Hot swapping design
- With status indication for power, Ethernet, data and optical link

N3785 series provides the ability to transmit the digitally encoded signal of 1-ch 10/100Mbps self-adaptive shared Ethernet and 2-ch RS485 or RS232 plus 1-ch duplex RS422 data over one optic fiber.

The transceiver has built-in switch function. In addition, two RJ45 Ethernet ports are available on the transmitter and receiver.

Ethernet	
Connector	Magnetically shielded RJ45 connector
Ports	2
Operation Mode	10/100Mbps, self-adaptive
Optical Performance	
Fiber Type	Single-mode
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550 nm
Connector	FC
Data Performance	
Connector	Industrial terminal block
Baud Rate	0~115.2 kbps
Bit Error Rate	<10 ⁻⁹
LED Indicators	
Power On	Red
Optical Link	Red
Data Input/Output	Green
Ethernet Signal Active	Green
General Parameters	
Operating Temperature	-40°F ~ +165.2°F (-40°C ~ +74°C)
Storage Temperature	-40°F ~ +185°F (-40°C ~ +85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Power Consumption	3.0 W
Card Dimensions (W ×H ×D) Module Dimensions	0.79" x 5.08" x 6.58" (20mm x 129mm x 167mm) 0.94" x 6.22" x 7.56"
(W ×H × D) Mean Time Between Failures	(24mm x 158mm x 197mm) >100,000 Hrs
Certifications and Approval	
Product Certifications	CE, FCC, ISO 9001:2008

System diagram



Ordering information

N3785XA-M	FO SM, digital, Ethernet Transceiver
	10/100BASE-T, 2 RJ45, 2 Half duplex RS485 IO+1
	RS-422 IO, Module, 12VDC/24VAC
N3785XA-R	FO SM, digital, Ethernet Transceiver
	10/100BASE-T, 2 RJ45, 2 Half duplex RS485 IO+1
	RS-422 IO, Card, 1-Slot
N3785XB-M	FO SM, digital, Ethernet Transceiver
	10/100BASE-T, 2 RJ45, 2 Half duplex RS485 IO+1
	RS-422 IO, Module, 12VDC/24VAC

N3785XB-R FO SM, digital, Ethernet Transceiver 10/100BASE-T, 2 RJ45, 2 Half duplex RS485 IO+1

RS-422 IO, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)	
6. 1	20	1310/1550	25	
Single-mode	*Higher output lasers available for range over 25km			

Note

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth.
- Range estimates are based on 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm, and include a 3 dB safety factor.

Accessories

Power Supply

N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- · Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- $\bullet~$ 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

N3586 & N3786 Series







POTS TEL<>

- Digitally encoded modulation
- Surface mount technology
- POTS or PBX telephone compatible
- Supports 90 V and touch-tone
- RJ-11 jack connector
- 4-pin terminal block data connector
- On-board DIP selection of RS-422, RS-485 (2 or 4 wires),
 Manchester/Biphase
- Jumper activation of 120 Ohm termination resistor
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 24 VAC power supply
- No user adjustments required

N3586 and N3786 series provides the ability to transmit and receive a 1-ch POTS or PBX telephone signal with one DIP selectable data (RS-422/RS-485/Manchester/Biphase) over one fiber.

Modular in design, the N3586 and N3786 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with the N3910-1S and can be placed on a desktop or mounted to a wall.

Audio Performance	
Ringer Voltage	75VRMS typical, 90VRMS maximum
Ringer Detection Voltage	35V
Ringer Frequency	17~60Hz
Ringer Holdup Time	200ms
Feedback Loss	40dB typical, 30dB minimum
Free Channel Signal Noise	75dB (weighted)
Balanced	70dB typical, 60dB minimum
Data Performance	
Data Rate	DC to 115.2 kbps
Bit Error Rate	<10 ⁻⁹
Optical Performance	
Single-mode	
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550 nm
Connector	FC
Multi-mode	
Output Power	-15dBm (typical)
Receiver Sensitivity	-27dBm (typical)
Wavelength	1310/1310 nm
Connector	ST
LED Indicators	
Power On	Red
Optical Link Loss	Red
Call Incoming	Green
Call Received	Green
Data Input/Output	Green
General Parameters	
Operating Temperature	-40°F ~ 167°F (-40°C ~ 74°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0~95% RH (non-condensing)
Card Dimensions	0.79" x 5.08" x 6.57"
(W x H x D)	(20mm x 129mm x 167mm) 0.94" x 6.22" x 7.76"
Module Dimensions (W x H x D)	0.94 x 6.22 x 7.76 (24mm x 158mm x 197mm)
Power Consumption	< 5.5W
Card Weight	0.86lbs. (0.39kg)
Module Weight	1.63lbs. (0.74kg)
Mean Time Between Failures	>100,000 Hrs
Certifications and Appro	oval
Duradicat Cantification	FCC ¹ , CE/EMC ² : EN 55022, EN 55024,

Certificate No.: 1 BCT09HC-715E; 2 BCT09HC-714E

Product Certifications

Ordering information

N3586XA-M	FO MM POTS Line Transceiver, Module, 24VAC
N3586XA-R	FO MM POTS Line Transceiver, Card, 1-Slot
N3586XB-M	FO MM POTS Line Transceiver, Module, 24VAC
N3586XB-R	FO MM POTS Line Transceiver, Card, 1-Slot
N3786XA-M	FO SM POTS Line Transceiver, Module, 24VAC
N3786XA-R	FO SM POTS Line Transceiver, Card, 1-Slot
N3786XB-M	FO SM POTS Line Transceiver, Module, 24VAC
N3786XB-R	FO SM POTS Line Transceiver, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
Single-mode	20	1310/1550	25
	*Higher output lasers available for range over 25km		

Note:

- 1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor
- 3. Range estimates for multimode are based on 500MHz/km fiber

Accessories

Power Supply

N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

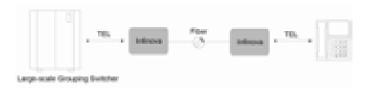
Applications

- · Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 1 slot modules and 1 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- $\bullet~$ 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System diagram



EN 61000-3-2, EN 61000-3-3, UL, cUL,

ISO 9001:2008

N3787 Series 10/100/1000M Ethernet Transmission System





Ethernet<>

- Storage and forward mode to match devices at different speeds
- Non-blocking wire-speed reception and transmission, transmission without head-of-line blocking
- Support feedback and diagnosis functions
- Detection and correction of port polarity at the physical layer
- Support IEEE802.1Q protocol
- Support 1000M optical port
- The Ethernet optical ports support full/half duplex (self-adaptive)
- Support IEEE 802.3x for full duplex flow control and back-pressure for half duplex flow control
- Support MAC address self-learning and update
- Support 802.1P protocol and QoS mechanism
- Compact structure for easy installation
- Hot swapping design
- With status indication for power, Ethernet and optical link

With prevalence of 1000M Ethernet and increasing transmission demand of large-capacity data, optic fiber now becomes the perfect choice for remote transmission of 1000M Ethernet signals. To meet clients' higher requirements, Infinova recently released the cost-effective N3787 series 10/100/1000M Ethernet point-to-point fiber optic transmission system.

N3787 series single mode transmission system provides the ability to transmit 1000M Ethernet data over one fiber in full duplex and point-to-point mode. The Ethernet signal on two ends are 10/100/1000M self-adaptive. There are two or eight RJ45 Ethernet ports on the transmitter and receiver, easy to connect with different Ethernet devices.

Ethernet	
Connector	Magnetically shielded RJ45 connector
Ports	2 or 8
Operation Mode	10/100M or 10M/100M/1000M, self-adaptive
Optical Performance	
Fiber Type	Single-mode
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550nm
Transmission Distance	20km, 40km and 80km optional
Speed of Forward / Reverse Transmission	1.25G/1.25G
Connector	FC
LED Indicators	
Power On	Red
Optical Link	Red
Ethernet Signal Active	Green
General Parameters	
Operating Temperature	-40°F ~ +165.2°F (-40°C ~ +74°C)
Storage Temperature	-40°F ~ +185°F (-40°C ~ +85°C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Mechanical Parameters	5
Dimension (2-slot	1.73" x 6.22" x 7.56"
module) (W ×H ×D)	(44mm x 158mm x 197mm)
Dimension (2-slots card)	1.58" x 5.08" x 6.58"
(W ×H ×D)	(40mm x 129mm x 167mm)
Dimension (1-slot	0.95" x 6.22" x 7.56"
module) (W ×H ×D)	(24mm x 158mm x 197mm)
Dimension (1-slot card)	0.79" x 5.08" x 6.58"
(W ×H ×D)	(20mm x 129mm x 167mm)
Stability	
Mean Time Between Failures	>100,000 Hrs
Certifications and Appr	oval
Product Certifications	CE, FCC, ISO 9001:2008

Ordering information

N3787XA-GE-20-M FO SM, digital, Ethernet 2-Port Transceiver

10/100/1000BASE-T, Module, 12VDC/24VAC,

20km

N3787XB-GE-20-M FO SM, digital, Ethernet 2-Port Transceiver

10/100/1000BASE-T, Module, 12VDC/24VAC,

20km

N3787XA-8FE-20-M FO SM, digital, Ethernet 8-Port Transceiver

10/100BASE-T, Module, 12VDC/24VAC, 20km

(work together with N3787XB-GE)

Note:

- 1. For Card unit, replace "-M" with "-R" in the model number.
- 2. "-20" in the model number indicates the transmission distance. For 40 or 80 km, replace "-20" with "-40" or "-80".
- 3. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth.
- Range estimates are based on 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm, and include a 3 dB safety factor.

Accessories

Power Supply

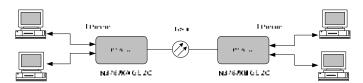
N3921-12D-1: 12 VDC (120 VAC), 10 VA N3921-12D-2: 12 VDC (230 VAC), 10 VA N3921-24A-1: 24 VAC (120 VAC), 20 VA N3921-24A-2: 24 VAC (230 VAC), 20 VA

Applications

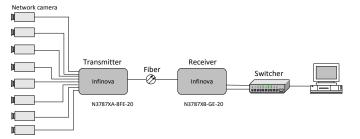
- · Smart buildings
- · Security and surveillance
- Intelligent transportation system
- · Highway surveillance system

Configurations

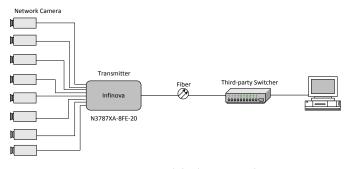
- Compact 1 slot modules and 1 slot card units
- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply



N3787XA/XB-GE-20



N3787XA-8FE-20 and N3787XB-GE-20



N3787XA-8FE-20 and third-party switcher

N3910 & N3920 Series Chassis and Power Supply









2-Slot Chassis N3910-2S



3-Slot Chassis N3910-3S



4-Slot Chassis N3910-4S



6-Slot Chassis N3910-6W1

- Dense structure for easy installation
- Immune to EMI and RFI
- Hot swappable rack-mount cards
- Accommodate all Infinova fiber optic transceivers

N3910 series chassis includes 1-slot, 2-slot, 3-slot, 4-slot, 6-slot, 15-slot and 18-slot chassis. The units are a result of unique engineering design and feature aluminum extrusions. They provide easy conversion and expansion from module to rack-mount equipment at no cost to the end user.

General Parameters Operating Temperature -40°F ~ +165°F (-40°C ~ +74°C) Storage Temperature -40°F ~ +185°F (-40°C ~ +85°C) Operating Humidity 0 ~ 95% RH (non-condensing) Certifications and Approval Product Certifications CE/EMC¹: EN 55022, EN 55024, UL 60950, ISO 9001:2008

Certificate No.: 1 CTE05110025

Components

 $\begin{array}{lll} \text{N3910-18S:} & \text{FO Card Chassis, 18-Slot, 19"} \times 3\text{U Sub-Rack, w/o p.s.} \\ \text{N3910-15R:} & \text{FO Card Chassis, 15-Slot, 19"} \times 3\text{U Sub-Rack, w/o dual p.s.} \\ \text{N3910-6W:} & \text{FO Card Chassis, 6-Slot, 9"} \times 3\text{U Sub-Rack, w/o p.s.} \\ \end{array}$

Accessories

N3910-000: Fan Assembly Unit, 19" × 1U, 120VAC N3910X-000: Fan Assembly Unit, 19" × 1U, 230VAC

NBP1: FO 1-Slot Blank Panel NBP2: FO 2-Slot Blank Panel NBP4: FO 4-Slot Blank Panel

Applications

- · Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Ordering information

Chassis	Part	Description	Dimensions
Cilassis	Number	Description	(H x W x D)
		Available with the	
1-Slot	N3910-1S	Power Supply of	6.22"×0.94"×7.32"
1-3100	N3910-13	12VDC, 10VA or	(158mm×24mm×186mm)
		24 VAC, 20VA	
		Available with the	
2-Slot	N3910-2S	Power Supply of	6.22"×1.73"×7.32"
2-3101	N3910-23	12VDC, 10VA or	(158mm×44mm×186mm)
		24 VAC, 20VA	
		Available with the	
3-Slot	N3910-3S	Power Supply of	6.22"×2.56"×7.32"
3-3101	N3910-33	12VDC, 18VA or	(158mm×65mm×186mm)
		24 VAC, 36VA	
		Available with the	
4-Slot	N3910-4S	Power Supply of	6.22"×3.35"×7.32"
4-3101		12VDC, 18VA or	(158mm×85mm×186mm)
		24 VAC, 36VA	
		Wall mount	5.23"×9.41"×9.53"
6-Slot	N3910-6W1	chassis, with 100W	(133mm×239mm
		Power Supply	×242mm)



19" x 3U Sub-Rack







Power Supply

N3920 series are 100W or 250W inner power supplies with 120/230VAC input which are embedded into the N3910 chassis. This series will power all Infinova card unit transmitter, receiver and transceiver for video, audio and data.

N3921 and N3922 series are transformers that power all stand-alone fiber optic units. N3921 series are available in 4 modules: 120VAC or 230VAC inputs to 12VDC or 24VAC outputs.

Components

N3920-100W Power Supply, 100W, 120VAC/230VAC

(1X for N3910-18S & N3910-4W, 2X for

N3910-15R)

N3920-250W Power Supply, 250W, 120VAC/230VAC

(1X for N3910-18S, 2X for N3910-15R)

Compliance

N3920-100W UL 60950, FCC, CE and cUL

N3920-250W FCC, CE

ISO 9001:2008

N3921 CE, UL N3922 CE, UL

Ordering information

Sub-Rack	Part Number	Description	Dimensions (H x W x D)
	N3910-18S	Without Power Supply	5.24"×19"×8.35" (133mm×483mm×212mm)
18-Slot Sub-Rack	N3910-18S1	With 100W Power Supply	5.24"×19"×9.53" (133mm×483mm×242mm)
	N3910-18S2	With 250W Power Supply	5.24"×19"×13.39" (133mm×483mm×340mm)
	N3910-15R	Without Power Supply	5.24"×19"×8.35" (133mm×483mm×212mm)
15-Slot Sub-Rack	N3910-15R1	With Redundant (2) 100W Power Supplies	5.24"×19"×9.53" (133mm×483mm×242mm)
	N3910-15R2	With Redundant (2) 250W Power Supplies	5.24"×19"×13.39" (133mm×483mm×340mm)

Power	Part	Description	Dimensions
Supply	Number		(H x W x D)
	N3920-100W	100W Switching Power Supply for N3910-18S and N3910-15R Sub-Rack (120/230VAC) (+9V/6A, -9V/4A, +5V/1.5A)	5.04"×2.40"×7.24" (128mm×61mm×184mm)
	N3920-250W	250W Switching Power Supply for N3910-18S Sub-Rack (120/230VAC) (+9V/21A, -9V/6A, +5V/1.5A)	5.04"×2.40"×9.88" (128mm×61mm×251mm)
Power Supply	N3921-12D-1	12VDC Plug-in Power Supply 10VA (120V), for 1 or 2 Slots	3.58"×2.72"×2.40" (91mm×69mm×61mm)
for Subrack	N3921-24A-1	24VAC Plug-in Power Supply 20VA with LED (120V), for 1 or 2 Slots	3.58"×2.72"×2.40" (91mm×69mm×61mm)
	N3921-12D-2	12VDC Power Supply 10VA (230V), for 1 or 2 Slots	3.31"×2.24"×1.97" (84mm×57mm×50mm)
	N3921-24A-2	24VAC Power Supply 20VA (230V), for 1 or 2 Slots	3.27"×2.20"×1.93" (83mm×56mm×49mm)
	N3922-24A-1	24VAC Plug-in Power Supply 50VA (120V), for 3 or 4 Slots	3.25"×2.56"×2.38" (83mm×65mm×60mm)
	N3922-24A-2	24VAC Power Supply 50VA (230V), for 3 or 4 Slots	4.53"×2.95"×2.56" (115mm×75mm×65mm)

N3952 Series Contact Closure Converter





4 C.C<> to D<>. 8 C.C<> to D<>

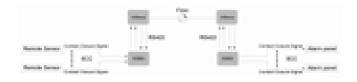
- Surface mount technology
- Compatible with contact closure
- LED indicators for monitoring of system operating status
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

N3952 contact closure converter provides the ability to convert 4-ch bidirectional or 8-ch unidirectional contact closures to 1-ch RS-232 / RS-422 data. It can provide long distance transmission of 4-ch bidirectional or 8-ch unidirectional contact closures via working with other Fiber Optic that perform the function of data transmission.

Modular in design, the N3952 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall.

4/8		
8ms (Active low)		
1 A @ 30 VDC, 0.5 A @ 125 VAC		
Red		
Green		
Green		
-40°F ~ 167°F (-40°C ~ 74°C)		
-40°F ~ 185°F (-40°C ~ 85°C)		
0 ~ 95% RH (non-condensing)		
0.79" x 5.08" x 6.73"		
(20mm x 129mm x 171mm)		
0.94" x 6.22" x 7.87"		
(24mm x 158mm x 200mm)		
1.8W		
0.80lbs. (0.36kg)		
1.55lbs. (0.70kg)		
>100,000 Hrs		
Certifications and Approval		
FCC, CE, ISO 9001:2008		

System diagram



Ordering information

Note: Factory default sets contact closure converting into RS-422 data.

Please specify if it is needed to convert contact closure into RS-232 data.

N3952X-4-M	TRX, 4 Contact Closure IO, factory default set up
	RS-422 data, Module, 12VDC/24VAC
N3952X-4-R	TRX, 4 Contact Closure IO, factory default set up
	RS-422 data, Card, 1-Slot
N3952T-8-M	TX, 8 Contact Closure In, factory default set up
	RS-422 data, Module, 12VDC/24VAC
N3952T-8-R	TX, 8 Contact Closure In, factory default set up
	RS-422 data, Card, 1-Slot
N3952R-8-M	RX, 8 Contact Closure Out, factory default set up
	RS-422 data, Module, 12VDC/24VAC
N3952R-8-R	RX, 8 Contact Closure Out, factory default set up
	RS-422 data, Card, 1-Slot

Accessories

N3921-12D-1:	12 VDC (120 VAC), 10 VA
N3921-12D-2:	12 VDC (230 VAC), 10 VA
N3921-24A-1:	24 VAC (120 VAC), 20 VA
N3921-24A-2:	24 VAC (230 VAC), 20 VA

Applications

- · Smart buildings
- · Security and surveillance
- Intelligent transportation system
- Highway surveillance system
- Alarm system

Configurations

- Compact 1 slot module and 1 slot card unit
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

Specialized Product Family



V1750A Series





















- High-precision metal solid housing to ensure the internal high-pressure environment, dust-proof and water-proof, IP67 rating
- Internal sensors, for real-time display of the internal temperature and pressure
- Mutual exchange between Fahrenheit and Centigrade
- Multiple alarms associated with relay output, preset, pattern and autoscan
- 2 privacy mask modes to shield private scenes
- Internal multi-protocol switcher, supporting multiple leading control protocols with high compatibility
- Password protection function to prevent illegal altering of the menu parameters
- Excellent anti-interference ability (electromagnetic, radio frequency, low current)
- Anti-ice/anti-mist, built-in heater and air circulating system

V1750A series pressurized PTZ dome cameras feature a nitrogen pressurized stainless steel rim for maximum protection against airborne contaminants and moisture. Special valves minimize decrease in pressure over time. Solid-state sensors in the housing relay important system information, such as internal temperature and pressure readings, back to the control center. Non-volatile memory in the housing enables automatic downloads of camera presets and other data in the event that the camera and drive module must be replaced.

The domes are available with 23×12 and 36×12 optical/digital zooms, ensuring the ability to get the right camera for different projects. Digital Signal Processing technology provides enhanced clarity, color and detail, with the day/night camera; usable images can be delivered even in extremely low light conditions. Separate definable privacy zones can be set by administrators to prevent users from viewing restricted areas. The PTZ dome's direction indicators, which can be displayed on the monitor, denote the direction in which it is moving.

The internal multi-protocol receiver allows the domes to be compatible with control site devices from Infinova, such as the V2116 keyboards, and Infinova matrix switchers; as well as devices from the 3rd party manufacturers. These settings are automatically downloaded if a new dome drive is installed.

Laws	
Lens	22V 2CV
Optical Zoom	23X, 36X
Aperture/ Focal Length	23X: F1.6~F3.7, f=3.6~82.8mm 36X: F1.6~F4.5, f=3.4~122.4mm
Angle of View	23X: 54° (Wide) / 2.5° (Tele) 36X: 57.8° (Wide) / 1.7° (Tele)
Min. Work	23X: 0.01m (Wide) ~ 1.0m (Tele)
Distance	36X: 0.32m (Wide) ~ 1.5m (Tele)
Camera	
Scanning System	2:1 Interlace Scanning
Image Sensor	23X: 1/4" Progressive scan CCD 36X: 1/4" Progressive scan CCD
Effective Pixels	PAL/440K: 752 (H) × 582 (V), NTSC/380K: 768 (H) × 494 (V)
Sensitivity (23X)	Color mode: 0.02 lux @ F1.6 (30IRE. AGC max. PAL: 1/50s, NTSC: 1/60s); 0.01 lux @ F1.6 (30IRE. AGC max. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @ F1.6 (30IRE. AGC max. PAL: 1/50s, NTSC: 1/60s); 0.01 lux @ F1.6 (30IRE. AGC max. PAL: 1/3s, NTSC: 1/4s)
Sensitivity (36X)	Color mode: 0.66 lux @ F1.6 (30IRE. PAL: 1/50s, NTSC: 1/60s); 0.01 lux @ F1.6 (30IRE. PAL: 1/3s, NTSC: 1/4s) B/W Mode: 0.01 lux @ F1.6 (30IRE. PAL: 1/3s, NTSC: 1/4s)
S/N Ratio	>50dB
Video	
Video Type	PAL/NTSC (D/N)
Horizontal	23X: 540TVL
Resolution	36X: 530TVL
Video Output	1.0±0.2Vp-p
Communication	
Protocols	NFINOVA, PELCO-P/D, Up-the-Coax
Operational	0.5°~90° per second
Manual Pan /Tilt Speed	(0.5°~180° per second for 36X) (based on zoom position)
Preset Pan/Tilt	240°/s, maximum
Speed	(200%s, maximum for 36X)
Pan Travel	360° continuous
Tilt Travel	-3°~90°
Preset Accuracy	±1° (±0.3° for 36X)
Zoom/Focus Accuracy	±0.5%
Presets	Pelco P/D / Up-the-Coax: 128; Infinova: 127
Patterns	4
Programmable Areas	16
Video Blanking Sectors	16
Spherical Privacy Zones	24
Tours	6
Alarm Inputs	4 alarm inputs

Image Mirror	Yes
WDR	23X: OFF/WDR/AD WDR/WDR*/AD WDR* 36X: ON/OFF
FNR	23X: OFF/AUTO/MANU 36X: /
Digital Zoom	1~12X adjustable
Digital Slow Shutter	Yes
Focus	AUTO / MANU / M/A
White Balance	AUTO / MANU
Backlight Compensation	ON/OFF
Shutter Speed	Auto: default set Manual: 23X: PAL: 1/1.5~1/30000s; NTSC: 1/2~1/30000s 36X: PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s
Iris	AUTO / MANU / M/A
Mechanical	
Product Dimension Product Weight	12.1" × Φ10.6" (307mm × Φ270mm) 18.35lbs. (8.32 kg)
Shipping Weight	22.1lbs (10.00 kg)
Motor	Stepping motor
Dome Housing	Type 316 stainless steel
Dome Mount	Type 316 stainless steel
Pressure	
Pressure	15.6~21.6psi (107.3~148.5kpa)
Pressure Relief	22.4psi (154kpa)
Pressure Alarm	15.5psi (106.6kpa)
Sync	
Sync System	Internal/Line-locked
Internal Synchronization	Built-in sync generator
Line-locked Synchronization	Remote V-phase adjustment
Electrical	
Power Supply	24VAC
Power Consumption	Outdoor: 50W
Power On In-Rush Current	2amps (maximum)
Environmental	40°F × 123°F / 40°C × 50°C
Operating Temperature	-40°F ~ 122°F (-40°C ~ 50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	0~100% RH (Non-condensing)
Rating	IP67
Fan & Heater	Continuous fan; auto-start heater
Certifications and	
Product Certifications	CE/EMC: EN 55022, EN 55024 ¹ ; FCC: Part15 Subpart B, Class B ² ; ISO 9001:2008

Certificate No.: 1 RSZ07070304-1&2; 2 RSZ07070304.

Ordering information

Туре	Bubble	23X D/N	36X D/N
Outdoor NTSC Camera 24VAC	Vandal-Resistant Clear	V1757A-COC3B6	V1753A-COC3B6
Outdoor NTSC Carriera 24VAC	Vandal-Resistant Smoked	V1757A-COS3B6	V1753A-COS3B6
Outdoor PAL Camera 24VAC	Vandal-Resistant Clear	V1757A-C1C3B6	V1753A-C1C3B6
Outdoor PAL Carriera 24VAC	Vandal-Resistant Smoked	V1757A-C1S3B6	V1753A-C1S3B6

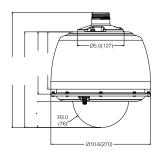
PTZ Dome Auxiliary

V1791 Nitrogen Recharge Kit, Complete with Tank, Regulator, 6 feet Hose and Air Chuck

V1761S Wall Mount, Stainless Steel V1762S Corner Mount, Stainless Steel V1763S Pole Mount, Stainless Steel

For detailed information, please refer to V1760 series indoor/outdoor dome mount.

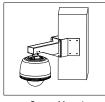
Dimensions

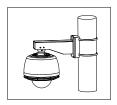


(Unit: inch, in the parentheses is mm)

Mounting







Corner Mounting Pole Mounting

V1631 Series Explosion-proof PTZ Camera System















- 316 stainless steel construction
- Strong corrosion-resistant capabilities
- Use in flammable and explosive hazardous areas
- Compatible with PTZ control on three RS485 protocols (Auto-sensing): PELCO-P, PELCO-D, INFINOVA
- OSD menu programming, able to set address, baud rate and camera parameters
- 128 Presets
- 4 Patterns
- 0.1°~25% variable-speed of Pan/Tilt movement
- 360° continuous Pan/Tilt rotation
- IP68 environmental rating

V1631 series explosion proof integrated PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas.

The system adopts stainless steel construction to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of $-40^{\circ}F^{-}140^{\circ}F$ ($-40^{\circ}C^{-}60^{\circ}C$).

This explosion-proof camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities.

V1631 series allows 360° continuous pan/tilt rotation at the speed of 0.1~25°/s. An optoelectronic device is embedded to detect the position of camera housing. It will send signals to the processor when the camera housing is turned upside down. Then, the processor sends an order to flip the image for normal view.

V1631 series can be easily mounted in the following ways: surface mount, wall mount, corner mount, pole side mount, pole pendant mount, pole stand mount and pole top mount.

Lens	22V 2CV		
Optic Zoom	23X, 36X		
Digital Zoom	X: 1~12X Adjustable X: 12X		
Aperture/	23X: F1.6~F3.7; f=3.6~82.8mm		
Focal Length	36X: F1.6- F4.5; f=3.4~122.4mm 23X: 54° (Wide)/2.5° (Tele)		
Angle of View	36X: 57.8° (Wide)/1.7° (Tele)		
Min. Work Distance	23X: 0.01m (Wide) ~ 1.0m (Tele) 36X: 0.32 m (Wide) ~ 1.5m (Tele)		
Camera			
Image Sensor	1/4" Progressive scanning CCD		
Scanning System	2:1 Interlace Scanning		
Video Type	23X: PAL (D/N) 36X: PAL/NTSC (D/N)		
Sync System	Internal		
	23X: 440K: 752×582;		
Effective Pixels (H×V)	36X: PAL/440K: 752× 582;		
	NTSC/380K: 768×494 23X:		
	Color mode:		
	0.02 lux @F1.6 (30IRE. AGC max. 1/50s)		
	0.01 lux @F1.6 (30IRE. AGC max. 1/3s)		
	B/W mode:		
Sensitivity	0.01 lux @F1.6 (30IRE, AGC max. 1/50s)		
	0.01 lux @F1.6 (30IRE. AGC max. 1/3s) 36X:		
	Color mode:		
	0.66 lux @F1.6 (30 IRE, PAL: 1/50s, NTSC:		
	1/60s)		
	0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC: 1/4s) B/W mode:		
	0.01 lux @F1.6 (30 IRE, PAL: 1/3s, NTSC:1/4s)		
S/N Ratio	>50dB		
Focus	Auto / Manual / M/A		
Shutter Speed (23X)	Auto: Default		
J. Ideler Speed (25A)	Manual: 1/1.5~1/30000s		
Shutter Speed (36X)	Auto: Default Manual:		
Silutter Speed (SOA)	PAL: 1/1~1/10000s; NTSC: 1/1~1/10000s		
Iris	Auto / Manual / M/A		
DSS	Available		
Image			
Horizontal Resolution	23X: 540TVL 36X: 550TVL		
BLC	ON/OFF		
510	23X: OFF/WDR/AD WDR/WDR*/AD WDR*		
WDR	36X: ON/OFF		
White Balance	AUTO/MANU		
AGC	AUTO/MANU		
FNR	23X: OFF/AUTO/MANU 36X: AUTO/OFF		
Stabilization	36X: ON/OFF		

Interface	nterface		
Video Output	1.0±0.2Vp-p		
Mechanical			
Pan Rotation Angle	360°		
Tilt Rotation Angle	360°		
Pan Rotation Speed	0.1% to 25%		
Tilt Rotation Speed	0.1%s to 25%s		
Mounting	Surface, Wall, Corner, Pole Side, Pole Pendant, Pole Stand, Pole Top		
Physical			
Construction Material	Housing: 316 stainless steel Front Window: Tempered glass		
Product Weight	84 lbs. (38±5%kg)		
Shipping Weight	121 lbs. (55±5%kg)		
Electrical			
Input Voltage	100~240VAC		
Voltage Range	±10%		
Power Consumption	60W		
Environmental			
Environmental Rating	IP68		
Atmospheric Pressure	80kpa~110kpa		
Operating Temperature	-40°F ~ 140°F (-40°C~60°C)		
Storage Temperature	-40°F ~ 140°F (-40°C~60°C)		
Relative Humidity	95%RH (77°F/25°C)		
Application Field	For Division 1 and 2 hazardous locations where fire or explosion hazards may exist due to the presence of flammable gases or vapors (Gas Groups: II A, II B, II C; Temperature Classes: T1-T6); For zone 21 and 22 hazardous locations where combustible dust clouds may occur		
Certifications and Approval			
IECEX, EXdIICT6 Gb, Ext IIIC T80°C Db ¹ , CNEX, EXdIICT6 Gb, DIP A21 TA, T6 ² , CE/EMC: EN 55022, EN 55024, EN61000-3-2,61000-3-3 ³ , CE/LVD: EN 60950-1 ⁴ ,			

Certificate No.: 1 IECEx CQM 12.0020X; 2 CNEx12.1920X; 3 BCT09FC-495E; 4 BCT09FC-495S; 5 BCT09FC-496E; 6 P303531/1

FCC ⁵, CCOE/PESO ⁶, ISO 9001:2008

Ordering information

V1631-23A19-2 Explosion-proof PTZ camera system, 23X, PAL,

100~240VAC, 316 Stainless Steel

V1631-36A09-2 Explosion-proof PTZ camera system, 36X, NTSC,

100~240VAC, 316 Stainless Steel

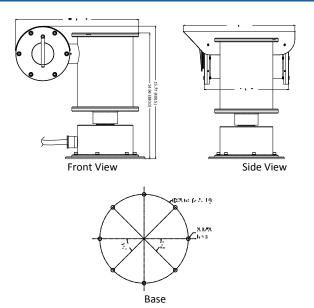
V1631-36A19-2 Explosion-proof PTZ camera system, 36X, PAL,

100~240VAC, 316 Stainless Steel

Recommended Installation Mounts

V1664-W Wall Mount, 316 Stainless Steel
V1664-C Corner Mount, 316 Stainless Steel
V1664-S Pole Mount, 316 Stainless Steel

Dimensions



Mounting







Wall Mounting



Corner Mounting



Pole Side Mounting



Pole Pendant Mounting



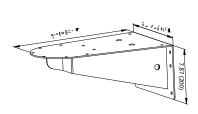
Pole Stand Mounting

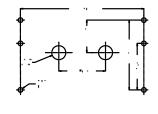


Pole Top Mounting

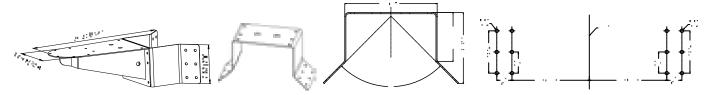
Mounts & adapters dimensions

V1664-W Mount:

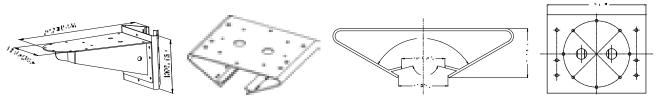




Corner Mount Adapters for V1664-C:



Pole Side Mount Adapters for V1664-S:



V1631MN-T Series

HD 2MP Explosion-proof IP PTZ Camera System







- Embedded with 20X high-definition camera module
- Full HD IP video output with resolution up to 1920×1080@ 30fps
- 316 stainless steel construction, IP68 environmental rating
- Strong corrosion-resistant capabilities
- Use in flammable and explosive hazardous areas
- H.264 High profile/M-JPEG dual-stream encoding, three simultaneous video streams
- Two-way audio, G.711
- Support RS485 and analog video output for easy adjustment
- Support remote PTZ control
- Support area zoom and image PTZ
- Support graphic OSD display
- Multiple white balance modes
- Auto gain control
- Wide dynamic range
- Timed switch between color and B/W modes
- Local recording
- Support preset, pattern, auto-pan, tour and home return, etc.
- Support preset, pattern,
 Support upgrade online
- 2 alarm inputs and 1 relay output
- Up to 4 motion detection areas
- Multiple ways to handle alarms, such as relay output, sending an email, FTP uploading and audible warning, etc.
- Onvif Profile S
- Built-in with wiper
- 0.1°~20'/s variable-speed of Pan/Tilt movement
- 360° continuous Pan/Tilt rotation

V1631MN-T series HD 2MP explosion-proof integrated IP PTZ camera is fully-developed and specially designed for use in flammable and explosive hazardous areas. The system uses 316 stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of $-40^\circ F^140^\circ F (-40^\circ C^00^\circ C)$. This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities.

V1631MN-T supports H.264/M-JPEG dual-stream encoding and three simultaneous video streams. It's embedded with 20X HD zoom camera module with resolution up to 1920×1080@30fps.

The user-friendly GUI interface is designed for easy PTZ control and convenient camera parameter settings. Thus, it makes easier to set the PTZ and perform operations with a mouse than traditional keyboard. In addition, area zoom and image PTZ are also offered. The intelligent motion detection and multiple alarm responses make it even safer to use.

V1631MN-T series cameras also provide functions such as preset, pattern, autopan, autoscan and normal tour, etc.

The series also supports analog video output, RS-485 control and baud rate switch, convenient for various networking requirements.

V1631MN-T series allows 360° continuous pan/tilt rotation at the speed of $0.1^{\sim}20^{\circ}$ /s. An optoelectronic device is embedded to detect the position of camera housing. It will send signals to the processor when the camera housing is turned upside down. Then, the processor sends an order to flip the image for normal view.

Models			
Models V1631MN-20TT, V1631MN-20TL			
Lens			
Optic Zoom	20X		
Aperture/ Focal Length	F1.6~F3.5, f=4.7~94mm		
Angle of View	20TT: 59.6° (Wide) ~ 3.2° (Tele) 20TL: 59.5° (Wide) ~ 3.2° (Tele)		
Min. Work Distance	0.01m (Wide) ~ 1.0m (Tele)		
Camera			
Image Sensor	1/2.8" CMOS		
Scanning System	Progressive Scanning		
Effective Pixels	2.0MP		
S/N Ratio	>50dB		
Sensitivity(20TT)	Color mode: 0.4 lux@ F1.6(1/30s, 350mV equiv., AGC-Gain: 48dB) 0.1 lux@ F1.6(1/8s, 350mV equiv., AGC-Gain: 48dB) B/W mode: 0.01 lux@ F1.6(1/8s, 350mV equiv., AGC-Gain: 48dB)		
Sensitivity(20TL)	Color mode: 0.04 lux @ F1.6 (AGC ON) B/W mode: 0.005 lux @ F1.6 (AGC ON)		
Sync System	Internal		
Iris	Auto / Manual / M/A		
Focus	Auto / Manual / M/A		
Shutter Speed	20TT: Auto (1/1 ~ 1/30000s) 20TL: Auto (1/1 ~ 1/10000s)		
DSS	Available		
Image			
Max. Resolution	1920×1080 @ 30fps		
Image Mirror	OFF/H-mirror/V-mirror/HV-mirror		
Image Freeze	20TT: Available		
DNR	20TL: N/A 20TT: OFF/Manual/Auto (level 1-3 adjustable) 20TL: OFF/1~5 adjustable		
White Balance	20TT: AUTO/MANU/SODI/MERC 20TL: AUTO/MANU/INDOOR/OUTDOOR/ ATW/OUTDOOR AUTO/SODI AUTO		
AGC	Available		
WDR	20TT: WDR/AD WDR 20TL: ON/OFF		
BLC	ON/OFF		
Defog	Available		
Others	20TT: Sharpness adjustable, slow AE, brightness enhancing 20TL: Sharpness, contrast, brightness, saturation adjustable, slow AE, chroma suppress, edge color suppress		
Operational			
Presets	1~255		
Patterns	4		
Autopans	4		
Normal Tours	6 (each tour can be associated with 14 acts, including Preset 1~32, Pattern 1~4, AutoPan 1~4)		
Home Return	Available		
Timed Tours	Available		
Auto Scan	Available		

Motion Detection	4 areas		
Alarm	2 alarm inputs, 1 relay output		
Area Zoom	Available		
Web Server	Available		
Upgrade Online	Available		
Network			
Data Rate	Variable bit rate (vbr); Constant bit rate (cbr): 256Kbps~10Mbps		
Network Delay	<300ms		
Network Protocol	IPv4, TCP, UDP, IGMP, DHCP, FTP, SNMP(V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP		
Compression	552, 552.17, Q65, 111 52, 5145, All , 16141		
Audio Compression	G.711		
Video Compression	H.264 high profile/M-JPEG		
Interface			
Audio Port	1 input (linear level, resistance: $1k\Omega$) 1 output (linear level, resistance: $600k\Omega$)		
Network Port	1 * 10M/100M self-adaptive Ethernet port, RJ-45		
Mechanical			
Pan Rotation Angle	360°		
Tilt Rotation Angle	360°		
Pan Rotation Speed	0.1% to 20%s		
Tilt Rotation Speed	0.1% to 20%		
Electrical			
Input Voltage	100~240VAC		
Current Rating	500mA		
Power Consumption	80W		
Voltage Range	±10%		
Environmental			
Atmospheric Pressure	86kpa~110kpa		
Operating Temp.	-40°F~140°F (-40°C~+60°C)		
Storage Temp.	-40°F~158°F (-40°C~+70°C)		
Relative Humidity	≤95%RH (77°F/+25°C)		
Application Field	For Division 1 and 2 hazardous locations where fire or explosion hazards may exist due to the presence of flammable gases or vapors (Gas Groups: II A, II B, II C; Temperature Classes: T1-T6); For zone 21 and 22 hazardous locations where combustible dust clouds may occur		
Physical	·		
Material	316 stainless steel		
Environmental Rating	IP68 (1.5m/2h)		
Product Weight	84 lbs. (38±5%kg)		
Shipping Weight	121 lbs. (55±5%kg)		
Mounting	Surface, Wall, Corner, Pole Side, Pole Pendant,		
Certifications and Appr	Pole Stand, Pole Top roval		
Product Certifications	CNEx, ExdIICT6 Gb, DIP A21 TA, T6 ¹ , IECEx, ExdIICT6 Gb, ExtIIICT80°C Db ² , CCOE ³ , ISO 9001:2008		

Certificate No.: 1 CNEx12.1920X; 2 IECEx CQM 12.0020X; 3 P338685/1

Ordering information

V1631MN-20T29T-2 HD 2MP Explosion-proof PTZ camera system,

2.0MP, 20X, 1/2.8" progressive scanning CMOS,

H.264/M-JPEG, 316 Stainless Steel, audio alarm,

100~240VAC

V1631MN-20T29L-2 HD 2MP Explosion-proof PTZ camera system,

2.0MP, 20X, 1/2.8" progressive scanning CMOS,

H.264/M-JPEG, 316 Stainless Steel, audio alarm,

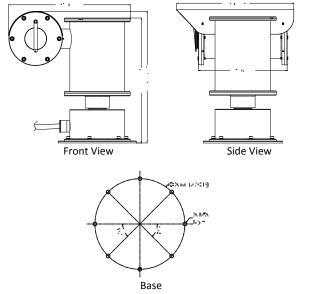
100~240VAC

Recommended Installation Mounts

V1664-W Wall Mount, 316 Stainless Steel
V1664-C Corner Mount, 316 Stainless Steel
V1664-S Pole Mount, 316 Stainless Steel

Note: Mounting brackets shall be ordered.

Dimensions



(Unit: inch, in the parentheses is mm)

Mounting







Wall Mounting



Corner Mounting



Pole Side Mounting



Pole Pendant Mounting



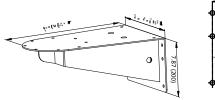
Pole Stand Mounting

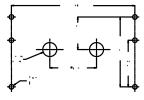


Pole Top Mounting

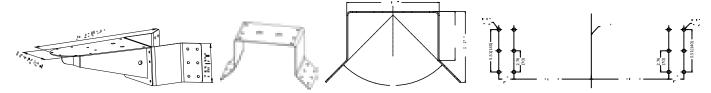
Mounts & adapters dimensions

V1664-W Mount:

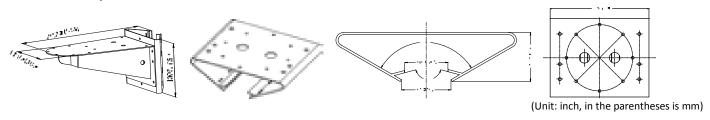




Corner Mount Adapters for V1664-C:



Pole Side Mount Adapters for V1664-S:



V1421 Series Explosion-proof Camera Housing





- 316 stainless steel construction
- The front end window utilizes steel glass
- Strong corrosion-resistant capabilities
- IP66 environmental protection
- Suitable for indoor/outdoor flammable and explosive hazardous areas
- Use with fixed mount or adjustable mount

V1421 series explosion-proof products are housings that meet stringent corrosion-resistant requirements. The housing made of 316 stainless steel features excellent explosion-proof and strong corrosion-resistant capabilities. It is suitable for both indoor and outdoor installations. Infinova's line of fixed cameras and zoom cameras can be installed in this explosion-proof housing. The V1421 housing is ideal for use in environmental conditions including chemical industry, oil storeroom and fuel facilities.

The features in the design are in accordance with IECEx standard. The symbol for explosion-proof camera housing is ExdIICT6. Environmental protection is IP66.

V1421 General Parameters			
Mechanical			
Construction	316 Stainless Steel		
Environmental Rating	IP66		
Physical			
External Dimensions	6.46"×6.46"×18.50"		
(W×H×L)	(164 mm×164 mm×470 mm)		
Internal Dimensions	2.68"×3.15"×10.24"		
(W× H×L)	(68 mm×80 mm×260 mm)		
Unit Weight	30.86 lbs. (14 kg)		
Shipping Weight	33.07 lbs. (15 kg)		
Box Dimensions	9.53"×9.92"×21.73"		
(W×H×L)	(242 mm×252 mm×552 mm)		
Electrical			
Input Voltage	24 VAC / 110 VAC / 230 VAC, 60/50 Hz		
Power Consumption	30 W (Maximum)		
Environmental			
Atmospheric Pressure	86kpa~106kpa		
Operating Temperature	-4 °F ~ 140 °F (-20 °C~+60 °C)		
Relative Humidity	95% RH (77°F/25°C)		
Application Field	For Division 1 and 2 hazardous locations where fire or explosion hazards may exist due to the presence of flammable gases or vapors (Gas Groups: II A, II B, II C; Temperature Classes: T1-T6)		
	- F		

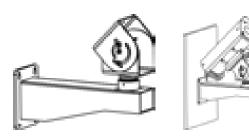
Certifications and Approval

IECEx, ExdIICT6¹, CNEx, ExdIICT6², CE/EMC³: EN 55022, EN 55024, EN61000-3-2,61000-3-3, CE/LVD⁴: EN 60950-1, FCC⁵, ISO 9001:2008

Certificate No.: 1 IECEx CQM 09.0001; 2 CNEx 08.1401X; 3 BCT09FC-499E; 4 BCT09FC-499S; 5 BCT09FC-500E

V1665-W1 General Parameters			
Construction	316 Stainless Steel		
Unit Weight	8.82 lbs. (4kg)		
Shipping Weight	11.02 lbs. (5kg)		
Box Dimensions	17.52"×12.60"×6.69"		
(L×W×H)	(445 mm×320 mm×170 mm)		

Installation



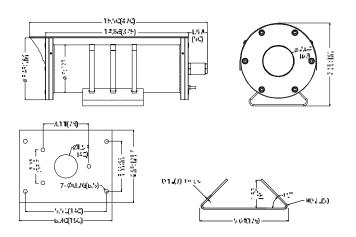
Ordering information

V1421-15SHB6-2	Camera housing, explosion-proof, 15 inch, w/
	sunshield, wiper, heater, blower, 316 Stainless
	Steel, outdoor, 24VAC
V1421-15SHB7-2	Camera housing, explosion-proof, 15 inch, w/
	sunshield, wiper, heater, blower, 316 Stainless
	Steel, outdoor, 110VAC
V1421-15SHB8-2	Camera housing, explosion-proof, 15 inch, w/
	sunshield, wiper, heater, blower, 316 Stainless
	Steel, outdoor, 230VAC
V1421-15A6-2	Camera housing, explosion-proof, 15 inch, 316
	Stainless Steel, indoor, 24VAC
V1421-15A7-2	Camera housing, explosion-proof, 15 inch, 316
	Stainless Steel, indoor, 110VAC
V1421-15A8-2	Camera housing, explosion-proof, 15 inch, 316
	Stainless Steel, indoor, 230VAC
Mounts	

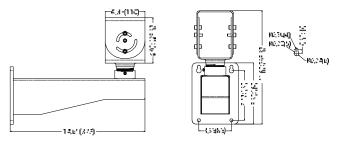
Mounts

V1665-W1 Adjustable Wall Mount, 316 Stainless Steel

Housing dimensions



Mount dimensions



(Unit: inch, in the parentheses is mm)

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