# BOLIDE
## TECHNOLOGY GROUP

ISO 9000
IAPMO
R&T ™

ISO 9001:2008
Certified

Vol. 132

iPac™

Bolide

Bolide®

Bolide®

**Quality you can trust.**

**Bolide Technology Group, Inc**. is a world wide major manufacturer and ISO 9001:2008 certified Distributor of CCTV surveillance products and accessories. With a prestigious history of over 17 years offering high-quality, cutting edge products along with exceptional customer service, Bolide has become one of the fastest growing companies and most sought after suppliers in the industry.

Bolide Technology Group is dedicated to developing products that are distinctive and innovative, using the latest and most advanced technologies to satisfy the diverse needs of customers worldwide. To accomplish this, Bolide has created a global R&D network with operations in the United States , China , Mexico and  throughout Latin America ..

Bolide provides a complete line of CCTV equipment from cameras, Digital Video Recorders, matrix systems and monitors to accessories such as cables, connectors and power supplies. Moreover, Bolide continues to add new technologies to its already extensive line of CCTV products & accessories to meet the constantly growing demand of its clients and partners around the globe. More than 95% of Bolide products are developed and manufactured by Bolide certified  facilities. This enables the maintaining of strict manufacturing and quality control standards, ensuring that we meet the high levels of performance and consistency expected by Bolide customers.

From its impressive new state of art 26,000-square-foot headquarters located in Southern California and through a responsive network of sales representatives across the United States , Mexico and Latin America , Bolide offers the best valued high performance security products in the market. Our mission is to provide our partners the best selection of the highest quality products with outstanding customer service.

# www.bolideco.com

**Bolide Technology Group**

# NETWORK/IP CAMERAS

## iPac®

### The ease of plug and play.

iPac
IP Systems

Digital Video
Recorders

PTZ & Matrix
Systems

Security
Cameras

Security
Monitors

Covert Cameras

Security
Accessories

iPac
IP Systems

Digital Video
Recorders

PTZ & Matrix
Systems

Security
Cameras

Security
Monitors

Covert Cameras

Security
Accessories

Bolide's Network Video solution "iPac", the first hybrid camera system to combine high density pixel resolution, local recording (SD card), Analog output, 2 way audio, POE, and a host of other features incorporated into an all in one package. Bolide's new iPac solution incorporates the best of both worlds, both analog and digital technology combined to deliver better and clearer images, better networking, advanced coding and more efficient surveillance.

# iPac®
## The ease of plug and play.

"iPac is filled with features that are designed to satisfy most of todays security surveillance requirements, at a price you would normally pay for a standard analog camera. Like a Swiss army knife, iPac was created to be the ideal solution for many application, IP or analog, it has everything you need. Designed to meet a wide range of systems requirements, the iPac line of cameras is the solution for todays most demanding application including Hospitals, Banks, Schools, Commercial chain stores, as well as restaurants and home security. iPac is available in different form factors, both IR bullet and vandal dome, mini dome, PTZ, and traditional boxed camera. Need to integrate to an existing system? No problem, iPac comes ready to integrate with Onvif protocol built in, which makes integrating to 3rd party systems simple.

## iPac® - Hardware

When you need 24X7 reliability, long term durability and proven technology, there is no margin for error, which is why Bolide only implements the highest quality parts to manufacture our network video systems.

**TEXAS INSTRUMENTS**

Using TI DaVinci as the processing power behind iPac, we can provide the best encoding that can reach H-264 with High Profile 4.2 at up to 5 Mega Pixel Resolution.

However, a hight processing DSP needs to be combined with the an equal like operating system, and the only solution to offer the best is Linux. iPac uses the current 4.2 build which allows us to rapidly develop new and exciting functions and features for our product software line-up, and ever developing software.
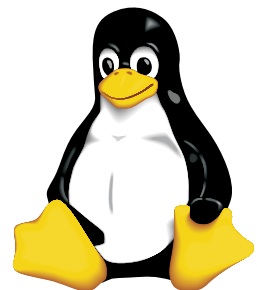
**Onvif**

Open standards is the best and most flexible way to bring complex devices to talk to each other. Bolide iPac Camera are one of the early adopters for Onvif and take great steps to check and verify our devices with the world leading CMS systems. This gives customers the best choice and frees the limits of pre-open standards when new device would of required longer implementation time and developing software.

## iPac® - Connectivity

iPac cameras can integrate with most 3rd party softwares, so your system is not limited. With built in Onvif protocol standard, connecting to other softwares or NVR's is easy.



## iPac® - Flash Technology

# iPac®

**The ease of plug and play.**

**Flash Video is embedded inside iPac cameras.**



iPac has embedded the core video streaming (RTMP) of flash video inside.

The common method for IP camera devices to write quick applications is to create an IE (Internet Explorer) Active X component. This is executed on your PC only devices from the browser. Two problems with this: Windows Only and IE only.

With built-in Flash, iPac cameras support not only Microsoft Internet Explorer, but also Fire Fox, Safari, Opera and Google Chrome. Most IP cameras in the market are limited to only using Microsoft Internet Explorer; however, iPac gives you the flexibility to use which ever browser you like best.



| Internet Explorer | Google Chrome | Mozilla Firefox | Apple Safari | Opera |

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

Security Monitors

Covert Cameras

Security Accessories

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## iPac® - Pixel Density "Size does matter"

# iPac®
**The ease of plug and play.**

**iPac offers different choices in resolution / pixel density for your applications...**

IP cameras require advanced high speed processing, not only for encoding but also to obtain high quality video streams, picture exposure, shutter control and white balance. Whether it be VGA, HD, FULL HD, or 5 Mega Pixels, you can count on iPAC delivering crisp, real time images.

The image below gives you an idea of resolution scale between VGA and 5.0 Megapixel. Notice how a VGA resolution is only 1/16 the size of 5.0 Megapixel.
Also, notice the difference in aspect ratio between resolutions. Where CCTV historically has been at a 5:4 ration, HD is now a 16:9 ratio which is now the common monitor display aspect. CRT monitors pass on to be obsolete in a new digital world.

The image below gives you an idea of resolution scale between VGA and 5.0 Mega pixel resolution. Notice how a VGA image is only 1/16 the size of 5.0 Mega Pixel.



**4**
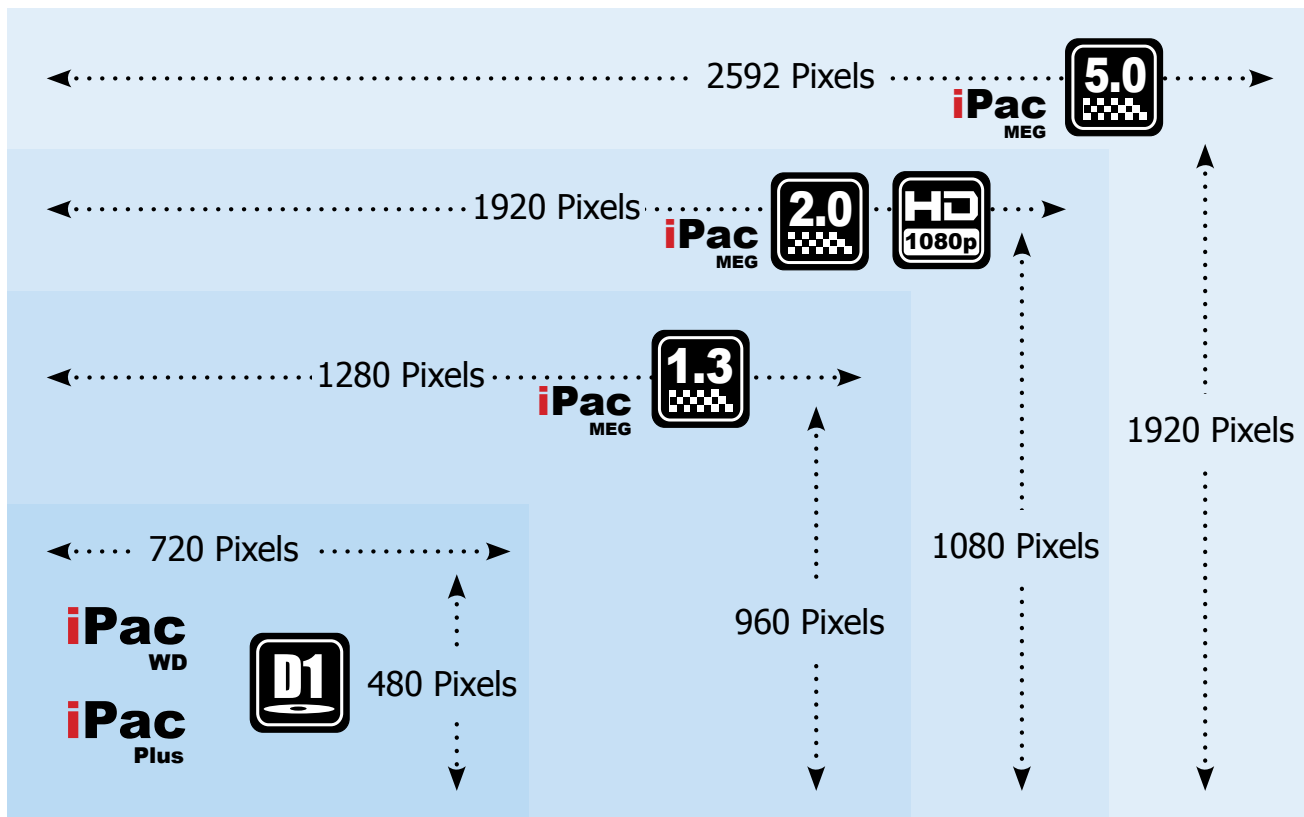
## iPac® Series - iPac Meg, iPac WD, iPac Plus

### iPac MEG

**1.3**  **2.0**  **5.0**

- MegaPixel Series
- High Resolution CMOS/CCD MegaPixel Sensor
- Available in 1.3 MP CCD, 2MP HD and 5 MP HD
- Day/night functionality
- Built-in IR Cut-filter (Box model only)
- 3 Streaming Selectable Profile

HD 1080p   MEGA PIXEL

### iPac WD

*Powered by* **PIXIM® SEAWOLF**

- Wide Dynamic Range
- Maximum Resolution: 720 x 480 D1
- VBR 40-6000 kbps
- Powered by Pixim Seawolf CCD

D1   WDR

### iPac Plus

**D1**

- High Resolution Series
- Maximum Resolution: 720 x 480 D1
- VBR 40-6000 kbps
- Day/night functionality
- Built-in Sony Effio-e DSP

SONY Effio

## iPac® - Pixel.

# iPac®

### The ease of plug and play.

## iPac - Pixel that you can identify.

With any IP camera more pixels does not equal high quality images. At Bolide we use the best available methods to measure and benchmark our products. This is done by using a public software application HYRES program designed to measure against the standard ISO 12233 resolution chart. There is no subjective thinking, the process is logical software processing the image captures and giving a valued result. Many factors can make an image look nice visually with noise reduction anti-aliasing, and other such tricks that can be employed to make you think you are getting high quality images. But definition to the pixel indicates a true performance and high quality technology, and not just offering a large pixel size.

This image is a sample capture from the ISO 12233 chart. This is a copyright chart and not for public domain. This image captures the entire area and we do not crop the edges which would give an otherwise false reading.
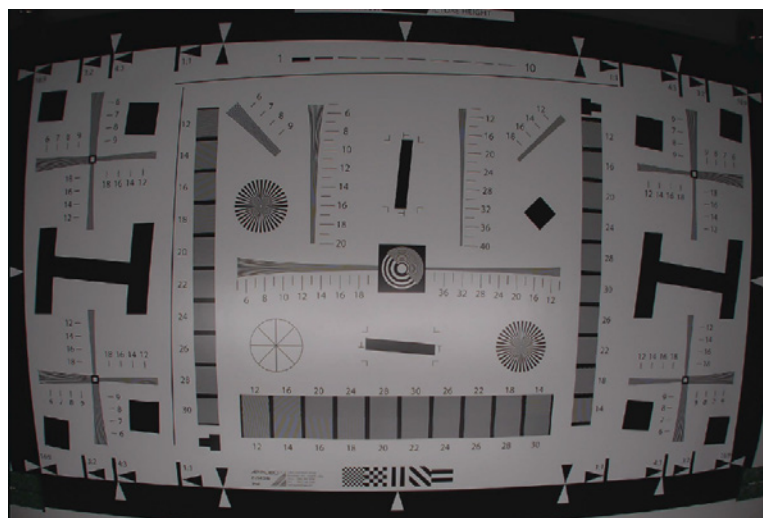
**iPac® - Selection**

iPac cameras are available in different form factors to cover an extensive range of applications. From mini vandal dome cameras, PTZ's, IR bullet to encoders and decoders that allow you to integrate an existing analog camera to an iPAC system. With our wide range of options you can be certain that we can meet your needs, whether it be indoor or outdoor, wired or wireless, or harsh environments, we got you covered.

**iPac® - Exclusive features & functions**

Most of our iPac cameras come with built in features and functions exclusive to the iPac family of products.

**Standard exclusive features & functions:**
• Alarm in/out
• BNC output
• POE ready
• SD card slot for local recording (up to 64GB)
• RS485
• Audio in/out
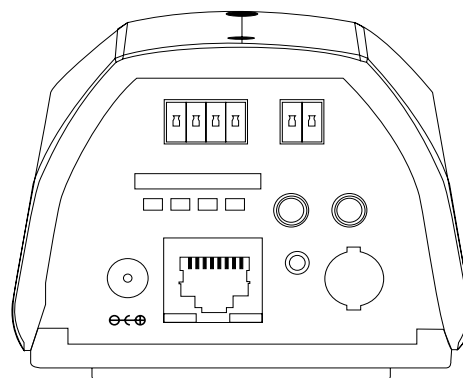
**iPac® App - Available in App Store & Google play**

iPac supports the latest smart devices using iOS and Android for remote monitoring. Using the latest in technology you can monitor you cameras from anywhere anytime. Simply download the iPAC app available in the Apple App store or Google play and you are ready to go.

App Features:
• Real-time video/audio monitoring
• Live video snapshot
• Intuitive control for PTZ operation
• Auto-sniff camera search on LAN
• Complete remote configuration

Sidebar: iPac IP Systems | Digital Video Recorders | PTZ & Matrix Systems | Security Cameras | Security Monitors | Covert Cameras | Security Accessories

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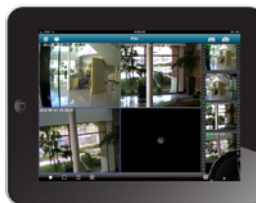
## iPac® - Network System

# iPac - Digital Solution

- Auto Sniff -easy auto detection of IP devices
- Multi-Monitor display output up to four monitors
- Remote PTZ Camera Control
- Record constant, Alarm and Motion detection
- Centralized management of devices.
- Monitoring. Mega pixel or Standard resolution IP devices
- Manual, Event-driven,and Scheduled
- Audio Monitoring / Two way audio
- Playback the current recordings (Local HDD/NAS/FTP)
- Playback from sd memory card on device
- Playback up to 16 devices at same time

**iPac** ®

**The ease of plug and play.**

**iPac** MEG

**iPac** WD

**iPac** PLUS

**Network Switch**

Connect iPac to a network switch

**NVMS**

**NAS / NVR / FTP**

**External Monitor**

Recording through NVMS / NAS / NVR / FTP. With NVMS, allows up to three extra display for monitoring options and monitor/talk to the camera remotely.

**Video Server**

Convert existing analog camera to digital

**HD Cloud Display**

Monitor / Record with HD Cloud display

**i-Cube**

WI-FI

Connect through Wifi

**LAN**

Local Area Network

**HD Decoder**

**HDTV**

Decoder for HD display

**Remote Viewing with Tablet/Smart Phone**

**WAN**

Wide Area Network

**Remote PC**

Android / iOS apps available for download

Viewing remotely with your favorite browser

iPac IP Systems

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

Security Monitors

Covert Cameras

Security Accessories

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iPac IP Systems

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

Security Monitors

Covert Cameras

Security Accessories

## iPac® - Free Network Video Management Software (NVMS)

# Network Video Management Software (NVMS)

**Features:**
- Simultaneously Real-time 36-channels, up to 128ch
- Compatible with iPac cameras and Bolide DVRs
- Manual, Event-driven and Scheduled Record
- Easy auto detection of IP devices (LAN)
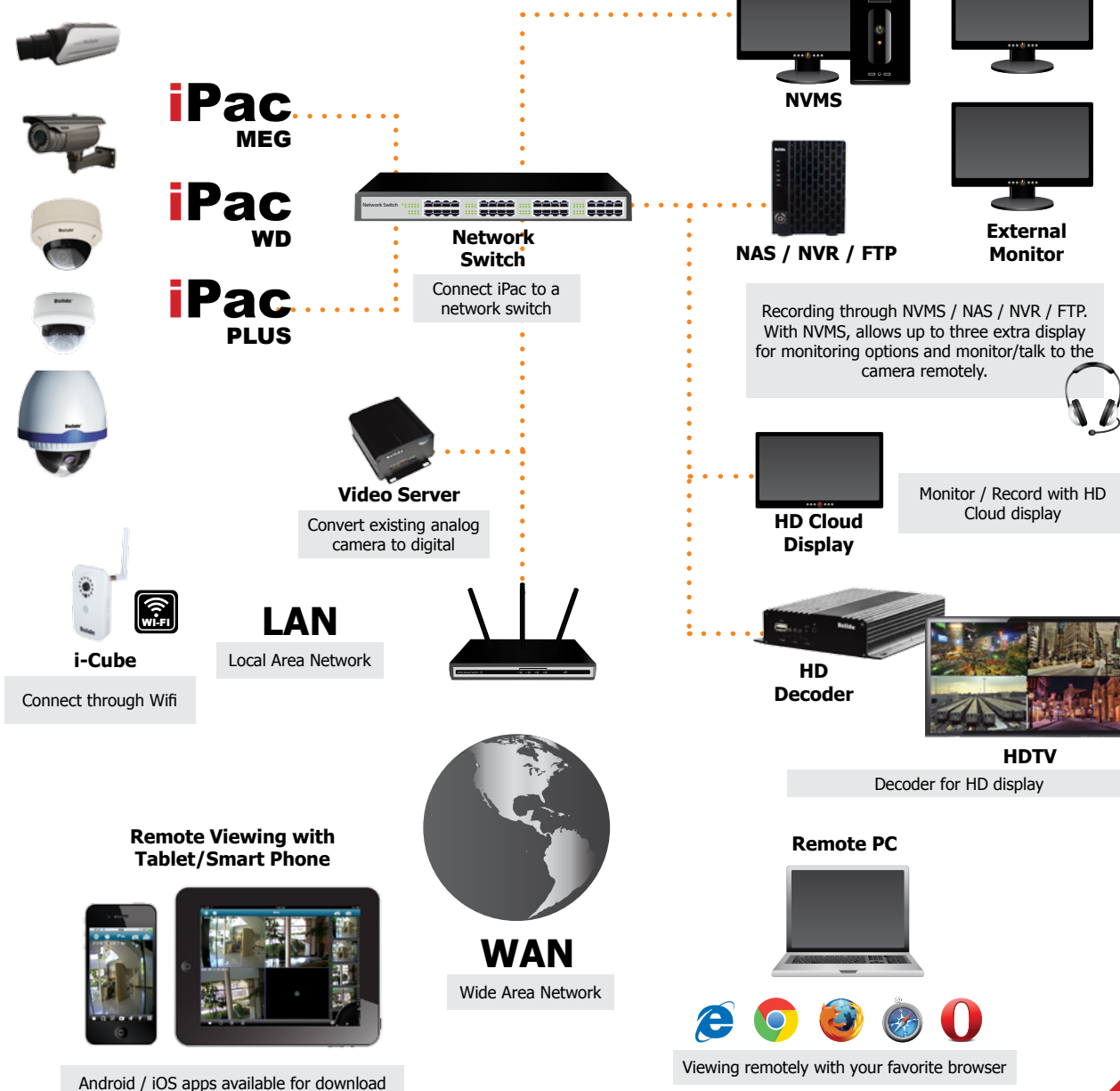- iPac Cameras / DVS (Video Servers)
- Audio Monitoring / Two way talk back
- Easy to use search and playback
- Playback up to 16 devices at same time

## Minimum Specifications Requirements:

| | |
|---|---|
| OS Requirement | Windows XP or later |
| System Memory | 2GB |
| HDD | 250GB |
| Graphic Memory | Nvidia or ATI 256MB |
| Compression | H.264 |
| Record Resolution | Mega Pixel 1280 x 960 @ 22fps |
| Playback | Local or Remote SD Search |
| Record Mode | Schedule, Motion, Time |
| PTZ Control | Supported |
| Audio | 2-way communication |
| Live View | 36 Max. |
| Max Cameras Supported | 128 |

## iPac® - HD Cloud Display

# IP HD Cloud Control Monitor with Touch Display

**Features:**
- Cloud Monitoring Platform
- IP Virtual Matrix
- Multi-image Display
- Display IP camera support: D1, 720p, 1080p
- Support ONVIF & PSIA
- Support Multi-coding: H.264, MPEG4, MJPEG
- Built-in NVR and Single Touch Screen System

## Specifications:

| Model Number | BN-LCD22 | BN-LCD46 |
|---|---|---|
| Display Panel | 22 inch 16:9 TFT/LCD | 46 inch 16:9 TFT/LCD |
| Resolution | 1920 x 1080 | |
| VGA | 1 Channel VGA Input | |
| Ethernet | 1 x 10/100 Network Interface | |
| USB | 2 x USB 2.0 | |
| HDD | 1 x SATA 2.0 | |
| Power | AC 100~230v 50/60Hz | |
| Power Consumption | 45W | 260W |
| Dimension | 522 x 322 x 60 | 1116 x 670 x 126 |
| Weight | 16.5 lbs | 68 lbs |
| Video System | Worldwide System | |
| Brightness | 450cd/m | 500cd/m |
| Contrast | 1000:1 | 3000:1 |
| Respond Time | 5ms | 8ms |
| Viewing Angle | 160°,170° | 178°,178° |
| Working Environment | Temperature: 14°F - 131°F, Humidity: 10% - 85% Max. | |

**iPac** MEG　　**iPac** WD　　**iPac** PLUS

**Network Switch**

Connect iPac to a network switch

- Record & Manage iPac Camera
- IP Matrix Display
- Touch Screen

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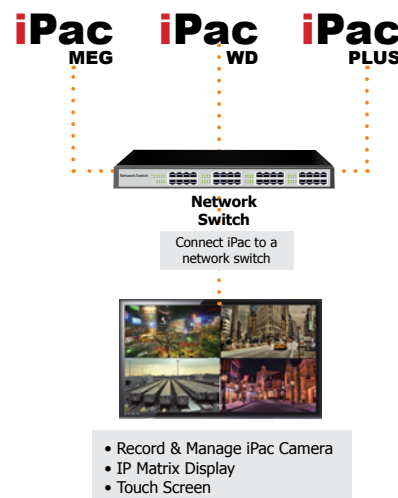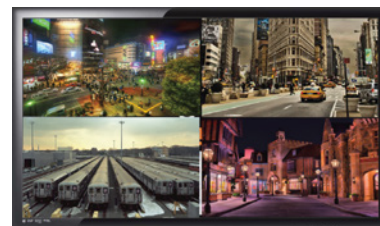
## iPac® - Intelligent Video Software

### Bring iPac Cameras to the next level

**Features:**
- Compatible with iPac cameras and ONVIF cameras
- Record on IVS
- Recording transcode
- Supports 8 instant responses
- Intelligent event search with video
- Scalable and Flexible
- Low CPU consumption
- Self-learning algorithm automatically adapts to environment changes
- Tracks up to 100 targets and has 40 detection zones per camera
- Intuitive and unique 3D grid calibration
- Robust tracking – continues to track stopped and slow moving objects
- Ignores repetitive movement such as swaying trees
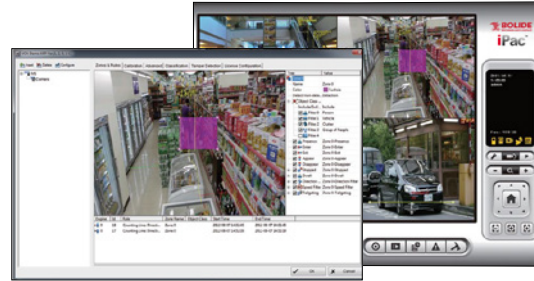
**iPac®**
The ease of plug and play.

## Features Highlights

### People Counting
This counting solution includes a bi-directional line-crossing filter, suitable for counting people in busy doorways and entrances.

### Vehicle Counting
This counting solution captures statistics on vehicle flow, it also provides an estimated speed of the vehicle.

### Stabilizer
In environments where camera stability is an issue, this feature will compensate for any movement to provide a clear view.

### Presence Filter
(Tripwire) Detects when an object or individual has penetrated the defined perimeter.

### Tamper Detection
Detects any event that significantly changes the field of view of the camera, such as loss focus, a camera being covered up…etc.

### Enter and exit
An alarm is triggered when an object crosses from the outside to the inside of a detection zone.
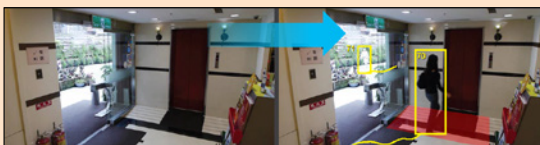
### Appear and Disappear
Used to detect people appearing or disappearing through a doorway but ignores people passing by in front of the doorway.

### Stopping
Objects that are stopped inside a zone for longer than the defined amount of time will trigger an alarm.

### Dwell
Objects that dwell inside a zone for longer than the predefined amount of time will trigger an alarm such as loitering people.

### Direction
Objects that travel in the configured direction (within the limits of the acceptance angle) through a zone or over a line trigger an alarm.

iPac IP Systems

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

Security Monitors

Covert Cameras

Security Accessories

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# iPac 5.0 Mega Pixel Cameras

**iPac**
**MEG** **5.0**

iPac 5.0 Mega Pixel Cameras features Aptina CMOS imaging technology, which delivers excellent pixel performance, sensor functionality and camera system capability to a world going visual. With Aptina's high-quality imaging portfolio, iPac cameras can deliver new faster and better images ever.

**Features:**
• 1/2.5" Aptina CMOS
• H.264 video compression
• Supports Multi-stream
• Mechanical Day/Night Function
• 5 mega pixel resolution (2592 x 1920)
• Two-way communication
• Built-in micro SD Card
• Onvif v2.2 (Profile S)

**ONVIF**

**5.0** | **Mechanical IR-Cut Filter** | **2 WAY**
**POE** | **SD** | **H.264**


**5 Mega Pixel**


**200% Zoom**


**500% Zoom**

## BN5002M5
iPac Series 5.0 Mega Pixel Box Camera
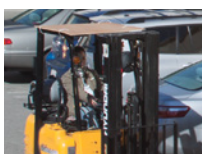
## BN5009M5
iPac Series 5.0 Mega Pixel Vandal Proof IR Dome Camera

## BN5035M5
iPac Series 5.0 Mega Pixel Bullet Camera

## Specifications:

| Model Number | BN5002M5 | BN5009M5 | BN5035M5 |
|---|---|---|---|



| **Camera** | | | |
|---|---|---|---|
| Image Sensor | Aptina 1/2.5" CMOS | | |
| Resolution | 2592 X 1920 10fps | | |
| Minimum Illumination | 0.5Lux@ F1.2, 0 Lux LED On | | |
| IR LEDs | N/A | 12pcs 850nm, 65-82ft | 14 LEDs & 2 High Power LED, 100-130ft |
| Day/Night | True Day & Night with ICR Filter | | |
| Electronic Shutter | Auto/User 1/5 - 1/50,0000; 50/60Hz software selectable | | |
| Video Output | BNC 75 Ohm, Digital out | | |
| Lens | C/CS Mount | 3.3 -12mm Vari-focal IR Corrected DC Auto IRIS | 3.3 -12mm Vari-focal IR Corrected DC Auto IRIS |
| **Video** | | | |
| Compression | H-264 High Profile (Support Baseline Profile) /a MJPEG | | |
| Bitrate (CBR/VBR) | Stream1 50Kbps - 12Mbps Stream2 10Kbps - 6Mbps Stream3 (MJPEG Fixed) | | |
| Streaming Quality | 1-9 | | |
| Multi-Streaming | Three simultaneous streams, two with H-264, one with MJPEG Stream | | |
| Brightness / Sharpness | Variable 0~100 | | |
| Gain Control | Auto / Fixed 8~102db | | |
| Orientation | Horizontal Mirror / Vertical Flip | | |
| Text Overlay | Time / Date / Camera / Custom OSD | | |
| Masking | 3 user defined masking areas | | |
| **Network** | | | |
| Network Interface | RJ-45,10/100Base-t, IPV4/IPV6 | | |
| Network Protocols | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP Unicast and Multicast supported | | |
| Recording Simultaneous | Micro SD/HCSD, Remote FTP, TCP/UDP CMS, RTSP | | |
| Compliance | Onvif v2.2 (Profile S) | | |
| RTSP Video | Standard RFC2326, Support Quicktime / VLC Player | | |
| Alarm/PTZ Control | Alarm 1 in/1 out, RS485 | | |
| Audio Input/Output | 1/1 | | |
| Audio Compression | G711 A-Law, G711 U-Law, RAW_PCM | | |
| **General** | | | |
| Operating Temperature | 14°F ~ 131°F | | |
| Operating Humidity | 10% - 85% Max. | | |
| Input Voltage | DC12V/PoE Class 3 | | |
| Dimensions | 141x78x65mm | 112 x ø130mm (IP66) | 377 x ø110mm (IP66) |
| Weight | 3.63lbs | 1.87lb | 3.63lbs |

iPac IP Systems

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

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Security Accessories

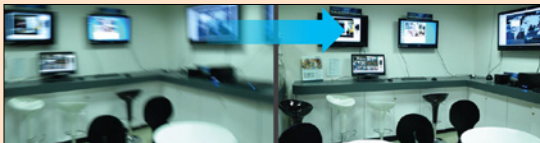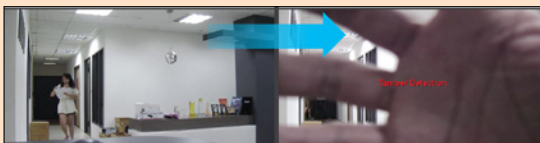# iPac 2.0 Mega Pixel Cameras

**iPac MEG** 2.0

iPac 2.0 Mega Pixel Cameras feature Sony Exmor™ High Speed CMOS imaging technology, which combines high-sensitivity with low noise, and creates images containing more detail than ever before. Sony Exmor™ combines the speed of the CMOS sensor with advanced-quality image sensor technologies accumulated through the development of CCDs. iPac 2.0 Mega Pixel Cameras take advantages of this technology which allows better images and enhanced image quality to meet today's standard. iPac 2.0 Mega Pixel also meets 1080p for HD Display.

**HD 1080p**

**Features:**
• Sony Exmor™ 1/2.8"
• H.264 video compression
• Supports Multi-stream
• Mechanical Day/Night Function
• 2 mega pixel resolution (1920x1080)
• Two-way communication
• Support multi-streaming
• Built-in micro SD Card
• Onvif v2.2 (Profile S)

**ONVIF**

2.0 | Mechanical IR-Cut Filter | 2 WAY | HD 1080p

POE | SD | H.264
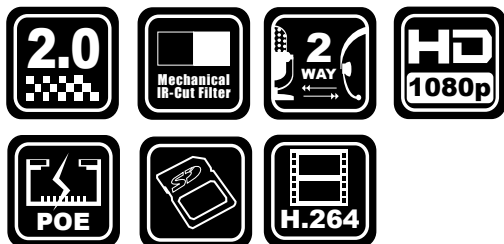

**2 Mega Pixel**


**200% Zoom**


**500% Zoom**

## BN5002M2
iPac Series 2.0 Mega Pixel Box Camera

## BN5009M2
iPac Series 2.0 Mega Pixel
Vandal Proof Dome Camera

## BN5009M2M
iPac Series 2.0 Mega Pixel Vandal Proof
Mini Dome Camera

## BN5035M2
iPac Series 2.0 Mega Pixel Bullet Camera

**Call us today: 1-800-355-0895**

## Specifications:

| Model Number | BN5002M2 | BN5009M2 | BN5009M2M | BN5035M2 |
|---|---|---|---|---|



| Camera | | | | |
|---|---|---|---|---|
| Image Sensor | Sony Exmor™ 1/2.8" | | | |
| Resolution | 1920 x 1080 /30fps | | | |
| Minimum Illumination | 0.1 Lux@ F1.2 | 0 Lux (IR On) | 0 Lux (IR On) | 0 Lux (IR On) |
| IR LEDs | N/A | 12pcs 850nm, 65-82ft | 1pcs 850nm, 20ft | 8 LEDs & 2 High Power LED, 65-82ft |
| Day/Night | True Day & Night with ICR Filter | | | |
| Electronic Shutter | Auto/User 1/5 - 1/50,0000; 50/60Hz software selectable | | | |
| Video Output | BNC 75 Ohm, Digital out | | | |
| Lens | N/A | 3.3 - 12mm Vari-focal IR Corrected DC Auto IRIS | 3.6mm Mega Pixel | 3.3 -12mm Vari-focal IR Corrected DC Auto IRIS |
| **Video** | | | | |
| Compression | H-264 High Profile (Support Baseline Profile) /a MJPEG | | | |
| Bitrate (CBR/VBR) | Stream1 50Kbps - 12Mbps<br>Stream2 10Kbps - 6Mbps<br>Stream3 (MJPEG Fixed) | | | |
| Streaming Quality | 1-9 | | | |
| Multi-Streaming | Three simultaneous streams, two with H-264, one with MJPEG Stream | | | |
| Brightness / Sharpness | Variable 0~100 | | | |
| Gain Control | Auto / Fixed 8~102db | | | |
| Orientation | Horizontal Mirror / Vertical Flip | | | |
| Text Overlay | Time / Date / Camera / Custom OSD | | | |
| Masking | 3 user defined masking areas | | | |
| **Network** | | | | |
| Network Interface | RJ-45,10/100Base-t, IPV4/IPV6 | | | |
| Network Protocols | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP<br>Unicast and Multicast supported | | | |
| Recording Simultaneous | Micro SD/HCSD, Remote FTP, TCP/UDP CMS, RTSP | | | |
| Compliance | Onvif v2.2 (Profile S) | | | |
| RTSP Video | Standard RFC2326, Support Quicktime / VLC Player | | | |
| Alarm/PTZ Control | Alarm 1 in/1 out, RS485 | | | |
| Audio Input/Output | 1/1 | | | |
| Audio Compression | G711 A-Law, G711 U-Law, RAW_PCM | | | |
| **General** | | | | |
| Operating Temperature | 14°F ~ 131°F | | | |
| Operating Humidity | 10% - 85% Max. | | | |
| Input Voltage | DC12V/PoE Class 3 | | | |
| Dimensions | 141x78x65mm | 112 x ø130mm (IP66) | 53mm x ø100mm (IP66) | 264mm x ø83mm (IP66) |
| Weight | 3.63lb | 1.87lb | 0.66lb | 1.8lb |

iPac IP Systems
Digital Video Recorders
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iPac IP Systems

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

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# iPac 1.3 Mega Pixel Cameras

## iPac MEG 1.3

iPac 1.3 Mega Pixel Cameras feature Advanced Exview 1.3 Mega Pixel CCD. iPac 1.3 Mega Pixel series is a superior Megapixel solution with H.264 compression network camera that built-in tons of features such as SD card slot, POE, mechanical IR and two-way communication. With the latest H.264 compression, it provides low bandwidth streaming and reduced storage without compromising in image quality. Mechanical IR cut filter function allows the camera to operate effectively in low light environment or even in total darkness for 24-hour surveillance.

### Features:
• 1/3" Exview 1.3 Mega Pixel CCD
• H.264 video compression
• Supports Multi-stream
• Mechanical Day/Night Function
• 1.3 mega pixel resolution
  (1280 x 960)
• Two-way communication
• Support multi-streaming
• Built-in mini SD Card

ONVIF

1.3 | Mechanical IR-Cut Filter | 2 WAY

POE | SD | H.264
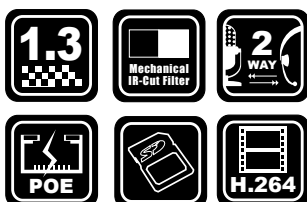
**1.3 Mega Pixel**

**200% Zoom**     **500% Zoom**

## BN5002M-A
iPac Series 1.3 Mega Pixel Box Camera

## BN5009M-A
iPac Series 1.3 Mega Pixel
Vandal Proof Dome Camera

## BN5035M
iPac Series 1.3 Mega Pixel Bullet Camera

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## Specifications:

| Model Number | BN5002M-A | BN5009M-A | BN5035M |
|---|---|---|---|

| **Camera** | | | |
|---|---|---|---|
| Image Sensor | 1/3" Exview 1.3 Mega Pixel CCD | | |
| Resolution | 1280 x 920 /22fps | | |
| Minimum Illumination | 0.02 Lux@ F1.2 | 0.02 Lux@ F1.2 | 0 Lux (IR On) |
| IR LEDs | N/A | N/A | 12pcs 850nm, 65-82ft |
| Day/Night | True Day & Night with ICR Filter | | |
| Electronic Shutter | Auto/User 1/5 - 1/50,0000; 50/60Hz software selectable | | |
| Video Output | BNC 75 Ohm, Digital out | | |
| Lens | N/A | 4-9mm | 4-9mm |
| **Video** | | | |
| Compression | H-264 High Profile (Support Baseline Profile) /a MJPEG | | |
| Bitrate (CBR/VBR) | Stream1 50Kbps - 12Mbps<br>Stream2 10Kbps - 6Mbps<br>Stream3 (MJPEG Fixed) | | |
| Streaming Quality | 1-9 | | |
| Multi-Streaming | Three simultaneous streams, two with H-264, one with MJPEG Stream | | |
| Brightness / Sharpness | Variable 0~100 | | |
| Gain Control | Auto / Fixed 8~102db | | |
| Orientation | Horizontal Mirror / Vertical Flip | | |
| Text Overlay | Time / Date / Camera / Custom OSD | | |
| Masking | 3 user defined masking areas | | |
| **Network** | | | |
| Network Interface | RJ-45,10/100Base-t, IPV4/IPV6 | | |
| Network Protocols | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP<br>Unicast and Multicast supported | | |
| Recording Simultaneous | Mini SD/HCSD, Remote FTP, TCP/UDP CMS, RTSP | | |
| Compliance | Onvif v2.2 (Profile S) | | |
| RTSP Video | Standard RFC2326, Support Quicktime / VLC Player | | |
| Alarm/PTZ Control | Alarm 1 in/1 out, RS485 | | |
| Audio Input/Output | 1/1 | | |
| Audio Compression | G711 A-Law, G711 U-Law, RAW_PCM | | |
| **General** | | | |
| Operating Temperature | 14°F ~ 131°F | | |
| Operating Humidity | 10% - 85% Max. | | |
| Input Voltage | DC12V/PoE Class 3 | | |
| Dimensions | 141 x 78 x 65mm | ø130mm x 112mm (IP66) | ø130mm x 112mm (IP66) |
| Weight | 3.63lb | 1.87lb | 1.87lb |

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# iPac WDR series Pixim DPS cameras

**iPac WD**

Powered by **PIXIM** SEAWOLF

iPac WD Cameras incorporate Pixim DPS technology and the Seawolf and Nightwolf DSP. Global Electronic Shutter, Progressive Scan, and full D1 resolution are just some of the many benefits and exclusive features of iPac WD with Pixim DPS technology. Ideal color imaging for common lighting challenges - Dark, Mixed, Bright, Indoor.

## Features:
- 1/3" Pixim DPS, Seawolf
- Global Electronic Shutter
  - Reduces motion artifacts
- H.264 Video Compression
- Multi Stream
- Dynamic Range > 120db
- 2 way Audio
- SD card
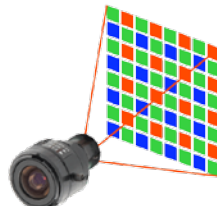
**Typical Analog Sensor Compromises Exposure**

**DPS - Optimizes Exposure**

**ONVIF**

D1 | SEAWOLF WIDE DYNAMICS | Mechanical IR-Cut Filter | 2 WAY

POE | SD | H.264
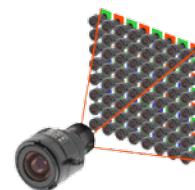
**D1 Resolution**

**200% Zoom**        **500% Zoom**

## BN2002WDRIP
iPac Series WDR Box Camera

## BN2009WDRVAIRIP
iPac Series WDR
Vandal Proof Dome Camera

## BN2035WDRIRIP
iPac Series WDR Bullet Camera

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**iPac IP Systems**

**Digital Video Recorders**

**PTZ & Matrix Systems**

**Security Cameras**

**Security Monitors**

**Covert Cameras**

**Security Accessories**
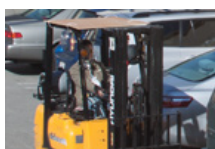
## Specifications:

| Model Number | BN2002WDRIP | BN2009WDRVAIRIP | BN2035WDRIRIP |
|---|---|---|---|



| **Camera** | | | |
|---|---|---|---|
| Image Sensor | | 1/3" Pixim DPS | |
| Digital Signal Processor | | Seawolf | |
| Resolution | | D1/30fps,CIF/30fps,QCIF/30fps | |
| Minimum Illumination | 0.1Lux@ F1.2 | 0 Lux (IR On) | 0 Lux (IR On) |
| IR LEDs | N/A | 12pcs 850nm, 65-82ft | 12pcs 850nm, 65-82ft |
| Electronic Shutter | | Auto/User 1/5 - 1/50,0000 | |
| Video Output | | BNC 75 Ohm, Digital out | |
| Lens | N/A | 2.8-10mm | 2.8-10mm |
| **Video** | | | |
| Compression | | H-264 High Profile (Support Baseline Profile) /a MJPEG | |
| Bitrate (CBR/VBR) | | Stream1 50Kbps - 12Mbps<br>Stream2 10Kbps - 6Mbps<br>Stream3 (MJPEG Fixed) | |
| Streaming Quality | | 1-9 | |
| Multi-Streaming | | Three simultaneous streams, two with H-264, one with MJPEG Stream | |
| Brightness / Sharpness | | Variable 0~100 | |
| Gain Control | | Auto / Fixed 8~102db | |
| Orientation | | Horizontal Mirror / Vertical Flip | |
| Text Overlay | | Time / Date / Camera / Custom OSD | |
| Masking | | 3 user defined masking areas | |
| **Network** | | | |
| Network Interface | | RJ-45,10/100Base-t, IPV4/IPV6 | |
| Network Protocols | | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP<br>Unicast and Multicast supported | |
| Recording Simultaneous | | Mini SD/HCSD, Remote FTP, TCP/UDP CMS, RTSP | |
| Compliance | | Onvif v2.2 (Profile S) | |
| RTSP Video | | Standard RFC2326, Support Quicktime / VLC Player | |
| Alarm/PTZ Control | | Alarm 1 in/1 out, RS485 | |
| Audio Input/Output | | 1/1 | |
| Audio Compression | | G711 A-Law, G711 U-Law, RAW_PCM | |
| **General** | | | |
| Operating Temperature | | 14°F ~ 131°F | |
| Operating Humidity | | 10% - 85% Max. | |
| Input Voltage | | DC12V/PoE Class 3 | |
| Dimensions | 141 x 78 x 65mm | ø130mm x 112mm (IP66) | 141 x 78 x 65mm (IP66) |
| Weight | 3.63lb | 1.87lb | 1.87lb |

# iPac Plus series Effio-e Cameras

## iPac Plus

iPac Plus Cameras feature Sony Effio-e, which has useful features like high color reproduction, high S/N ratio, and high resolution. With Effio-e DPS, iPac Plus Cameras are able to capture crystal-clear surveillance videos, and have higher sensitivity when compared to traditional CCTV cameras, with its 960H CCD image sensor. Like all other iPac series camera, iPac Plus also include all standard features such as two-way audio communication, POE, SD card slot, alarm in/out and the latest H.264 compression which provides low bandwidth streaming and reduced storage without compromising in image quality.

**Features:**
- 1/3" Sony CCD, Sony Effio-e
- Effio-e for advance image processing
- H.264 video compression
- D1 30fps real time recording
- Multi-Streaming CBR/VBR
- Two-way audio communication
- Audio compression: G711
- Built-in Mini SD Card slot

**ONVIF**

**D1    SONY EFFIO    Mechanical IR-Cut Filter    2 WAY**

**POE    H.264**
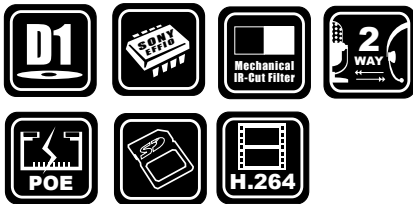
**D1 Resolution**
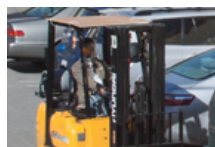
**200% Zoom    500% Zoom**

## BN2002IP
iPac Plus Series Box Camera

## BN2009IRIP
iPac Plus Series Indoor IR Dome Camera

## BN2009AVAIRIP
iPac Plus Series Vandal Proof Outdoor IR Dome Camera

## BN2035IRIP
iPac Plus Series Outdoor Bullet Camera

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## Specifications:

| Model Number | BN2002IP | BN2009IRIP | BN2009AVAIRIP | BN2035IRIP |
|---|---|---|---|---|

| **Camera** | | | | |
|---|---|---|---|---|
| Image Sensor | 1/3" Sony CCD | | | |
| Digital Signal Processor | New Sony Effio-e | | | |
| Resolution | D1/30fps,CIF/30fps,QCIF/30fps | | | |
| Minimum Illumination | 0.1 Lux@ F1.2 | 0 Lux (IR On) | 0 Lux (IR On) | 0 Lux (IR On) |
| IR LEDs | N/A | 12pcs 850nm, 65-82ft | 12pcs 850nm, 65-82ft | 12pcs 850nm, 65-82ft |
| Day/Night | True Day & Night with ICR Filter | | | |
| Electronic Shutter | Auto/User 1/5 - 1/50,0000; 50/60Hz software selectable | | | |
| Video Output | BNC 75 Ohm, Digital out | | | |
| Lens | N/A | 2.8 - 10mm | 2.8 - 10mm | 2.8 - 10mm |
| **Video** | | | | |
| Compression | H-264 High Profile (Support Baseline Profile) /a MJPEG | | | |
| Bitrate (CBR/VBR) | Stream1 50Kbps - 12Mbps<br>Stream2 10Kbps - 6Mbps<br>Stream3 (MJPEG Fixed) | | | |
| Streaming Quality | 1-9 | | | |
| Multi-Streaming | Three simultaneous streams, two with H-264, one with MJPEG Stream | | | |
| Brightness / Sharpness | Variable 0~100 | | | |
| Gain Control | Auto / Fixed 8~102db | | | |
| Orientation | Horizontal Mirror / Vertical Flip | | | |
| Text Overlay | Time / Date / Camera / Custom OSD | | | |
| Masking | 3 user defined masking areas | | | |
| **Network** | | | | |
| Network Interface | RJ-45,10/100Base-t, IPV4/IPV6 | | | |
| Network Protocols | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP<br>Unicast and Multicast supported | | | |
| Recording Simultaneous | Micro SD/HCSD, Remote FTP, TCP/UDP CMS, RTSP | | | |
| Compliance | Onvif v2.2 (Profile S) | | | |
| RTSP Video | Standard RFC2326, Support Quicktime / VLC Player | | | |
| Alarm/PTZ Control | Alarm 1 in/1 out, RS485 | | | |
| Audio Input/Output | 1/1 | | | |
| Audio Compression | G711 A-Law, G711 U-Law, RAW_PCM | | | |
| **General** | | | | |
| Operating Temperature | 14°F ~ 131°F | | | |
| Operating Humidity | 10% - 85% Max. | | | |
| Input Voltage | DC12V/PoE Class 3 | | | |
| Dimensions | 141x78x65mm | 112 x ø130mm | 53mm x ø100mm (IP66) | 264mm x ø83mm (IP66) |
| Weight | 3.63lb | 1.87lb | 0.66lb | 1.8lb |

**iPac IP Systems**

**Digital Video Recorders**

**PTZ & Matrix Systems**

**Security Cameras**

**Security Monitors**

**Covert Cameras**

**Security Accessories**

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# BN1009M/PTZ22

## iPac Series 2 Mega Pixel 22x Zoom PTZ Camera

### Features:
- 1/4" CMOS Sensor
- H.264 video compression, supports Multi-stream
- 255 Preset Points
- 22x Optical Zoom
- Audio compression: G723.1/6.3kbps
- High resolution 1920 x 1080 @22fps progressive scan
- RS-485 for external device control (Pan/Tilt/Zoom)
- Built-in web server and network interface
- IP66 protective housing, 2 Alarm input

### Specifications:

| Camera | |
|---|---|
| Image Sensor | 1/4" CMOS Sensor |
| Resolution | 1920 X 1080 30fps |
| Angle of View | 55°-2.9° |
| PTZ Speed | Pan 0.01 °~360/s, Tilt 0.01 °~360/s |
| Day/Night | True Day & Night with ICR Filter |
| Presets | 255 |
| Patterns | 6 |
| Tours | 12 |
| Alarm In/Out | 2 in / 1 out |
| Control | Onvif / RS485 |
| Video Output | BNC 75 Ohm, Digital out |
| **Video** | |
| Compression | H-264 High Profile (Support Baseline Profile) /a MJPEG |
| Bitrate (CBR/VBR) | Stream1 50Kbps - 12Mbps<br>Stream2 10Kbps - 6Mbps<br>Stream3 (MJPEG Fixed) |
| Streaming Quality | 1-9 |
| Multi-Streaming | Three simultaneous streams, two with H-264, one with MJPEG Stream |
| Brightness / Sharpness | Variable 0~100 |
| Gain Control | Auto / Fixed 8~102db |
| Orientation | Horizontal Mirror / Vertical Flip |
| Text Overlay | Time / Date / Camera / Custom OSD |
| Masking | 3 user defined masking areas |
| **Network** | |
| Network Interface | RJ-45,10/100Base-t, IPV4/IPV6 |
| Network Protocols | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP Unicast and Multicast supported |
| Recording Simultaneous | Micro SD/HCSD, Remote FTP, TCP/UDP CMS, RTSP |
| Compliance | Onvif v2.2 (Profile S) |
| RTSP Video | Standard RFC2326, Support Quicktime / VLC Player |
| Alarm/PTZ Control | Alarm 1 in/1 out, RS485 |
| Audio Input/Output | 1/1 |
| Audio Compression | G711 A-Law, G711 U-Law, RAW_PCM |
| **General** | |
| Operating Temperature | 14°F ~ 131°F |
| Operating Humidity | 10% - 85% Max. |
| Input Voltage | 24V AC (Local plug adapter supplied) /30W (Max) |
| Housing | IP66 |
| Weight | 9.9lb |

iPac
MEG

ONVIF

2.0

Mechanical IR-Cut Filter

2 WAY

360° PAN

H.264

90° TILT
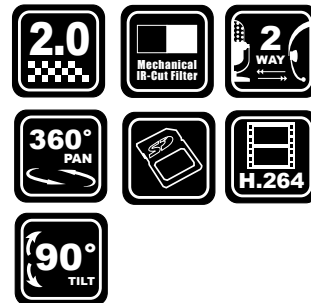
# BN1009/PTZ3GIP

## iPac Series IP Pan-Tilt-Zoom Camera

**Features:**
- 1/4" Sony Ex-View HAD CCD
- H.264 video compression
- D1 704 x 480 @ 30fps
- 560x Zoom (35x Optical, 16x Digital)
- Built-in web server and network interface
- CBR/VBR transmission rate
- 360° continuous pan
- 90° Tilt with Auto flip

## Specifications:

| Camera | |
|---|---|
| Image Sensor | 1/4" Sony Ex-View HAD CCD |
| Sync System | Internal/External (Line Lock) |
| Resolution | 560TVL |
| Minimum Illumination | 0.01 lux (Mono), 0.5 lux (Color) |
| S/N Ratio | more than 50dB |
| White Balance | Auto/Manual |
| BLC | On/Off |
| Aperture (F) | F1.6 ~ F4.2 |
| Focal Length | F=3.6~126mm |
| Pan/Tilt Speed | 0.5º ~ 160º/s |
| Preset Speed | > 300º /s |
| Rotation | Pan 360º,Tilt 0º~90º |
| Auto Flip | Rotates 180º at the bottom |
| Zoom Speed | 5s/8s (Wide/Tele) |
| **Video** | |
| Compression | H.264,MJPEG |
| Encode Speed | 20Kbps-12Mbps |
| Encode Resolution | 510 x 494 D1@30fps |
| Stream Range | VBR/CBR 5kb - 2M |
| **Interfaces** | |
| Alarm Input/Output | 1/1 |
| Network Interface | RJ-45,10/100Base-t |
| Network Protocols | RTP/RTCP, TCP/UDP, IPv4/v6, HTTP, DHCP, PPPoE, DDNS |
| SD Card | Mini SD |
| Audio Input/Output | 1/1 |
| **Environmental** | |
| Operating Temperature | -4ºF ~ 140ºF |
| Operating Humidity | 0~95% |
| **Electrical** | |
| Input Voltage | DC24V |
| Power consumption | 55W |
| **Mechanical** | |
| Weight | 5.6lbs |

**iPac Plus**

**ONVIF**

D1 | Mechanical IR-Cut Filter | 2 WAY

360° PAN | | H.264

90° TILT

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

Security Monitors

Covert Cameras

Security Accessories

**21**
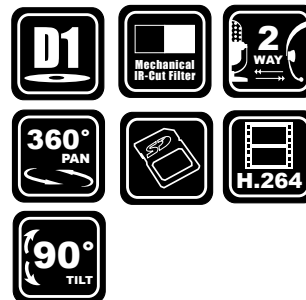
# BN1008

## iCube Wifi PIR Network IR Camera

### Features:
- 1/4" Progressive Scan CMOS
- H.264 video compression
- 1280 x 720 @ 30fps
- Built-in wifi and Bolide DDNS
- PIR for accurate motion detection
- CBR/VBR transmission rate
- IR Leds for 24/7 operation
- IR cut filter built-in

### Specifications:

| Camera | |
|---|---|
| Sensor/DSP | 1/4" Progressive Scan CMOS |
| Day/Night | ICR |
| Min. Illumination | 0.1lux @F1.2,AGC on,0 lux  with IR on |
| Lens | 3.6mm 3.0MP Fixed Lens |
| IR LED | 12 LEDs |
| IR Distance | 5~8m |
| Electronic Shutter | 1/20~1/30000s |
| **Video** | |
| Compression | H.264/MPEG4/M-JPEG |
| Image Resolution | 1280 x 720 |
| Frame Rate | 30fps(1280 x 720) |
| Bit Rate | Stream 1: 1000~6000kps Stream 2: 512~2048kbps Stream 3: 64~256kbps |
| Audio Compression | G.711 |
| **Network** | |
| Protocol | TCP/IP, HTTP, DHCP, Bolide DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, FTP, UPNP |
| Compliance | ONVIF 2.1(1.02 backward compatible) |
| PC Client and Browser | ISS, IE6.0 and above |
| Mobile phone | iOS, Android |
| WIFI | YES, WEP/WPA/WPA2 |
| **Interface** | |
| Audio Input | 1 CH 3.5mm audio interface, MIC IN/LINE IN |
| Audio Output | 1 CH 3.5mm audio interface |
| Alarm Input | 1 |
| Alarm Output | 1 |
| LAN | 1 RJ45 10M / 100M Ethernet port |
| RS-485 | 1 |
| Storage Interface | Built-in micro sd slot, up to 32GB |
| PIR | YES |
| **General** | |
| Working Temperature | -4ºF ~ 140ºF |
| Working Humidity | 0% - 90% |
| Power Supply | 12 VDC, less than 5W |
| Dimensions | 120*79*38mm |
| Weight | 500g |

❶ Wifi Antenna
❷ Alarm in/out
❸ 10/100 Network port
❹ High Power Leds
❺ 3.5mm audio interface
❻ SD card slot for recording
❼ PIR with motion alarm

**PIR alarm goes off instantly when motion is detected.**
**Great for alarm verification.**

# BN-NVR/N4/N8/N16

## Mini Network Video Recorder

### Features:
- Linux Embedded - free from PC crash and virus attack
- High throughput for iPac camera recording
- Supports Stream Profile for remote live view bandwidth control
- Supports mobile client for iPhone / iPad / Android
- Web-based configuration, live viewer, playback
- RAID 0,1,5,10 for maximum capacity or data protection
- Online GUI recording schedule
- Digital PTZ and multi-view
- Real-time digital output, Email alert and push notification on mobile
- Remote I/O solution and camera I/O integration
- Playback with 5 types of intelligent event search
- E-map with indicator & Digital watermark
- Fully compatible with iPac® series camera

## Specifications:

| | | | |
|---|---|---|---|
| Maximum Cameras | 4 | 8 | 16 |
| Playback Channels | 4 | 8 | 16 |
| Number of Drives | 2 x SATA II | 4 x SATA II | |
| Max Storage / HDD | 3TB | | |
| Raid Level | RAID 0,1 | RAID 0, 1, 5, 10 | |
| CPU | Marvell 88F6283 1.0GHz | Marvell 88F6282 1.6GHz | |
| RAM | 256MB | 512MB | |
| I/O Interface | 2 x USB 2.0 | 2 x USB 2.0 & 1 x eSATA | |
| LAN Speed | 10/100/1000 Mbps (1xRJ45) | 10/100/1000 Mbps (2xRJ45) | |
| Voltage | 100-240V | | |
| Power Consumption | 40W | 90W | |
| Dimension | 140.0 x 109.8 x 219.0 mm | 140.0 x 183.4 x 219.0 mm | |
| Device Weight | 4.67lbs | 6.55lbs | |
| Compression Format | MPEG4, M-JPEG, H.264, MxPEG (depends on IP camera) | | |
| Recording Performance | Around 60/120fps at 1.3M Total bitrate: 40Mbps | Around 240fps at 1.3M Total bitrate: 80Mbps | |
| Recording Type | Continuous record, record by schedule, event trigger record, digital input trigger record | | |
| Remote Live View Control | Live view, preset/go, PTZ, remote I/O, snapshot, multi-view, digital PTZ, advanced E-Map, bandwidth monitoring | | |
| Audio & Video Recording | Synchronized audio and video recording | | |
| POS | Live view, record, playback, and search for every transaction | | |
| Auto Backup | Automatically backup the recorded video of the date before to FTP server | | |
| Intelligent Search | General motion, missing object, foreign object, lose focus, camera occlusion | | |
| Remote Live View Connection | Live view maximum 64 connections per server at the same time | | |

**Remote Client Software Requirement**

| | |
|---|---|
| OS | Windows XP (32-bit) / Win7 (32 and 64-bit) |
| CPU | Intel Core 2 Duo, 2.6GHz |
| RAM | 1GB |
| LAN Transmission Speed | 10/100/1000 Mbps (RJ45) |
| UI | 1. Web browser: Internet Explorer 8, 9 2. Client application program 3. iPhone, iPad, Android mobile live viewer |

**iPac** MEG    **iPac** WD    **iPac** PLUS

**Network Switch**
Connect iPac to a network switch

**WAN**
Wide Area Network

**Remote Viewing with Tablet/ Smart Phone**

Android / iOS apps available for download

iPac IP Systems

Digital Video Recorders

PTZ & Matrix Systems

Security Cameras

Security Monitors

Covert Cameras

Security Accessories

**23**
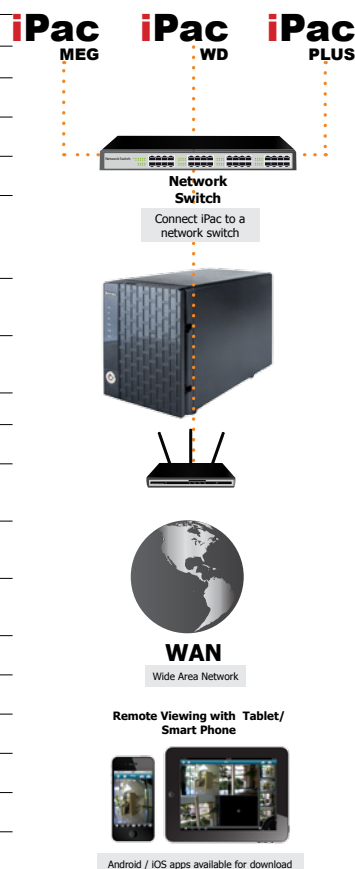
# BN-NVR/S4/S8/S16

## iPac Network Video Recorder

**Features:**
- High Profile H-264 Recording and Decoding
- Embedded iPac GUI with full mouse control
- High Definition output HDMI or VGA up to 1080p
- Internal removable HDD up two drive
- Easy to use GUI, low learning curve for users
- Multi NVR system setup from NVMS
- Remote view from Web browser
- Live view on your mobile devices iOS or Android

**Optional Features:**
- 4 Drive model for additional storage
- Industrial 19" Rack with 4 HDD
- PoE external box to give PoE devices
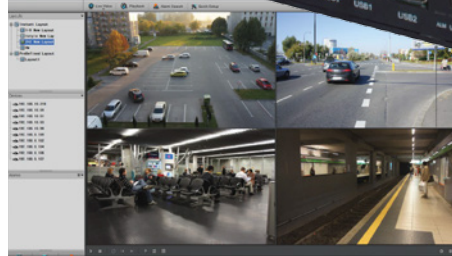
## Specifications:

| Video | |
|---|---|
| Recording | 4ch 1080P real-time video input (30 fps) Or 8ch 720P real-time video input (30fps) Or 16ch D1 real-time video input (30 fps) |
| Output Display | Single display 1080P or 2 x720P or 6 x D1 Real Time Display |
| Output Resolution | VGA or HDMI software select 1280x1024 or 1 024x768 or 1920x1 080p |
| Decoding | 1080p / 720p / 6xD1 (30fps at all resolutions) |
| Video Decoding | Up to H.264 (ISO/IEC 14496-1 0) high profile to level4.2 |
| Rate Control | VBR / CBR |
| Stream Input | D1: Standard 2MKbps D1 (main stream) @ 30fps 720P: Standard 4MKbps 720P (main stream) @ 30fps 1080P: Standard 6MKbps 1080P (main stream)@ 30fps |
| Max. Recording Stream | 24Mbits/s |
| **Storage** | |
| HDD | 2 x HDD (Optional 4 HDDs) |
| Recording Time | D1: 2Mbit/s, 2M x 3600s/8 = 675MB/H 720P: 4Mbit/s, 4M x 3600s/8/1000 = 1.8GB/H 1080P: 6Mbit/s, 6M x 3600s/8 = 3.6GB/H |
| Recording Mode | Constant Recording / Motion detection. |
| **Network** | |
| Network Control | Thermal controlled fan, silent bearing type. |
| Web Server | Embedded serer supporting Flash Video RTMP server |
| Network Protocol | RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS Client |
| Network Port | 2 x RJ45, 10/100Base-T |
| Video Output | 1 x DVI with a DVI-VGA DB15 Converter, 1 x HDMI |
| Audio Output | 1 x RCA Audio Output |
| **Physical** | |
| Operating Temperature | 14°F ~ 131°F |
| Operating Humidity | 20% - 80% Max. |
| Input Voltage | DC12V, 3A |
| Dimensions | 220x150x100mm(W*D*H) |
| Weight | 9.9lb |

**iPac** MEG  **iPac** WD  **iPac** PLUS

**Network Switch**

Connect iPac to a network switch

- Record & Manage iPac Camera
- Auto sniff for all iPac Camera
- Record up to 1080p resolution

# BN5002

## Video Server - Analog to Digital Solution

### Features:
- Embedded Encoder device
- Standard BNC input video signal
- RCA audio input and output
- Encoding Max 30fps for 1 Channel
- H-264 encoding, dual streaming
- Two way Audio talking via NVMS
- Local MicroSD memory recording
- Alarm input/output & motion detection
- Full web browser server embedded
- Onvif Complaint device

### Specifications:

| Server | |
|---|---|
| OS | Linux 2.6 |
| Flash | 16M |
| Memory | 128M |
| Image Resolution | QCIF/CIF/D1 |
| **Network** | |
| Compression | H-264 High Profile (Support Baseline Profile) |
| Resolution | 704 x 480 @ 30fps |
| Stream Range | VBR/CBR 5kb - 4M |
| Motion Detection | Built-in |
| Network Protocol | HTTP, TCP/IP, UDP/IP, RTSP, FTP, DHCP, NTP, PPoE, NTP Unicast and Multicast supported |
| Security | DES/3DES, HTTPS |
| **Interface Characteristics** | |
| Audio | G723.1/6.3kbps |
| Video | BNC 75ohm |
| Alarm | 1 channel alarm in/out |
| SD Card | micro SD, up to 32GB |
| **Electrical Characteristics** | |
| Power | DC12V |
| Power Consumption | 420 mamps |

## Sample Setup

**RG59 Coax Cable**

**Cat5 Network Cable**

**Analog Camera**

Existing analog camera to digital

**Audio In/Out**

Supports Two-way Audio

**NVMS/NVR/NAS**

**iPac IP Systems**

**Digital Video Recorders**

**PTZ & Matrix Systems**

**Security Cameras**

**Security Monitors**

**Covert Cameras**

**Security Accessories**

# BN-ND

## iPac HD Network Decoder

**Features:**
- Embedded Decoder device: Decode H-264 up to High-Profile
- Display output HDMI or VGA
- Supports Max 1080p display
- Live decoding of IP Devices
- Software setup for cycle display layout
- Show 1, 4 or 6 live devices at once



## Software Setup

**Auto Detect decoding devices on LAN Full GUI setup, local test layout view required only to setup device.**



## Sample Setup



### LAN

Local Area Network
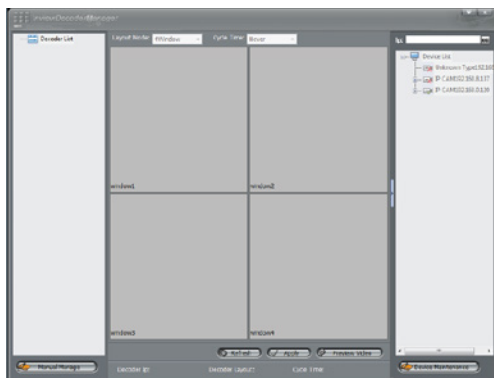
**Supports up to 6 cameras decode at the same time**

# DIGITAL VIDEO RECORDERS







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Security
Monitors

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# SVR9004HD, SVR9008HD

## 960H H.264 Real Time Recording DVR

**Features:**
- Real time H.264 compression video data
- 960 x 480 Live viewing resolution
- 960H real time recording
- Bolide DDNS built-in
- Motion alarm and video loss alarm
- Multiple record mode
- System self-recovery after power loss
- Supports IR remote control and PTZ control
- Backup HDD data via USB 2.0 port
- VGA output and HDMI support
- Free DDNS service from Bolide
- Supports iPhone, Android

SVR9000HD/CHD series DVR support up to 700 TV lines per analog security camera. The only DVR can record your surveillance video in real-time at true HD resolution with your analog security cameras!

**Connection Diagram**

Internet / WAN

Router

LAN / Local Area Network
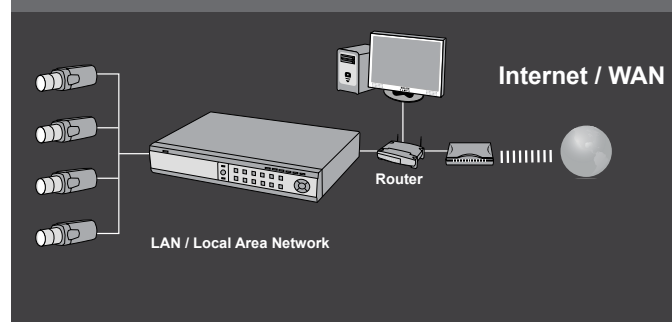
| Model Number | SVR9004HD | SVR9008HD |
|---|---|---|
| Image Compression | H.264 | |
| Video System | NTSC / PAL | |
| Operating System | Linux Embedded | |
| Video Input | 4CH input BNC | 8CH input BNC |
| Video Output | 1CH output BNC | 1CH output BNC |
| Audio Input/Output | 4CH input / 1CH output BNC | 8CH input / 1CH output BNC |
| Display Resolution | 960 x 480 @ 30fps Real Time | |
| Display Mode | Single / Quad / S.E.Q. | Single / Quad / Nine / S.E.Q. |
| Record Resolution | D1 Mode: 360x240 (CIF) / 720x240 (HD1) / 720x480 (D1)<br>960H Mode: 480x240 (WCIF) / 960x240 (WHD1) / 960x480 (WD1) | |
| Record Frame Rate | 30fps @ D1 and 960H (each channel) | |
| Record Mode | Continuous / Manual / Motion Detection / Alarm Activated | |
| Playback Channel | 1 - 4 Ch | 1 - 8 Ch |
| Playback Speed | 30fps @ D1 and 960H (each channel) | |
| Sensor & Alarm In/Out | 4CH sensor input / 1CH alarm out | 8CH sensor input / 1CH alarm out |
| Network | Static, DHCP, Bolide DDNS | |
| HDD Interface | 1 SATA HDDs, up to 4TB | |
| Multiplex Operation | Live Display / Record / Playback / Backup and Network | |
| USB | 2 x USB (Mouse and Backup) | |
| PTZ Control | Built-in RS485, support Pelco P&D | |
| Mobile Surveillance | Support Windows Mobile, Symbian, iPhone, Blackberry and Android OS | |
| VGA | 800x600 / 1024x768 / 1280x1024 / 1440x900 / 1920x1080 | |
| HDMI | 1080p | |
| Power | 12VDC 2A | |
| Dimension | 12.5" x 9.3" x 2.4" | |

# SVR9016HD

## 960H H.264 Real Time Recording DVR

**Features:**
- Real time H.264 compression video data
- 960 x 480 Live viewing resolution
- 960H real time recording
- Bolide DDNS built-in
- Motion alarm and video loss alarm
- Multiple record mode
- System self-recovery after power loss
- Supports IR remote control and PTZ control
- Backup HDD data via USB 2.0 port
- VGA output and HDMI support
- Free DDNS service from Bolide
- Supports iPhone, Android
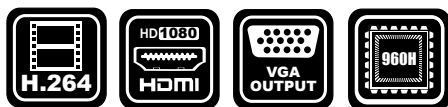
| Model Number | SVR9016HD |
|---|---|
| Image Compression | H.264 |
| Video System | NTSC / PAL |
| Operating System | Linux Embedded |
| Video Input | 16CH input BNC |
| Video Output | 2CH output BNC |
| Audio Input/Output | 16CH input / 2CH output BNC |
| Display Resolution | 960 x 480 @ 30fps Real Time |
| Display Mode | Single / Quad / Nine / Sixteen with S.E.Q. |
| Record Resolution | D1 Mode: 360x240 (CIF) / 720x240 (HD1) / 720x480 (D1)<br>960H Mode: 480x240 (WCIF) / 960x240 (WHD1) / 960x480 (WD1) |
| Record Frame Rate | 30fps @ D1 and 960H (each channel) |
| Record Mode | Continuous / Manual / Motion Detection / Alarm Activated |
| Playback Channel | 1 - 16 Ch |
| Playback Speed | 30fps @ D1 and 960H (each channel) |
| Sensor & Alarm In/Out | 16CH sensor input / 1CH alarm out |
| Network | Static, DHCP, Bolide DDNS |
| HDD Interface | 2 SATA HDDs, up to 4TB |
| Multiplex Operation | Live Display / Record / Playback / Backup and Network |
| USB | 2 x USB (Mouse and Backup) |
| PTZ Control | Built-in RS485, support Pelco P&D |
| Mobile Surveillance | Support Windows Mobile, Symbian, iPhone, Blackberry and Android OS |
| VGA | 800x600 / 1024x768 / 1280x1024 / 1440x900 / 1920x1080 |
| HDMI | 1080p |
| Power | 12VDC 5A |
| Dimension | 15" x 12.5" x 2" |

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# SVR9008CHD, SVR9016CHD
## 960H H.264 Recording DVR

**Features:**
- H.264 compression video data
- 960 x 480 Live viewing resolution
- 960H/D1 recording selectable
- Bolide DDNS built-in
- Motion alarm and video loss alarm
- Multiple record mode
- System self-recovery after power loss
- Supports IR remote control and PTZ control
- Backup HDD data via USB 2.0 port
- VGA output and HDMI support
- Free DDNS service from Bolide
- Supports iPhone, Android

### Connection Diagram

Internet / WAN

Router

LAN / Local Area Network
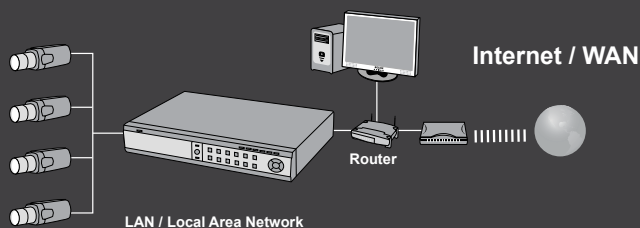
| Model Number | SVR9008CHD | SVR90016CHD |
|---|---|---|
| Image Compression | H.264 | |
| Video System | NTSC / PAL | |
| Operating System | Linux Embedded | |
| Video Input | 8CH input BNC | 16CH input BNC |
| Video Output | 1CH output BNC | 1CH output BNC |
| Audio Input/Output | 4CH input / 1CH output BNC | 4CH input / 1CH output BNC |
| Display Resolution | 960 x 480 @ 30fps Real Time | |
| Display Mode | Single / Quad / Nine / S.E.Q. | Single / Quad / Nine / Sixteen with S.E.Q. |
| Record Resolution | D1 Mode: 360x240 (CIF) / 720x240 (HD1) / 720x480 (D1)<br>960H Mode: 480x240 (WCIF) / 960x240 (WHD1) / 960x480 (WD1) | |
| Record Frame Rate | 30fps@CIF/WCIF, 12fps@D1/HD1, 10fps @ WD1/WHD1 | |
| Record Mode | Continuous / Manual / Motion Detection / Alarm Activated | |
| Playback Channel | 1 - 8 Ch | 1 - 16 Ch |
| Playback Speed | 30fps@CIF/WCIF, 12fps@D1/HD1, 10fps @ WD1/WHD1 | |
| Sensor & Alarm In/Out | 4CH sensor input / 1CH alarm out | 8CH sensor input / 1CH alarm out |
| Network | Static, DHCP, Bolide DDNS | |
| HDD Interface | 1 SATA HDDs, up to 4TB | |
| Multiplex Operation | Live Display / Record / Playback / Backup and Network | |
| USB | 2 x USB (Mouse and Backup) | |
| PTZ Control | Built-in RS485, support Pelco P&D | |
| Mobile Surveillance | Support Windows Mobile, Symbian, iPhone, Blackberry and Android OS | |
| VGA | 800x600 / 1024x768 / 1280x1024 / 1440x900 / 1920x1080 | |
| HDMI | 1080p | |
| Power | 12VDC 2A | |
| Dimension | 12.5" x 9.3" x 2.4" | |

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# SVR9000S/MO

## "S-Box" Series Mobile DVR

**Features:**
- H.264 Compression
- Real time Recording and Playback
- USB2.0 flash drive or SD Card backup
- Optional 3G and GPS
- Ideal for use in car, 9-32VDC Power with low power consumption

**Specification:**

| | |
|---|---|
| Model No. | SVR9000s/T4MO |
| Image Compression | H.264 |
| Video Standard | NTSC |
| Video Input | 4 BNC 1.0 Vp-p 75Ω |
| Video Output | 1 x BNC |
| Max. Recording Resolution | 120fps @ 704x480 |
| Audio Input | 4 inputs / 1 outputs |
| Audio Compression bit rate | 8kHz 16bit ADPCM |
| Alarm IN/Out | 4 IN / 2 OUT |
| HDD Interface | 2.5 inch SATA HDD |
| Backup | USB2.0 Flash Drive, Network, SD Card |
| Power Source | DC9-32VDC, 10-15W |
| Dimensions | 8.6" x 8.2" x 2.8" |

H.264    USB    SHOCKPROOF

AUDIO RECORDING    DDNS

# SVR3900S

## H.264 All-in-one Digital Video Recorder

**Features:**
- 7" High Resolution TFT Display
- H.264 video compression with DVD Quality (D1) recording
- Supports SATA up to 1TB Hard Drive
- Adjustable recording quality
- USB easy backup and audio recording

**Specification:**

| | |
|---|---|
| Model No. | SVR3900S |
| Image Compression | H.264 |
| Display | 7" TFT |
| Video Standard | NTSC |
| Video Input | 4 BNC 1.0 Vp-p 75Ω |
| Video Output | 1 x BNC |
| Max. Recording Resolution | 30fps D1, 60fps HD1, 120fps CIF |
| Audio Input | 1 input / 1 output |
| Audio Compression bit rate | 8kHz 16bit ADPCM |
| Video Mode | Always / Schedule / Manual / Motion |
| Alarm Type | Motion / Video Loss / HDD Space |
| HDD Interface | SATA HDD up to 1024GB |
| Backup | USB2.0 Flash Drive, Network |
| Power Source | DC12V 3A, 10-15W |
| Dimension | 9.3" x 9.3" x 6.3" |

H.264    USB    7" TFT

AUDIO RECORDING    DDNS

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# Memo

# PTZ & MATRIX SYSTEMS

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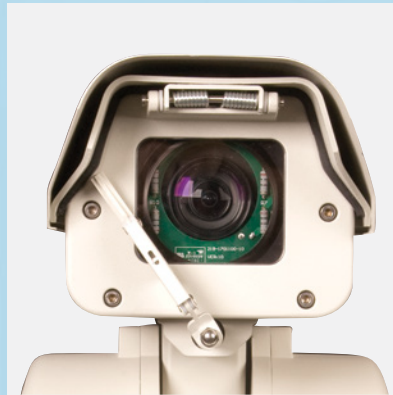
# BC2002/AT88 "EVO"
## 560x Zoom Advanced Positioning Camera

### Features:
- OSD Menu for easy programming
- Built-in Mechanical IR-Cut Filter
- Programmable schedule functions
- 220 presets with title
- Auto running functions:
  4 panning, 4 sequences and 4 patterns
- Temperature and Coordinate display
- 9 Language OSD Menu (Spanish, German, Italian etc.)
- Multi-protocols built-in Pelco D/P/C, Bosch, AD, VCL etc.
- -85° to 50° Tilt, 360° Continuous Pan

### Specifications:

| • Camera Specifications | |
|---|---|
| Sync Systems | Internal |
| Image Sensor | 1/4" Sony Exview HAD CCD |
| Scan System | 2:1 Interface |
| Resolution | 560TVL, 0.01 lux (B/W), 0.5 lux (Color) |
| Iris | Auto/Manual |
| Focus | Auto/Manual |
| Zoom Ratio | 560x (Optical 35x, Digital 16x) |
| Focal Length | F = 3.6mm ~ 126mm |
| Aperture (F) | F1.6 ~ F4.2 |
| BLC/White Balance | Auto |
| S/N Ratio | More than 50dB |
| Video Output | 1.0±0.2Vp-p BNC |
| Interface | RS485/RS422, Bi-phase, Manchester |
| Multi-Protocol | Pelco D/P/C, AD, VCL, Vicon, Kalatel, Diamond etc. |
| • Electrical | |
| Input Power | 24VAC, 50/60Hz |
| Power Consumption | 60W |
| Working Voltage | 24VAC, 21W (Heater, Fan) |
| Protection | Video, Data & Power Protection up to 4000V Lightning Strike Resistant |
| • Environment | |
| Housing | IP66 Rated |
| Protection | Sun Shield, Auto Running Defroster, Heater, Fan, Wiper |
| Operating Temp. | -40°F~140°F |
| Operating Humidity | 0-90% |
| Operation Wind Speed | 54MPH |
| Withstand Wind Speed | 80MPH |
| Withstand Rain Fall | 1/8" Min |
| Water Jet | Available with relay out |
| • Mechanical | |
| Horizontal Movement | Continuous 360° pan |
| Vertical Movement | -85° - 50° tilt |
| Manual Pan Speed | 0.1° - 70° /s |
| Manual Tilt Speed | 0.1° - 50° /s |
| Preset Speed | 140°/s |
| Preset Accuracy | 0.1° |
| Net Weight | 22 lbs |
| Max load | 12 lbs |

### Mounting Options:
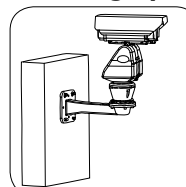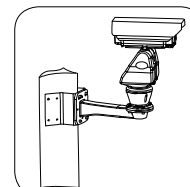
**Wall Mount**          **Corner Mount**
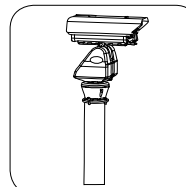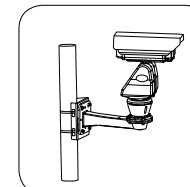
**Pedestal Mount**          **Pole Mount**

# BC1009/PTZ3G

3rd Generation High Speed PTZ Camera

## Features:

- Heavy-Duty Outdoor PTZ Camera
- 360° pan and tilt range (Auto flip)
- 35x Optical Zoom / 16x Digital Zoom
- 1/4" Sony Exview HAD CCD with 520 TV Lines Resolution
- Scheduled action setting (4 schedules)
- Aluminum-Alloy construction
- Day/Night Mode
- Built-in multiple protocol
- OSD Menu
- Weather-Proof with IP66 rated housing

## Specifications:

| | |
|---|---|
| Sync System | Internal/External (Line Lock) |
| Image Sensor | 1/4" Sony Ex-View HAD CCD |
| Resolution | 560 TVL |
| Sensitivity | 0.01 lux (Mono), 0.5 lux (Color) |
| Iris | Auto/Manual |
| Focus | Auto/Manual |
| Zoom | 560x (35x Optical, 16x Digital) |
| Video Output | 1.0 Vp-p / 75Ω |
| S/N | More than 50dB |
| White Balance | Auto/Manual |
| BLC | Off/Auto |
| Aperture (F) | F1.6~F4.2 |
| Focal Length | F=3.6~126mm |
| Pan/Tilt Speed | 0.5º ~ 160º/s |
| Preset Speed | > 300º /s |
| Rotation | Pan 360º,Tilt 0º~90º |
| Auto Flip | Rotates 180º at the bottom |
| Zoom Speed | 5s/8s (Wide/Tele) |
| Privacy Masking | N/A |
| Alarm In / Out | 7 In / 2 Out |
| Temperature | -4ºF ~ 140ºF |
| Humidity | 0~95% |
| Protection Grade | IP66 Outdoor Housing |
| Power Consumption | 50W |
| Receiver | Built-in |
| Video Output | Female BNC |
| Communication Data | RS485/422, Coaxial Bi-phase, Manchester Code |
| Baud Rate | 2400/4800/9600/19200bps |
| ID Range | 1 ~ 254 |
| Weight | 5.6 lbs |

**This camera features snap-on installation. No extra cable or screws required.**

## Mounting Options:

**Corner Mount**          **Pole Mount**          **Parapet Mount**

## Protocol Options:

- Pelco - C
- RS - 422

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# BC1009/PTZWD

## Wide Dynamic Range High Speed PTZ Camera

**Features:**
- Heavy Duty Outdoor PTZ Camera
- 360° pan and tilt range (Auto flip)
- 36x Optical Zoom / 12x Digital Zoom
- 1/4" Sony Ex-View CCD with 520 TV Lines Resolution
- Scheduled action setting (4 schedules)
- Aluminum-Alloy construction
- Wide Dynamic Range built-in with IR cut-filter
- Built-in multi protocol
- OSD Menu
- Weather-Proof with IP66 rated housing

**Specifications:**

| | |
|---|---|
| Sync System | Internal |
| Image Sensor | 1/4" Sony Ex-View HAD CCD |
| Resolution | 560 TVL |
| Sensitivity | 1/60 s mode: 1.4 lux (typical) (F1.6, 50 IRE) 1/4 s mode: 0.01 lux (typical) (F1.6, 50 IRE) |
| Iris | Auto/Manual |
| Focus | Auto/Manual |
| Zoom | 432x (36x Optical, 12x Digital) |
| Video Output | 1.0 Vp-p / 75Ω |
| S/N | More than 50dB |
| White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| BLC | Off/Auto |
| Wide Dynamic Range | On/Off |
| Privacy Masking | 24 |
| Aperture (F) | F1.6~F4.5 |
| Focal Length | F=3.4~122.4mm |
| Pan/Tilt Speed | 0.5º ~ 160º/s |
| Preset Speed | > 300º /s |
| Rotation | Pan 360º,Tilt 0º~90º |
| Auto Flip | Rotates 180º at the bottom |
| Electronic Shutter | 1/1 to 1/10,000 s, 22 steps |
| White Balance | Auto, ATW, Indoor, Outdoor, One-push, Manual |
| Alarm In / Out | 7 In / 2 Out |
| Temperature | -4ºF ~ 140ºF |
| Humidity | 0~95% |
| Protection Grade | IP66 Outdoor Housing |
| Power Consumption | 50W |
| Receiver | Built-in |
| Video Output | Female BNC |
| Communication Data | RS485/422 |
| Baud Rate | 2400/4800/9600/19200bps |
| ID Range | 1 ~ 254 |
| Weight | 5.6 lbs |

**This camera features snap-on installation. No extra cable or screws required.**

**Mounting Options:**

Corner Mount          Pole Mount          Parapet Mount

**Protocol Options:**
- Pelco - C
- RS - 422

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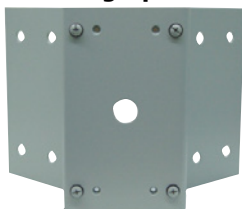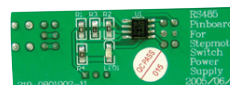
# BC1009/PTZAMT

### High Speed Wide Dynamic PTZ Camera with Motion Tracking

**Features:**
• Heavy Duty Outdoor PTZ Camera
• 360° pan and tilt range (Auto flip)
• 36x Optical Zoom / 12x Digital Zoom
• 1/4" Sony Ex-View CCD with 520 TV Lines Resolution
• Scheduled action setting (4 schedules)
• Aluminum-Alloy construction
• Wide Dynamic Range built-in with IR cut-filter
• Built-in Motion Tracking
• OSD Menu
• Weather-Proof with IP66 rated housing

**Specifications:**

| | |
|---|---|
| Sync System | Internal |
| Image Sensor | 1/4" Sony Ex-View HAD CCD |
| Resolution | 560 TVL |
| Sensitivity | 1/60 s mode: 1.4 lux (typical) (F1.6, 50 IRE)<br>1/4 s mode: 0.01 lux (typical) (F1.6, 50 IRE) |
| Iris | Auto/Manual |
| Focus | Auto/Manual |
| Zoom | 432x (36x Optical, 12x Digital) |
| Video Output | 1.0 Vp-p / 75Ω |
| S/N | More than 50dB |
| White Balance | Auto, ATW, Indoor, Outdoor, Manual |
| BLC | Off/Auto |
| Wide Dynamic Range | On/Off |
| Privacy Masking | 24 |
| Aperture (F) | F1.6~F4.5 |
| Focal Length | F=3.4~122.4mm |
| Pan/Tilt Speed | 0.5º ~ 160º/s |
| Preset Speed | > 300º /s |
| Rotation | Pan 360º,Tilt 0º~90º |
| Auto Flip | Rotates 180º at the bottom |
| Electronic Shutter | 1/1 to 1/10,000 s, 22 steps |
| White Balance | Auto, ATW, Indoor, Outdoor, One-push, Manual |
| Alarm In/Out | 7 in / 2 out |
| Temperature | -4ºF ~ 140ºF |
| Humidity | 0~95% |
| Protection Grade | IP66 Outdoor Housing |
| Power Consumption | 50W |
| Receiver | Built-in |
| Video Output | Female BNC |
| Communication Data | RS485/422, Coaxial Bi-phase, Manchester Code |
| Baud Rate | 2400/4800/9600/19200bps |
| ID Range | 1 ~ 254 |
| Weight | 5.6 lbs |

**This camera features snap-on installation. No extra cable or screws required.**

**Mounting Options:**

Corner Mount          Pole Mount          Parapet Mount

**Protocol Options:**
• Pelco - C
• RS - 422

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Security Monitors

Covert Cameras

Security Accessories

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# BC1009/IDIR  "WALL-I"

### Heavy Duty Outdoor Night Vision PTZ Camera

**Features:**
- Heavy Duty Outdoor PTZ Camera
- 360° pan and tilt range (Auto flip)
- Built-in High Power IR: Range up to 200ft
- 35x Optical Zoom / 16x Digital Zoom
- 1/4" CCD with 520 TV Lines Resolution
- Scheduled action setting (4 schedules)
- Aluminum-Alloy construction
- Day/Night Mode
- Wiper function
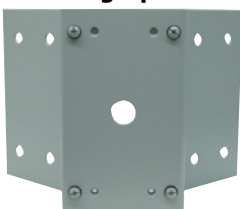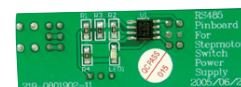- Built-in multiple protocol
- OSD Menu
- Weather-Proof with IP66 rated housing

## Specifications:

| | |
|---|---|
| Image Sensor | 1/4" Sony Ex-view HAD CCD |
| Synchronization | Internal |
| Video Output | 1.0Vp-p / 75 Ω |
| Horizontal Resolution | 560TVL |
| S/N Ratio | ≥ 50dB |
| Minimum illumination | 0 Lux (Led On) |
| Focal & Iris | Auto / Manual |
| Electronic Shutter | 1~1/10,000s,  1/3~1/10,000s |
| Protective Housing | IP66 Rated |
| Zoom ratio | 35x Optical Zoom, 16x Digital Zoom |
| White Balance | Auto |
| BLC | ON/OFF |
| Aperture | F1.6 ~ F4.2 |
| Focal Length | F=3.6 ~126mm |
| Panning range | 360° continuous |
| Pan Speed | 0.4°-80°/sec |
| Tilt Range | -90°~90° |
| Tilt Speed | 0.4°-60°/sec |
| Communication | Multi-protocol |
| Baud Rate | 2400, 4800, 9600, 19200 |
| Controls | Pan/Tilt |
| Presets | 128 preset positions |
| Auto Pan | ON/OFF |
| Alarm In/Out | 4 In / 1 Out |
| Shock | ≥ 4G |
| Power Source | IR: AC24V (45W) |
| Operating Temperature | -40°F-140°F |
| Weight | 13.5 lbs |
| IR Effective Range | Up to 200ft |

## High Power Infrared Range up to 200ft

**Mounting Options:**

**Wall Mount Bracket - \*Optional**

**Protocol Options:**
- **Pelco - C**
- **RS - 422**
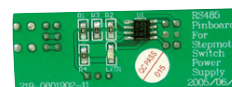
## BC1009/PTZMINI-S

### 10x Zoom Mini Speed Dome Camera

**Specifications:**

| | |
|---|---|
| Sync System | Internal |
| Image Sensor | 1/4" SONY (Interline transfer) CCD |
| Resolution | 550 TVL Color |
| Sensitivity | 0.01 lux at F1.2 |
| Iris/Focus | Auto/Manual |
| Zoom Ratio | 10x Optical Zoom |
| Scan System | 2:1 Interlacing |
| S/N | More than 50dB |
| WB/BLC | Auto/Manual |
| Focal Length | f=3.8~38mm |
| Electronic Shutter Speed | 1/4 ~ 1/10,000 sec, 20 Steps |
| Pan/Tilt Speed | 0.5° ~ 120°/s |
| Zoom Speed | 1.67sec (Wide to Tele) |
| Communication Interface | RS485 |
| AE Control | Auto, Manual, Priority Mode, Bright |
| Video Output | 1.0 Vp-p (Sync Negative) and Y/C |
| Baud Rate | 2400/4800/9600 |
| ID Range | 1~254 |
| Size | 6.5"(W) x 6"(H) |
| Power | 12VDC, 2.5A |

**Wall Mount**   **Corner Mount**   **Pole Mount**

**Features:**
- 1/4" SONY (Interline Transfer) CCD
- 550 TV Lines Resolution
- 0.1 lux/F1.2
- 10x Optical Zoom
- Built-in On-Screen-Display
- Supports Multi-Protocol Pelco D, Pelco P and more
- RS485 Communication bus
- IP67 Rated Weather-proof Housing

## BC1009/PTZMINI-E

### 10x Zoom Mini Speed Dome Camera

**Specifications:**

| Camera | |
|---|---|
| Sync System | Internal |
| Image Sensor | 1/4" SONY Ex-view HAD CCD |
| Resolution | 560 TVL Color, 600 TVL Mono |
| Sensitivity | 0.0001 lux at F1.6 |
| Iris /Focus | Auto/Manual |
| Zoom Ratio | 10x Optical Zoom |
| Scan System | 2:1 Interlacing |
| S/N | More than 52dB |
| Focal Length | f=3.6~44.3mm |
| WDR | On/Off (128x) |
| Total Pixel | 811 x 508 |
| Electronic Shutter Speed | 1/60 ~ 1/10,000 sec |
| **Operational** | |
| Pan/Tilt Speed | Pan: 0.2° ~ 200°/s \| Tilt: 0.4° ~ 200°/s |
| Pan/Tilt Range | 360°, 0° - 90°, Auto Flip |
| Preset | 128 |
| PTZ Function | Preset / Tour / Scan / Pattern |
| Communication Interface | RS485 |
| Baud Rate | 2400/4800/9600/19200bps |
| Protocol | Pelco D/P, Samsung |
| **Physical** | |
| Size | 6.5"(W) x 6"(H) |
| Power | 12VDC, 5W |
| Operating Temperature | -40°F-140°F |
| Operating Humidity | 0-75% |
| Weight | 2.8lbs |

6"

6.5"

**Features:**
- 1/4" SONY Ex-view HAD CCD
- Resolution: 560TVL (Color), 600TVL(Mono)
- 0.0001 lux/F1.6
- 10x Optical Zoom
- Built-in On-Screen-Display
- Supports Multi-Protocol Pelco D, Pelco P and more
- IR cut-filter built-in
- WDR/Privacy Zone/Motion Detection Built-in
- 360° continuous pan with auto-flip

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# DR-3208

## Matrix Video Switcher / System Controller

DR-3208 Matrix unit supports 32 video input and 8 monitor outputs. 5 units can be combined for system expansion, and it allows connections for up to 8 keyboards and 1 external computer for multiple controlling sites. It supports powerful alarm handling, 1024 recent alarm recording, 30 tours sequence switch with up to 6400 steps switching and 16 groups tour switch. Macro command function enables the system to work conveniently.

### Features:

Up to 8 Keyboards & 1 Multi-media PC controlling a variety of
tour patterns provide the most effective monitoring
• Sequence tour Switch: 30 tours available, up to 640 steps for each tour
• Group tour Switch: 16 groups available, with maximum 64 steps for each group
• Each Camera Sequence Scan is independent
• Powerful Alarm Handling
• 5 Matrix units can be combined for system expansion
• Video Synchronizing makes the video switching easy

### Specifications:

| | |
|---|---|
| Video Inputs - Standard | 32 |
| Video Inputs - Looping | 32 |
| Video Outputs | 8 |
| Alarm Inputs | 32 |
| Alarm Outputs | 4 |
| Bandwidth (-3dB) | 8MHz |
| S/N Ratio | More than 52dB |
| Differential Gain | < 0.6% |
| Differential Phase | 1.1 |
| Insert Gain | < ± 0.5dB |
| Adjustment Channel Isolation Degree | > 50dB |
| Adjustment Channel Crosswalk | < -40dB |
| Synchronous Nonlinear Distortion | 1% |
| Luminance Nonlinear Distortion | 1.5% |
| Video Cable Distance | Minimum cable with 75 Ω |
| Impedance | RG-59/U : less than 300mm |
| Input Voltage | AC110V |
| Power Consumption | < 30W |
| Operating Temperature | 0°C ~ +40°C |
| Operating Humidity | 0% - 90% |

**Connection Diagram:**



1-8 Monitor

1-32 Cameras

RS485
Alarm IN/OUT

DR3208

Video Loop-out Box

PC Based DVR / Standalone DVR

### External Device Interface:

| | |
|---|---|
| Video Inputs and Monitor Outputs | BNC |
| Looping Video Connection | Two 34-pin ribbon connector |
| Keyboards | Four 6-pin RJ-11 ports to connect keyboards |
| RS485 Port | Removable screw terminal block to connect groups of 8 |
| | RS485 Cable (0.5mm twisted-pair), can be up to 1200m long |
| RS-232 Port | For external PC or control interface: 9-pin D-type connector |
| Alarm Inputs | Removable screw terminal connectors |
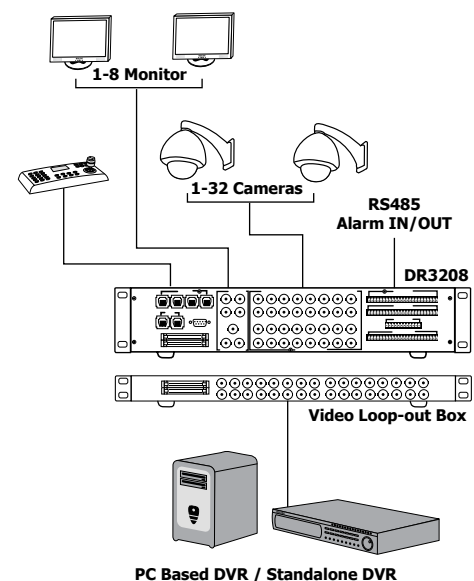
# BE-8000

## Advanced Network Matrix Video Switcher /  System Controller

**Features:**
- Built-in modularized high-capability MPU; Up to 32 matrixes integrate over Ethernet
- Compact design; High-capability of inputs and outputs
- Low power consumption; less than 120W for single bay full duty running
- High stability and reliability
- Hot swappable; Plug and play for video input/output card; High Stability
- Low channels crosstalk
- Modularized design; keyboard, distributor, alarm input and alarm output are independent modules cooperate over Ethernet
- Detect and assign IP to devices automatically; Real time non-delay remote control
- Independent internal video channel for system setting. Keyboard and PC settings are available
- 64 channels Chinese and English character overlay
- Power sync switching; Adjustable sync phase (multiple of 60 degree)
- Isolated video channels; high anti-interference capability
- Ethernet hierarchy; Flexible and intelligent system integration
- Single Matrix bay configuration: Max 272 channel inputs; Max 64 channel outputs; Max input configuration: 272 X 16; Max output configuration: 224 X 64
- Four Matrix bay configuration: Max 1024 channel inputs; up to  64 channel outputs; Max input configuration & Max output configuration: 1024 X 64
- Max 4096 video input through Ethernet.

**Specifications:**

| | |
|---|---|
| Output Impedance | 75 (BNC Ω) |
| Insert Gain | 0.5dB |
| S/N Ratio Weighted | 52dB |
| Adjacent Channel Isolation Degree Weighted | 60dB |
| Adjacent Channel Crosstalk Weighted | 50dB |
| Frequency Characteristics | 50Hz 8MHz |
| DC Level Video Signal | About 0.4 0.6V |
| KB/Receiver Controlling Time | 20ms (Typical) |
| Switch | Complete switching of cross-point matrix |
| Switching Speed | 20ms (NTSC) |
| Video Input | BNC 16 1024 Video Inputs |
| Video Output | BNC 16 64 Video Outputs |
| RS232 Port | One RS232 Local PC Port |
| Baud Rate bps | 9600/19200/38400 |
| Ethernet Port | 10M |
| OSD Display | Date/Time, Monitor Title, Camera No. and Title |
| Character | Common English Characters |
| Synchronous Phase | Power Sync, Adjustable Sync Phase (multiple of 60 degree) |
| Data Storage | Various settings and configuration data can last at least 5 years when power-off |
| Dimension | 312mm x 483mm x 420mm |
| Power Supply | 220VAC/50Hz or110VAC/60Hz |
| Weight | 33 Lbs |

**Connection Diagram:**

**Video Blade Design**

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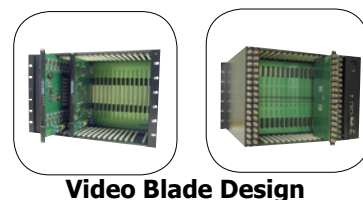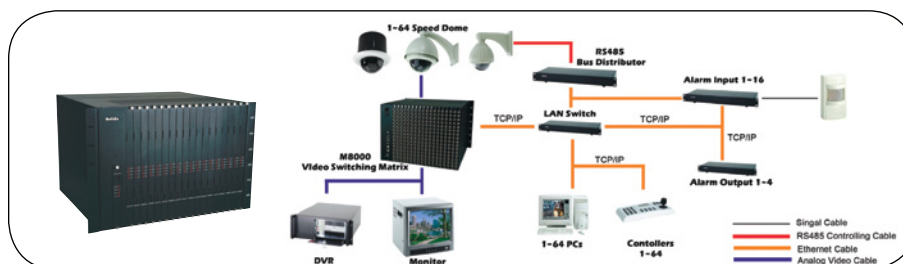
# BE-485BUS/8, BE-485BUS/16

## RS485 Bus Channel Distributor

**Features:**
• TVS 1500W lightning proof and 1500mA surge proof
• Highly insulated input and output channels
• RS485 control, baud rate 2400, 4800, 9600bps
• 16-channel outputs, each channel supports transmitting distance
 of 1200m (0.56mm twisted-pair wire)
• 4, 8, 12 channels output optional

**Specifications:**

| | |
|---|---|
| Power Supply | DC12V 2A |
| Power Consumption | less than 24W |
| Receiving Controlling Mode | RS485, RS232 |
| Transmitting Mode | RS485 |
| Max Transmitting Distance | 1200mm (0.5mm Twisted Pair) |
| Operating Temperature | 32°F ~ 122°F |
| Storage Temperature | 14°F ~ 122°F |
| Dimensions | 430x210x44mm |
| Weight | 6 lbs |

# BE-DR-AD300, BE-DR-AD300/16

## Coaxial Converter

**Features:**
• Receiving Interface: Built-in RS485/RS422, Manchester, BI-Phase
Code
• Transmitting output (BNC, with video and controlling data)
• With power supply / receiving red LED and signal transmitting
green LED
• Multi-protocol options available by setting DIP switches such as:
Pelco-D, Pelco-P, Kalatel,
 Panasonic, VCL, Bosch, American Dynamics and more...
• 120Ω jumper in receiving interface
• 400V video lightning resistant

**Specifications:**

| Model | BE-DR-AD-300 | BE-DR-AD-300/16 |
|---|---|---|
| Output Channel (s) | 1 | 16 |
| Supply Voltage DC | DC9V +20% | DC12V +20% |
| Power | less than 1W | less than 6W |
| Weight | .5 lbs | 4.5 lbs |
| Receiving Controlling Mode | RS485/RS422/Manchester/BI-Phase | |
| Receiving Baud Rate | 4800/9600/19200bps | |
| Receiving Baud Rate | 32K bps (Manchester / BI-Phase) | |
| Transmitting Mode | Coaxial Video & Control Data | |
| Max. Transmission Distance | 300m (0.5mm Twisted Pair Cable) | |
| Operating Temperature | 32°F ~ 122°F | |
| Storage Temperature | 14°F ~ 122°F | |
| Dimension (mm) | 5.6" x 2.66" x 1.36" | 19" x 6.3" x 2" |

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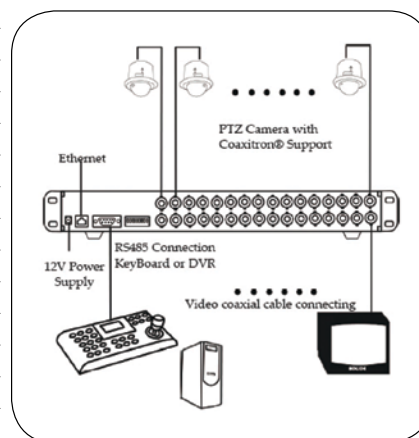
# BE-KB03E

## 2 Axis Computerized Controller

**Features:**
- Compact Design, attractive appearance
- Control Pan/Tilt , Focus, Zoom, Iris
- 1200m maximum range
- Controls up to 32 PTZ Cameras

**Specifications:**

| | |
|---|---|
| Communication Port | RS-485 |
| Baud Rate | 2400/4800/9600bps |
| System Settings | One 8-bit DIP Switcher |
| P/T/Z Control | left/right: up/down, Iris: Open/Close |
| | Focus: far/near, Zoom: in/out |
| | Save/Call Preset |
| Joystick | Two Axis (Left, Right) |
| Power Supply | DC 12V 500mA |
| Dimension | 7.4" x 3.82" x 2.76" |

# BE-KB02

## 3 Axis Computerized Controller

**Features:**
- 3-Axis Joystick control (PTZ)
- Compact, Ergonomic Design
- Various Speed for PTZ control
- LCD Screen with backlight
- Multi Protocol Built-in

**Specifications:**

| | |
|---|---|
| Communication Port | RS-485/RJ45 |
| Baud Rate | 2400/4800/9600bps |
| System Settings | DIP Less OSD Software |
| P/T/Z Control | left/right: up/down |
| | Iris: up/down |
| | Focus: far/near |
| | Zoom: in/out |
| | Save/Call Preset/Tour/Pattern |
| Joystick | Three Axis (Left, Right, Zoom In/Out) |
| Power Supply | DC 12V 200mA |
| Dimension | 8.6" x 7.1" x 2.2" |

# BE-KB08

## 3 Axis Computerized Controller

**Features:**
- LCD Menu for easy operation
- Controls up to 255 Bolide Devices
- 3-axis joystick design
- Camera function setup: Address, Presets, Auto Tour, Auto Scan...
- USB communication for Matrix control
- RJ45 connection for BE-8000

**Specifications:**

| | |
|---|---|
| Communication Port | Interface: RS-485, USB Ethernet |
| | Connector: RJ11, RS232, DB9 |
| | Baud Rate: 2400/4800/9600/19200bps |
| System Settings | One 8-bit DIP Switch |
| Display | 128x64 Dot Matrix, 21x8 Characters |
| P/T/Z Control | left/right: up/down, Iris: up/down |
| Switch/Control | Focus: far/near, Zoom: in/out |
| | Save/Call Preset, Auto-Scan, Pattern, Tour |
| Joystick | Three Axis (Left, Right, Zoom) |
| Power Supply | DC 9V |
| Power Consumption | 4.5W |
| Dimension | 12" x 7.6" x 2.2" |

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# Memo

# SECURITY CAMERAS

**Tiger-i**

**RED-i**

**EAGLE-i**

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# Tiger-i

Bolide's Tiger-i cameras are high resolution color surveillance camera powered by latest IT image sensor. These cameras deliver excellent images for monitoring and recording at 600 TV Lines Resolution. With built-in Mechanical IR-Cut Filter , these cameras able to offer clear images 24 hours a day.
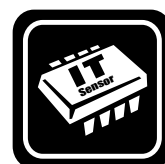
## BC1609/IROD/T

### Outdoor Eyeball IR Camera with IT Sensor

**Features:**
• Advanced IT Image Sensor
• 600 TV Lines Resolution
• 0 lux IR On
• IR cut-filter built-in
• 3.6mm Mega Pixel Lens
• Advanced Day/Night auto switching mode
• 24 Leds with 65ft effective distance

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" IT Image Sensor |
| Total Pixel | 768(H) x 494(V) |
| Signal System | NTSC |
| Sensing Area | 4.8mm x 3.6mm |
| Sync. System | Internal |
| Resolution | 600 TVL |
| Lens | 3.6mm Mega Pixel Lens |
| White Balance | ATW |
| S/N Ratio | More than 50dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 24 units, 850nm, 65ft |
| IR Cut-filter | Built-in |
| Gamma Correction | 0.45 |
| Power | 12VDC, Less than 5W |
| Operating Temperature | -4°F ~ 122°F |
| Weight | 0.77 lbs |

INFRARED    3 AXIS    Mechanical IR-Cut Filter

# BC6609/28/T

## Outdoor IR Vari-focal Camera with IT Sensor

### Specifications:

| | |
|---|---|
| Imaging Sensor | 1/3" IT Image Sensor |
| Total Pixel | 768(H) x 494(V) |
| Signal System | NTSC |
| Sensing Area | 4.8mm x 3.6mm |
| Sync. System | Internal |
| Resolution | 600 TVL |
| Lens | 2.8-12mm Mega Pixel Lens |
| White Balance | ATW |
| S/N Ratio | More than 50dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 35 units, 850nm, 90ft |
| IR Cut-filter | Built-in |
| Gamma Correction | 0.45 |
| Power | 12VDC, Less than 5W |
| Operating Temperature | -4°F ~ 122°F |
| Weight | 1.15 lbs |

### Features:
- Advanced IT Image Sensor
- 600 TV Lines Resolution
- 0 lux IR On
- IR cut-filter built-in
- 2.8-12mm Mega Pixel Lens
- Advanced Day/Night auto switching mode
- 35 Leds with 90ft effective distance

# BC6609/IRODVA28/T

## Outdoor IR Vari-focal Eyeball Camera with IT Sensor

### Specifications:

| | |
|---|---|
| Imaging Sensor | 1/3" IT Image Sensor |
| Total Pixel | 768(H) x 494(V) |
| Signal System | NTSC |
| Sensing Area | 4.8mm x 3.6mm |
| Sync. System | Internal |
| Resolution | 600 TVL |
| Lens | 2.8-12mm Mega Pixel Lens |
| White Balance | ATW |
| S/N Ratio | More than 50dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 21 units, 850nm, 65ft |
| IR Cut-filter | Built-in |
| Gamma Correction | 0.45 |
| Power | 12VDC, Less than 5W |
| Operating Temperature | -4°F ~ 122°F |
| Weight | 2.4 lbs |

### Features:
- Advanced IT Image Sensor
- 600 TV Lines Resolution
- 0 lux IR On
- IR cut-filter built-in
- 2.8-12mm Mega Pixel Lens
- Advanced Day/Night auto switching mode
- 21 Leds with 65ft effective distance

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# BC6635/T

## Outdoor IR Bullet Camera with IT Sensor

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" IT Image Sensor |
| Total Pixel | 768(H) x 494(V) |
| Signal System | NTSC |
| Sensing Area | 4.8mm x 3.6mm |
| Sync. System | Internal |
| Resolution | 600 TVL |
| Lens | 3.6mm Mega Pixel Lens |
| White Balance | ATW |
| S/N Ratio | More than 50dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 24 units, 850nm |
| IR Distance | 65ft |
| IR Cut-filter | Built-in |
| Gamma Correction | 0.45 |
| Infrared Switching | 3 Lux |
| Power | 12VDC, Less than 5W |
| Operating Temperature | -4°F ~ 122°F |
| Weight | 0.65 lbs |

**Features:**
- Advanced IT Image Sensor
- 600 TV Lines Resolution
- 0 lux IR On
- IR cut-filter built-in
- 3.6mm Mega Pixel Lens
- Advanced Day/Night auto switching mode
- 24 Leds with 65ft effective distance

# BC6636/28T

## Outdoor IR Vari Focal Bullet Camera with IT Sensor

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" IT Image Sensor |
| Total Pixel | 768(H) x 494(V) |
| Signal System | NTSC |
| Sensing Area | 4.8mm x 3.6mm |
| Sync. System | Internal |
| Resolution | 600 TVL |
| Lens | 2.8-12mm |
| White Balance | ATW |
| S/N Ratio | More than 50dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 36 units, 850nm |
| IR Distance | 100ft |
| IR Cut-filter | Built-in |
| Gamma Correction | 0.45 |
| Infrared Switching | 3 Lux |
| Power | 12VDC, Less than 5W |
| Operating Temperature | -4°F ~ 122°F |
| Weight | 0.85 lbs |

**Features:**
- Advanced IT Image Sensor
- 600 TV Lines Resolution
- 0 lux IR On
- IR cut-filter built-in
- 2.8-12mm Mega Pixel Lens
- Advanced Day/Night auto switching mode
- 36 Leds with 100ft effective distance

# Effio - "Enhanced Features and Fine Image Processor"

"Effio" is the latest Sony signal processor which realizes high resolution, high S/N ratio and high color reproduction for security cameras. In the field of the security cameras, the visibility is thought to be most important. And also high sensitivity and higher pixel counts are the most demanded elements. Born out of the market needs the Sony "Effio" was created as the highest level of technology for CCD cameras. With the combination of signal processing technology the "Effio" system is matched with all new CCD sensors to give achieve these results.

## High Resolution 700 TVL
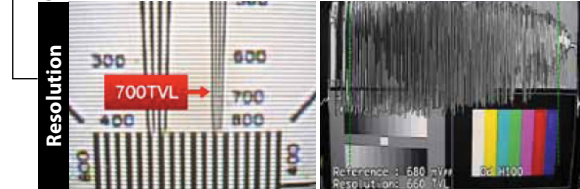
With the advanced technology, effio cameras have higher horizontal resolution of 700TVL by CCD image sensor.

## Excellent color reproduction
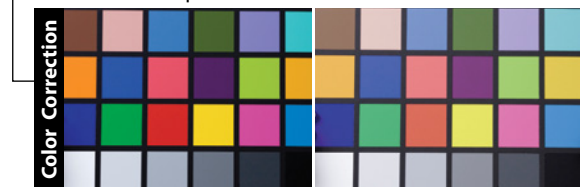
Excellent color reproduction under variety of light sources [1,800K to 10,500K]

## Excellent Noise Reduction

Standard    Regular DNR    Effio DNR

Noise reduction is a function that reduces the image noise in order to improve the image quality of the camera. In particular, it reduces the noise which is generated under low-brightness shooting conditions and other high-gain states.

## Built-in WDR
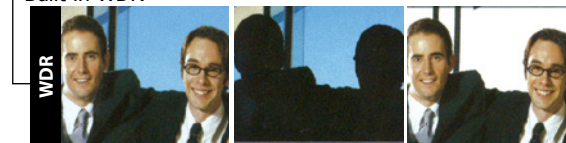
The Wide Dynamic Range (WDR) is a function that it can acquire natural images with fewer blown out highlights and blocked up shadows by combining a multiple number of images, shot at different exposure times, using digital signal processing.

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# BC8002EFO
## EFFIO High Resolution Box Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony 760H Double Speed CCD |
| Pixel | 811(H) x 508(V) |
| Syn. System | Line Lock / Internal Sync. |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 52dB |
| Resolution | Color 610TVL, B/W 630TVL |
| Minimum Illumination | Color 0.1 lux, B/W 0.01 lux, Sense-up 0.001 |
| Wide Dynamic Range | 256x (53dB) |
| Dynamic Noise Reduction | 3D/2D |
| E-zoom | 1x ~ 256x |
| BLC | WDR/BLC/Off |
| Sense Up | Auto (Limit 2x ~ 512x) / Off |
| Flickerless | On/Off |
| Digital Day & Night Mode | Color / B&W / Auto / Ext / Schedule |
| Video Output | 1.0Vp-p, 75 Ohm, BNC |
| White Balance | ATW/AWB/AWC/Manual/Outdoor |
| Lens Mount | C / CS Mount |
| Power | 12VDC/24VAC |
| Dimension | 2.5" x 2.3" x 4.85" (WxHxL) |
| Operating Temperature | 14°F - 122°F |
| Operating Humidity | -4°F - 150°F |

**Features:**
- 1/3" Super Hi-Resolution CCD
- New Sony Effio DSP
- Up to 610TVL Color / 630TVL B&W
- Low lux rating at 0.001 lux
- 2D/3D Noise Reduction
- Built-in Motion Detection/Privacy Masking
- Wide Dynamic Technology 53dB 256x
- E-zoom (1x~256x)
- OSD control for simple setup

# BC8002EFO/E
## EFFIO-e High Resolution Box Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD ll Hi-sensitive CCD |
| Pixel | NTSC 470k |
| Syn. System | Power / Internal Sync. |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 50dB |
| Resolution | Color 650TVL, B/W 700TVL |
| Minimum Illumination | Color 0.3 lux, B/W 0.001 lux |
| Day/Night Switch | Auto/Color/B&W/External Control |
| D/N Switch Time | 0s ~ 255s Optional |
| Privacy Zone | 1~8 zones |
| Motion Detection | 4 zones |
| Image Color | 0-255 adjustable |
| BLC/HLC | On/Off |
| Image Brightness | 0-255 adjustable |
| Video Output | 1.0Vp-p, 75 Ohm, BNC |
| White Balance | ATWB/Push/User1/User2/Color-Rolling/Manual |
| 3D DNR | Y/C, Y, C (3 modes) |
| Contrast | 0-255 adjustable |
| Sharpness | 0-255 adjustable |
| Power | 12VDC/24VAC |
| Power Consumption | 2.0W |
| Operating Temperature | 14°F - 122°F |
| Operating Humidity | -4°F - 150°F |

**Features:**
- 1/3" Sony Super HAD Hi-sensitive CCD
- New Sony Effio-e DSP
- Up to 650TVL Color / 700TVL B&W
- Low lux rating at 0.001 lux
- 2D/3D Noise Reduction
- Built-in Motion Detection/Privacy Masking
- Wide Dynamic Technology
- BLC/HLC Built-in
- OSD control for simple setup

# BC6736/28EFO

## EFFIO-e Outdoor IR Bullet Vari-Focal Camera

### Specifications:

| | |
|---|---|
| Image Sensor | Sony Effio-E DSP, 1/3" 960H CCD |
| Effective Pixels | NTSC:976(H)x494(V) |
| Horizontal Resolution | 700TVL |
| Lens | 2.8~12mm Mega Pixel Lens |
| Signal System | NTSC |
| Sync. System | Internal Sync. |
| Sensor Area | 4.8mmx3.6mm |
| Video Output: | 1.0Vp~p75Ω |
| S/N Ratio: | More than 50dB (AGC OFF) |
| Gamma Characteristic: | 0.45 |
| White Balance: | Auto Tracking White Balance |
| Shutter Speed: | 1/50(1/60)~100,000Sec. |
| Weather-proof: | IP66 |
| Minimum Illumination: | 0Lux (Infrared Lamps Turn on) |
| IR Leds: | 48pcs 850nm, 125ft |
| Working Temperature: | -14°F - 122°F |
| Storage Temperature: | -4°F - 140°F |
| Power Requirement: | DC12V |
| Power Consumption | Less than 5W (IR On) |
| Weight: | 1.7lbs |

### Features:
• 1/3" 960H CCD with Sony Effio-E DSP
• 700TVL High Resolution
• 2.8~12mm Mega Pixel Lens
• 48pcs IR Leds, up to 125ft IR distance
• 2D DNR
• IP66 Weatherproof Housing

# BC6709IRODVA28EFO

## EFFIO-e Eyeball Armored Outdoor Camera

### Specifications:

| | |
|---|---|
| Image Sensor | Sony Effio-E DSP, 1/3" 960H CCD |
| Effective Pixels | NTSC:976(H)x494(V) |
| Horizontal Resolution | 700TVL |
| Lens | 2.8~12mm Mega Pixel Lens |
| Signal System | NTSC |
| Sync. System | Internal Sync. |
| Sensor Area | 4.8mmx3.6mm |
| Video Output: | 1.0Vp~p75Ω |
| S/N Ratio: | More than 50dB (AGC OFF) |
| Gamma Characteristic: | 0.45 |
| White Balance: | Auto Tracking White Balance |
| Shutter Speed: | 1/50(1/60)~100,000Sec. |
| Weather-proof: | IP66 |
| Minimum Illumination: | 0Lux (Infrared Lamps Turn on) |
| IR Leds: | 36pcs 850nm, 100ft |
| Working Temperature: | -14°F - 122°F |
| Storage Temperature: | -4°F - 140°F |
| Power Requirement: | DC12V |
| Power Consumption | Less than 5W (IR On) |
| Weight: | 2.4lbs |

### Features:
• 1/3" 960H CCD with Sony Effio-E DSP
• 700TVL High Resolution
• 2.8~12mm Mega Pixel Lens
• 36pcs IR Leds, up to 100ft IR distance
• 2D DNR Built-in
• IP66 Weatherproof Housing

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# BC6709/AVAIR28EFO

## EFFIO-e Outdoor Dome Vari Focal

**Specifications:**

| | |
|---|---|
| Image Sensor | Sony Effio-E DSP, 1/3" 960H CCD |
| Effective Pixels | NTSC:976(H)x494(V) |
| Horizontal Resolution | 700TVL |
| Lens | 2.8~12mm Mega Pixel Lens |
| Signal System | NTSC |
| Sync. System | Internal Sync. |
| Sensor Area | 4.8mmx3.6mm |
| Video Output: | 1.0Vp~p75Ω |
| S/N Ratio: | More than 50dB (AGC OFF) |
| Gamma Characteristic: | 0.45 |
| White Balance: | Auto Tracking White Balance |
| Shutter Speed: | 1/50(1/60)~100,000Sec. |
| Weather-proof: | IP66 |
| Minimum Illumination: | 0Lux (Infrared Lamps Turn on) |
| IR Leds: | 21pcs 850nm, 60ft |
| Working Temperature: | -14°F - 122°F |
| Storage Temperature: | -4°F - 140°F |
| Power Requirement: | DC12V |
| Power Consumption | Less than 5W (IR On) |
| Weight: | 2.25lbs |

**Features:**
• 1/3" 960H CCD with Sony Effio-E DSP
• 700TVL High Resolution
• 2.8~12mm Mega Pixel Lens
• 21pcs IR Leds, up to 60ft IR distance
• Day&Night Working Mode
• IP66 Weatherproof Housing

# BC6702EFO

## EFFIO-e Box High Resolution Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | Sony Effio-E DSP, 1/3" 960H CCD |
| Effective Pixels | NTSC:976(H)x494(V) |
| Horizontal Resolution | 700TVL |
| Lens Mount | C/CS Mount |
| Signal System | NTSC |
| Sync. System | Internal Sync. |
| Sensor Area | 4.8mmx3.6mm |
| OSD Functions | ATR/2D DNR/BLC/HLC/Motion Detection/Privacy |
| Video Output: | 1.0Vp~p75Ω |
| S/N Ratio: | More than 50dB (AGC OFF) |
| Gamma Characteristic: | 0.45 |
| White Balance: | Auto Tracking White Balance |
| Shutter Speed: | 1/50(1/60)~100,000Sec. |
| Minimum Illumination: | 0.01 lux |
| Working Temperature: | -14°F - 122°F |
| Storage Temperature: | -4°F - 140°F |
| Power Requirement: | DC12V/AC24V |
| Power Consumption | Less than 1.5W |
| Weight: | 0.85lbs |

**Features:**
• 1/3" 960H CCD with Sony Effio-E DSP
• 700TVL High Resolution
• 2D DNR / ATR / HLC Built-in
• OSD Built-in
• Mechanical IR Cut-filter

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**RED-i**

Bolide introduces all new Red-i™ cameras to meet the needs of today's high resolution surveillance requirements. These cameras not only feature 600 TVL in color with excellent color reproduction CCD, but also built-in different features for extreme light condition such as Digital Wide Dynamic Range (WBLC), Super Low Lux Starlight mode (0.001 lux with sense up), Digital Noise Reduction DNR) and Highlight Compensation (HLC). Other features like motion detection, and privacy masking are also built-in to maximize the control of the area. Several mounting options and models are available to fit your needs.
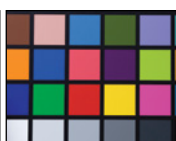
Other Camera          Excellent Color Processor          Other Camera          Digital WBLC

Other Camera          Advanced DNR          Other Day/Night Camera          Sense Up Function

# BC7002SDD12/24/R

## 600/700TVL RS-485 Professional Box Camera

### Specifications:

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | 811H x 508V |
| Resolution | Color 600TVL, Mono 700TVL |
| Minimum Illumination | Color 0.1Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000s |
| S/N Ratio | more than 50dB (AGC Off) |
| Syn. System | Internal |
| WDR | Digital WDR |
| Privacy Zone | 1-8 zones |
| D/N Switch | Auto/Color/B&W |
| D/N Switch Timing | 0s~10s |
| Image Brightness | 0~99 adjustable |
| AGC | Off/12db/24db/36db |
| HLC | On/Off |
| BLC | 0~3 adjustable |
| Motion Detection | On/Off |
| AWB | Manual/Auto/Auto Tracking |
| Sharpness | 0~49 adjustable |
| Gamma | 0.3~1.0 adjustable |
| DPC | MDPC/ADPC |
| 3D DNR | 0~5 adjustable |
| DSS | Off/x2/x4/x8/x16/x32/x64/x128/x256 |
| RS485 | Support |
| Protocol | Pelco-D, 2400/9600/14400/19200/38400 |
| Power | 12VDC / 24VAC |
| Operation Temperature | -14°F ~ 140°F |
| Operation Humidity | 20-80% |

**WDR DIGITAL WDR**   **2D/3D DNR**   **12V/24V Dual Voltage**

**Built-in OSD Control**

### Features:
- 1/3" Super HAD CCD II High resolution DSP
- Color: 600TVL, B/W: 700TVL
- 3 different day/night modes with delay time
- Motion detection
- 8 Programmable privacy masking
- Digital Wide Dynamic Range (WBLC)
- Advanced DNR (Digital Noise Reduction)
- Super Low Lux starlight mode 0.001 with sense up

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# BC7035H/12/24R

## 600/700TVL Outdoor RS485 IR Bullet Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | 811H x 508V |
| Resolution | Color 600TVL, Mono 700TVL |
| Minimum Illumination | Color 0.1Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000s |
| S/N Ratio | more than 50dB (AGC Off) |
| Syn. System | Internal |
| WDR | Digital WDR |
| Privacy Zone | 1-8 zones |
| D/N Switch | Auto/Color/B&W |
| AGC/BLC/AWB | Built-in |
| Motion Detection | On/Off |
| Sharpness | 0~49 adjustable |
| Gamma | 0.3~1.0 adjustable |
| DPC | MDPC/ADPC |
| 3D DNR | 0~5 adjustable |
| Leds | 650nm/850nm |
| Leds Effective Range | 50ft |
| DSS | Off/x2/x4/x8/x16/x32/x64/x128/x256 |
| RS485 | Support |
| Protocol | Pelco-D, 2400/9600/14400/19200/38400 |
| Power | 12VDC / 24VAC |
| Operation Temperature | -14°F ~ 140°F |
| Operation Humidity | 20-80% |

**Features:**
- 1/3" Super HAD CCD II High resolution DSP
- Color: 600TVL, B/W: 700TVL
- 3 different day/night modes with delay time
- Motion detection
- 8 Programmable privacy masking
- Digital Wide Dynamic Range (WBLC)
- Advanced DNR (Digital Noise Reduction)
- Night vision IR for night operation

# BC7009

## 600/700TVL Indoor Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | 811H x 508V |
| Resolution | Color 600TVL, Mono 700TVL |
| Minimum Illumination | Color 0.1Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000s |
| S/N Ratio | more than 50dB (AGC Off) |
| Syn. System | Internal |
| WDR | Digital WDR |
| Privacy Zone | 1-8 zones |
| D/N Switch | Auto/Color/B&W |
| Image Brightness | 0~99 adjustable |
| AGC/BLC/AWB | Built-in |
| Motion Detection | On/Off |
| Sharpness | 0~49 adjustable |
| Gamma | 0.3~1.0 adjustable |
| DPC | MDPC/ADPC |
| 3D DNR | 0~5 adjustable |
| DSS | Off/x2/x4/x8/x16/x32/x64/x128/x256 |
| Power | 12VDC / 24VAC |
| Operation Temperature | -14°F ~ 140°F |
| Operation Humidity | 20-80% |

**Features:**
- 1/3" Super HAD CCD II High resolution DSP
- Color: 600TVL, B/W: 700TVL
- 3 different day/night modes with delay time
- Motion detection
- 8 Programmable privacy masking
- Digital Wide Dynamic Range (WBLC)
- Advanced DNR (Digital Noise Reduction)
- Super Low Lux starlight mode 0.001 with sense up

# BC7009AVAIR12/24/R

## 600/700TVL Vandal Proof IR Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | 811H x 508V |
| Resolution | Color 600TVL, Mono 700TVL |
| Minimum Illumination | Color 0.1Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000s |
| S/N Ratio | more than 50dB (AGC Off) |
| Syn. System | Internal |
| WDR | Digital WDR |
| Privacy Zone | 1-8 zones |
| D/N Switch | Auto/Color/B&W |
| AGC/BLC/AWB | Built-in |
| Motion Detection | On/Off |
| Sharpness | 0~49 adjustable |
| Gamma | 0.3~1.0 adjustable |
| DPC | MDPC/ADPC |
| 3D DNR | 0~5 adjustable |
| Leds | 850nm, 50ft |
| DSS | Off/x2/x4/x8/x16/x32/x64/x128/x256 |
| RS485 | Support |
| Protocol | Pelco-D, 2400/9600/14400/19200/38400 |
| Housing | IP66 |
| Power | 12VDC / 24VAC |
| Operation Temperature | -14°F ~ 140°F |
| Operation Humidity | 20-80% |

**Features:**
- 1/3" Super HAD CCD II High resolution DSP
- Color: 600TVL, B/W: 700TVL
- 3 different day/night modes with delay time
- Motion detection
- 8 Programmable privacy masking
- Digital Wide Dynamic Range (WBLC)
- Advanced DNR (Digital Noise Reduction)
- Super Low Lux starlight mode 0.001 with sense up

# BC7009SDNVA12/24/R

## 600/700TVL Vari-focal IR Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | 811H x 508V |
| Resolution | Color 600TVL, Mono 700TVL |
| Minimum Illumination | Color 0.1Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000s |
| S/N Ratio | more than 50dB (AGC Off) |
| Syn. System | Internal |
| WDR | Digital WDR |
| Privacy Zone | 1-8 zones |
| D/N Switch | Auto/Color/B&W |
| AGC/BLC/AGC | Built-in |
| Motion Detection | On/Off |
| Sharpness | 0~49 adjustable |
| Gamma | 0.3~1.0 adjustable |
| DPC | MDPC/ADPC |
| 3D DNR | 0~5 adjustable |
| Leds | 850nm, 50ft |
| DSS | Off/x2/x4/x8/x16/x32/x64/x128/x256 |
| RS485 | Support |
| Protocol | Pelco-D, 2400/9600/14400/19200/38400 |
| Power | 12VDC / 24VAC |
| Operation Temperature | -14°F ~ 140°F |
| Operation Humidity | 20-80% |

**Features:**
- 1/3" Super HAD CCD II High resolution DSP
- Color: 600TVL, B/W: 700TVL
- 3 different day/night modes with delay time
- Motion detection
- 8 Programmable privacy masking
- Digital Wide Dynamic Range (WBLC)
- Advanced DNR (Digital Noise Reduction)
- Super Low Lux starlight mode 0.001 with sense up

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# BC7009IRODVA

## 600/700TVL Vari-focal Eyeball IR Dome Camera

**Features:**
- 1/3" Super HAD CCD II High resolution DSP
- Color: 600TVL, B/W: 700TVL
- 3 different day/night modes with delay time
- Motion detection
- 8 Programmable privacy masking
- Digital Wide Dynamic Range (WBLC)
- Advanced DNR (Digital Noise Reduction)
- Super Low Lux starlight mode 0.001 with sense up
- 3 axis eyeball style for easy installation

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD II |
| Effective Pixels | 811H x 508V |
| Resolution | Color 600TVL, Mono 700TVL |
| Minimum Illumination | Color 0.1Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000s |
| S/N Ratio | more than 50dB (AGC Off) |
| Syn. System | Internal |
| WDR | Digital WDR |
| Privacy Zone | 1-8 zones |
| D/N Switch | Auto/Color/B&W |
| Image Brightness | 0~99 adjustable |
| AGC | Off/12db/24db/36db |
| BLC | 0~3 adjustable |
| Motion Detection | On/Off |
| AWB | Manual/Auto/Auto Tracking/Lock |
| Sharpness | 0~49 adjustable |
| Gamma | 0.3~1.0 adjustable |
| DPC | MDPC/ADPC |
| 3D DNR | 0~5 adjustable |
| Leds | 650nm/850nm |
| Leds Effective Range | 50ft |
| DSS | Off/x2/x4/x8/x16/x32/x64/x128/x256 |
| RS485 | Support |
| Protocol | Pelco-D |
| Support Baud Rate | 2400/9600/14400/19200/38400 |
| Housing | IP66 |
| Power | 12VDC / 24VAC |
| Operation Temperature | -14°F ~ 140°F |
| Operation Humidity | 20-80% |

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# EAGLE-i

**"Monitoring in the dark with no IR"**

Bolide introduces the all new Eagle-i™ cameras for extreme low light conditions. With improved shutter technology and thanks to a new generation DSP, Eagle-i™ cameras create more detail and stunning pictures without the use of infrared (IR). Compared to traditional day and night cameras, the noise level of the picture is adjusted to minimum and require less light level (0.001 lux). Eagle-i™ cameras also feature up to 600 TVL resolution, DNR and WDR which delivery high quality video in any extreme light condition.

**"Monitoring in the dark with no IR"**

Eagle-i™ Camera    Infrared Camera    Day & Night Camera
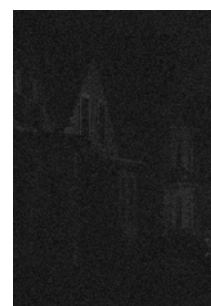
## BC7102

Eagle-i™ Super Night Vision Box Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Super HAD ll CCD |
| Sensing Area | 4.9mm x 3.7mm |
| Effective Pixels | 768H x 494V |
| Resolution | Color 600TVL |
| Minimum Illumination | Color 0.03Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000 |
| Sync System | Internal |
| Scanning Type | 2:1 Interlace Scanning |
| Video Output | 1.0Vp-p, 75 Ohm |
| S/N Ratio | > 50dB (AGC Off) |
| DWDR | Yes |
| Mechanical ICR | Yes |
| Slow Shutter | Max 128x |
| White Balance | ATW/Fluorescent/Manual |
| BLC | 48 Areas |
| Motion Detection | 48 Areas |
| DNR | 2D/3D DNR |
| Camera ID | Max Character Title |
| Lens | 3.6mm |
| Power Supplies | 12VDC |
| Power Consumption | 120mA |
| Operating Temperature | 14°F - 122°F |
| Storage Temperature | -4°F - 150°F |

**Features:**
• 1/3" Super HAD ll CCD
• 600TVL Resolution
• Advanced Starlight Sensing
• Low Lux Rating: Color 0.03, B/W 0.001
• Advanced 3D DNR for noise control
• Digital Slow Shutter, up to 128x
• Ideal for low light condition

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# BC7109

## Eagle-i™ Super Night Vision Indoor Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Super HAD ll CCD |
| Sensing Area | 4.9mm x 3.7mm |
| Effective Pixels | 768H x 494V |
| Resolution | Color 600TVL |
| Minimum Illumination | Color 0.03Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000 |
| Sync System | Internal |
| Scanning Type | 2:1 Interlace Scanning |
| Video Output | 1.0Vp-p, 75 Ohm |
| S/N Ratio | > 50dB (AGC Off) |
| DWDR | Yes |
| Slow Shutter | Max 128x |
| White Balance | ATW/Fluorescent/Manual |
| BLC | 48 Areas BLC |
| Motion Detection | 48 Areas |
| DNR | 2D/3D DNR |
| Camera ID | Max Character Title |
| Lens | 3.6mm |
| Power Supply | 12VDC |
| Power Consumption | 120mA |
| Operating Temperature | 14°F - 122°F |
| Storage Temperature | -4°F - 140°F |

**Features:**
- 1/3" Super HAD ll CCD
- 600TVL Resolution
- Advanced Starlight Sensing
- Low Lux Rating: Color 0.03, B/W 0.001
- Advanced 3D DNR for noise control
- Digital Slow Shutter, up to 128x
- Ideal for low light condition

# BC7109AVA

## Eagle-i™ Super Night Vision Vandal Proof Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD II CCD |
| Effective Pixels | 768H x 494V |
| Resolution | Color 600TVL |
| Minimum Illumination | Color 0.03Lux, Mono 0.001 Lux |
| Shutter Speed | 1/60 ~ 1/100,000 |
| Scanning System | 2:1 Interlaced Scanning |
| Sense Up | Max 128x |
| S/N Ratio | more than 50dB |
| Digital Wide Dynamic | WDR adjustable |
| Privacy Zone | 4 areas |
| AGC | On/Off |
| BLC | 48 zones |
| Motion Detection | 48 zones |
| Digital Zone | 128x |
| DNR | 2D/3D DNR |
| Sync | Internal |
| AWB | ATW/Fluorescent/Manual |
| Reverse Function | Horizontal / Vertical |
| Negative Function | Available |
| Power Supply | 12VDC/24VAC 2.5W |
| Operating Temperature | -14°F - 131°F |
| Storage Temperature | -40°F - 150°F |

## Advanced 600 TV Line Cameras

Bolide's 600TVL cameras are high resolution color surveillance camera powered by latest image sensor. These cameras deliver excellent images for monitoring and recording. With built-in Day & Night function and a low light function, these cameras are able to offer clear images 24 hours a day.

# BC1609-IRAD

### 600TVL Outdoor Eyeball IR Camera

**Features:**
- 1/3" high resolution color CCD
- 600 TV line resolution
- High power night vision LED
- LEDs effective range 75 ft
- Auto AGC, WB and BLC
- IP66 rated housing
- Great for low light outdoor application

### Specifications:

| | |
|---|---|
| Imaging Sensor | 1/3" High Resolution Color CCD |
| Effective Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 24pcs 850nm |
| IR Effective Range | 75ft |
| Lens | 3.6mm |
| Exposure Mode | EE |
| AGC | Auto |
| BLC | Auto |
| White Balance | Auto |
| Mini Focal Distance | 20CM |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC |
| Dimension | 80Ømm x 94mm |

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# BC6609-IRODVA28

## 600TVL Outdoor Eyeball Vari-Focal IR Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" High Resolution Color CCD |
| Effective Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 36pcs 850nm |
| IR Effective Range | 90ft |
| Lens | 2.8 - 12mm |
| Exposure Mode | EE |
| AGC/BLC | Auto |
| White Balance | Auto |
| Mini Focal Distance | 10CM |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC |
| Dimension | 119Ømm x 100mm |

**Features:**
- 1/3" high resolution color CCD
- 600 TV line resolution
- High power night vision LED
- LEDs effective range 90 ft
- Auto AGC, WB and BLC
- IP66 rated housing
- Vari-focal 2.8 - 12mm
- Great for low light outdoor application

# BC1609AVAIR28

## 600TVL Outdoor Vandal Proof IR Dome Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" High Resolution Color CCD |
| Effective Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 21pcs 850nm |
| IR Effective Range | 75ft |
| Lens | 2.8 - 12mm |
| Exposure Mode | EE |
| AGC/BLC/AWB | Auto |
| Mini Focal Distance | 20CM |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC |
| Dimension | 149Ømm x 99mm |

**Features:**
- 1/3" high resolution color CCD
- 600 TV line resolution
- High power night vision LED
- LEDs effective range 75 ft
- Auto AGC, WB and BLC
- Vandal Proof IP66 rated housing
- Vari-focal 2.8 - 12mm
- Great for low light outdoor application

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# BC6635

## 600TVL IR Bullet Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" High Resolution Color CCD |
| Effective Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 23pcs |
| IR Effective Range | 65ft |
| Lens | 3.6mm |
| IR Power On | CDS Auto Control |
| AGC/BLC/AWB | Auto |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC |
| Dimension | 50mm x 85mm x 60mm |

**Features:**
- 1/3" high resolution color CCD
- 600 TV line resolution
- High power night vision LED
- LEDs effective range 65 ft
- IP66 rated housing
- Great for low light outdoor application

# BC6636-28

## 600TVL IR Vari-Focal Bullet Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" High Resolution Color CCD |
| Effective Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 36pcs |
| IR Effective Range | 100ft |
| Lens | 2.8-12mm |
| IR Power On | CDS Auto Control |
| AGC/BLC | Auto |
| IR-Cut filter | Built-in |
| White Balance | Auto |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC/24VAC |
| Dimension | 78mm x 72mm x 125mm |

**Features:**
- 1/3" high resolution color CCD
- 600 TV line resolution
- High power night vision LED
- LEDs effective range 100 ft
- Dual Voltage 12VDC/24VAC
- IP66 rated housing
- Great for low light outdoor application

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# BC3635H

## 600TVL IR Bullet Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" SONY Super HAD CCD |
| Effective Pixel | 768(H) x 494(V) |
| Sensor Area | 4.9mm x 3.7mm |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 850nm, 100ft |
| Lens | 3.6mm |
| AGC/BLC/AWB | Auto |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC, 5.4W |
| Dimension | 73mm x 60mm x 88mm (WxHxD) |

**Features:**
• 1/3" Sony Super HAD CCD
• 600 TV line resolution
• LEDs effective range 100 ft
• IP66 rated housing
• Great for low light outdoor application

# BC6637

## 600TVL High Power IR LEDs Vari-Focal Bullet Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/3" High Resolution Color CCD |
| Effective Pixel | 811(H) x 508(V) |
| Shutter Speed | 1/60 ~ 1/100000s |
| S/N Ratio | More than 48dB (AGC OFF) |
| Video Output | 1.0 Vp-p, 75 ohm |
| Resolution | Color: 600TVL |
| Minimum Illumination | 0 lux (IR On) |
| Sync System | Internal |
| IR Leds | 2 High Power LEDs |
| IR Effective Range | 165ft |
| Lens | 6-60mm |
| IR Power On | CDS Auto Control |
| AGC/BLC | Auto |
| IR-Cut filter | Built-in |
| White Balance | Auto |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Operating Temperature | -14°F ~ 120°F, 20-80% |
| Power Supply | 12VDC/400mA |
| Dimension | 270mm x 93mm x 81mm |
| Weight | 800g |

**Features:**
• 1/3" high resolution color CCD
• 600 TV line resolution
• High power night vision LED
• LEDs effective range 165 ft
• IP66 rated housing
• IR cut-filter built-in for best night image
• Great for low light outdoor application

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**SEAWOLF**

## WDR – Wide Dynamic Range Cameras

Bolide's WDR cameras are high resolution color surveillance camera powered by Pixim® Seawolf. With Pixim® Wide Dynamic Range, these cameras deliver excellent images under strong back-lit lighting conditions with built-in Day & Night function and a low light function to render clear images 24 hours a day. The new Seawolf deliver accurate images in real-world scenes, night and day, even under challenging, mixed lighting condition.

**• Dark Scenes**

In very dark scenes, Seawolf avoids image hot spots and captures clear highlight and shadow detail in black and white.

**• Dimly Lit Scenes**
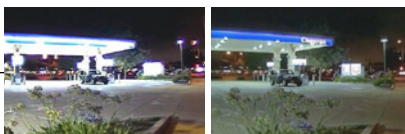
Camera powered by Seawolf capture critical details and true color in difficult, dimly lit scenes, avoiding color fade common with analog CCD cameras.

**• Mix Lighting Scenes**
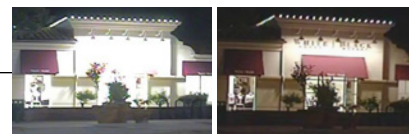
CCD Cameras can't adjust to highlights and lowlights in the same scene, a common scenario in security applications where light sources are directly visible to the camera. Seawolf powered cameras capture the entire picture even in the most challenging, mixed lighting conditions.

## BC2002WDSA

### Wide Dynamic Range Seawolf Box Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | Pixim® Seawolf |
| Effective Pixels | 768(H) x 548(V) |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 690 HTVL Effective |
| Min. Illumination | 0.1 lux / F1.2, 0.012 lux / F1.2 (Slow Shutter) |
| Shutter Speed | 1/60 ~ 1/100,000 sec |
| S/N Ratio | Dynamic Range 102dB, Typical 120dB Max |
| Sync System | Internal / Line Lock |
| ICR Filter | Built-in |
| Lens | C/CS Mount |
| White Balance | ATW / AWB |
| BNC Video Output | CVBS 1.0 Vp-p / 75Ω |
| IRIS Control | DC / Video |
| Power Supply | 12VDC/24VAC |
| Power Consumption | 4W Max |
| Size | 2.3" x 1.4" x 1.2" (WxDxH) |
| Weight | 500g |
| Operating Temperature | 14°F - 122°F |
| Operating Humidity | -4°F - 150°F |

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**WIDE DYNAMICS**

**Mechanical IR-Cut Filter**

**Features:**
• Pixim Seawolf Image Sensor
• 690 TVL, 0.1Lux
• Wide Dynamic Range function
• DNR, Motion Detection, Privacy Masking built-in
• Dual Voltage 12VDC/24VAC
• C/CS Mount Lens

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# KPC-600WDSA

## Color Pinhole Pixim WDR Board Camera

**Features:**
• High Resolution CCD
• Widest Dynamic Range (120dB max)
• 0.1 Lux Sensitivity (Day & Night)
• Advance & Compact design
• Standard Pinhole Lens: 3.7mm
• Ideal for ATM's, Government facilities and more

**Specifications:**

| | |
|---|---|
| Model No. | KPC-600WDSA |
| Image Sensor | Pixim® Seawolf |
| Effective Pixel | 768(H) x 548(V) |
| Resolution | 690TVL |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | 102dB, 120dB Max |
| Sync. System | Internal |
| White Balance | ATW / AWB |
| BNC Video Output | CVBS 1.0 Vp-p / 75Ω |
| Min. Illumination | 0.1 lux (Day & Night) |
| Lens | 3.7mm Pinhole |
| Power | 12VDC, > 250mA |
| Size | 36mm x 36mm |
| Weight | 200g |
| Operating Temperature | 14°F - 122°F |
| Operating Humidity | -4°F - 150°F |

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# BC5009WD

## WDR Color Dome Camera

**Features:**
• Pixim DPS (Digital Pixel System)
• 550 Lines of Resolution
• 0.5 lux sensitivity (Day & Night)
• Wide Dynamic Range 120dB
• Adjustable auto gain control, OSD

**Specifications:**

| | |
|---|---|
| Image Device | 1/3" Digital Pixel System |
| Resolution | 550 TV Lines |
| Dynamic Range | 120dB Maximum |
| SYNC System | Internal |
| Scanning System | 2:1 Interface |
| Min. Illumination | 0.5 lux |
| White Balance | AWB/ATW/Manual Selectable |
| Lens | 3.6mm |
| Power Supply | 12VDC <4W (Max) |
| Operating Temperature | 14°F - 122°F |
| Operating Humidity | -4°F - 150°F |

WDR      INFRARED      3 AXIS

# BC1009AVAWD

## Vandal Proof Wide Dynamic Range Dome Camera

**Features:**
• 1/3" DPS (Digital Pixel System)
• 540 TVL, 0.08 Lux
• Wide Dynamic Range function
• Day/Night function
• On-screen menus for camera settings

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" DPS (Digital Pixel System) |
| Effective Pixels | 720H x 540V |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 540 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 sec |
| S/N Ratio | > 50dB |
| Min. Illumination | 0.08 Lux/F1.2 |
| Day & Night, WDR | On/Off |
| White Balance | Auto 2000K to 11,000K |
| Lens | 3.6mm |
| Shutter | Electronic/Manual/Digital |
| Power Supply | 12VDC/500mA |
| Power Consumption | 280mA or Less |

# BC1009AVAWDIRSA

## Vandal Proof Seawolf WDR IR Dome Camera

**Features:**
• Pixim Seawolf Image Sensor
• 690 TVL, 0Lux
• Wide Dynamic Range function
• IR with Infrared Cut-filter
• DNR, Motion Detection, Privacy Masking built-in
• 2.6 ~ 10mm Vari Focal Lens

**Specifications:**

| | |
|---|---|
| Image Sensor | Pixim® Seawolf |
| Effective Pixels | 768(H) x 548(V) |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 690 HTVL Effective |
| Min. Illumination | 0 lux IR On |
| Shutter Speed | 1/60 ~ 1/100,000 sec |
| S/N Ratio | Dynamic Range 102dB, Typical 120dB Max |
| Sync System | Internal / Line Lock |
| Lens | 2.6-10mm |
| IR LED | 21 pcs IR Leds with ICR |
| White Balance | ATW / AWB |
| BNC Video Output | CVBS 1.0 Vp-p / 75Ω |
| IRIS Control | DC / Video |
| Power Supply | 12VDC/24VAC |
| Power Consumption | 4W Max |
| Size | 5.9"Ø x 5" |
| Weight | 1.3kg |
| Operating Temperature | 14°F - 122°F |
| Operating Humidity | -4°F - 150°F |

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# KPC-600B

## Color Spy Camera with Case

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Color CCD |
| Effective Pixels | 512H x 492V |
| Scanning System | 525 Lines 2:1 interlaced |
| Resolution | 420~450 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | more than 48dB |
| Sync. System | Internal |
| Min. Illumination | 0.5 lux |
| White Balance | Automatic |
| Power Supply | 12VDC |
| Power Consumption | 120mA or less |
| Audio Output | RCA |

**Features:**
• Micro Compact design
• 420~450 TV Lines Resolution
• Built-in microphone for audio monitoring
• Plug and play cables
• Mini mounting bracket included
• Dimensions: 1.41" x 1.41"
• Pinhole Board Lens: 3.6mm

# BC2033H

## Weather-Proof Miniature Color Bullet Camera

**Specifications:**

| | |
|---|---|
| Model No. | BC2033H |
| Image Sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | 510H x 492V |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 550 Lines |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | > 48dB |
| Sync. System | Internal |
| Min. Illumination | 0.2 Lux |
| Power Supply | 12VDC |
| Power Consumption | 110mA or less |
| Dimension | 2.75" x 0.91" |

**Features:**
• 550 TV Lines Resolution, 0.2 Lux
• Operating Temp: 14°F ~ 122°F
• 1/4" Sony Super HAD CCD
• S/N Ratio: > 48dB
• Aluminum Weatherproof Housing
• Shutter Speed: 1/60 ~ 1/100,000 sec

# BC3034H

## High Resolution Day and Night Pinhole Bullet Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony High Resolution CCD |
| Effective Pixels | 510(H) x 492(V) |
| Resolution | 550 TV Lines Resolution |
| Min. Illumination | 0.05 lux/F1.2 |
| S/N Ratio | > 48dB |
| Shutter Speed | 1/60 ~ 1/100,000 sec |
| A.G.C. | On/Off |
| Day/Night | Yes |
| B.L.C. | On/Off |
| Day & Night Function | Built-in |
| Video Out | BNC, 1.0Vp-p (75ohm) |
| Power Consumption | 150mA or less |

**Features:**
• 1/3" Sony CCD
• 550 TV Lines of Resolution
• BLC & AGC Control
• Excellent Color Reproduction
• Remarkable Sensitivity / Auto White Balance
• Day & Night Function

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# BC6035B/H

## 3-Axis In/Outdoor IR Bullet Camera

**Features:**
• 1/4" Sony Super HAD CCD
• 480 TV Lines Resolution
• 0 lux IR On
• Auto BLC, AGC and White Balance
• 3-axis bullet
• 23 Leds with 75ft effective distance

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/4" Color Sony HAD CCD |
| Total Pixel | 811(H) x 508(V) |
| Sensing Area | 4.9mm x 3.7mm |
| Sync. System | Internal |
| Resolution | 480 TVL |
| Lens | 2.8 ~ 12 Lens |
| Mini Focal Distance | 20cm |
| Exposure Mode | EE |
| WB/AGC/BLC | Auto |
| S/N Ratio | 48dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 23 units, 850nm |
| IR Distance | 75ft |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Power | 12VDC |
| Operating Temperature | -4°F ~ 122°F |

# BC6036HVA/12/24

## 3-Axis In/Outdoor 4.0-9.0mm Vari-Focal IR Bullet Camera

**Features:**
• 1/3" Sony Super HAD CCD
• 520 Lines of Resolution, 0 lux
• Auto Gain Control
• 36 High Powered IR Leds, Up to 100ft
• Easy adjustable vari-focal lens
• 4.0mm ~ 9.0mm vari-focal

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | 510H x 492V |
| Resolution | 520TV Lines |
| Lens | 4.0 ~ 9.0mm Manual Focus |
| Sync. System | Internal |
| S/N Ratio | more than 48dB |
| Min. Illumination | 0 lux |
| Electronic Shutter Speed | 1/60 ~ 1/100,000 |
| White Balance | Auto |
| IR | 36 IR Leds |
| IR Range | 100ft |
| Power Supply | 12VDC / 24VAC |
| Construction | Aluminum |

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# BE1025-AIR

### 4-9mm Focus Free Vari-Focal IR Bullet Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | 510H x 492V |
| Resolution | 520TV Lines |
| Lens | 4.0 ~ 9.0mm Adjustable |
| Sync. System | Internal |
| S/N Ratio | more than 48dB |
| Focus | Auto / Always Focus |
| Min. Illumination | 0 lux |
| Electronic Shutter Speed | 1/60 ~ 1/100,000 |
| White Balance | Auto |
| A.G.C. | Auto |
| Power Supply | 12VDC |
| Construction | Aluminum with silver base |
| Housing | Outdoor Weatherproof |
| ID | Adjustable |
| Operating Temperature | -14ºF ~ 120ºF |

**Features:**
- 1/3" Sony Super HAD CCD
- 520 TVL, 0 Lux
- 4.0-9.0mm Vari Focal w/ Motorized Auto Focus
- Built-in RS 485 for zoom in/out operation
- 36 High Power IR LEDs, Up to 100ft
- FOCUS FREE auto iris motorized zoom lens
- Weatherproof housing for outdoor operation

# BC1009-3.6

### Color Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony CCD |
| Effective Pixels | 510H x 492V(250k Pixels) |
| Scanning System | 525 Lines 2:1 interlace |
| Signal System | 60Hz |
| Resolution | 420 ~ 450 TV Lines |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | > 48dB |
| Sync. System | Internal |
| Video Output | 1.0 Vp-p (75ohm) |
| Min. Illumination | 0.5 Lux |
| Power Supply | 12VDC |
| Power Consumption | 120mA or Less |

**Features:**
- 1/3" Interline Transfer CCD
- Color: 420-450 TV Lines Resolution, 0.5 Lux
- S/N Ratio: > 45dB
- Shutter Speed: 1/60 ~ 1/100,000 sec.
- Standard Lens: 3.6mm

# BC1009IR

### Color Infrared Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/4" Sony CCD |
| Effective Pixels | 510H x 492V(250k Pixels) |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 420 ~ 450 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | > 48dB |
| Sync. System | Internal |
| Min. Illumination | 0 Lux |
| Video Output | 1.0 Vp-p (75ohm) |
| IR Range | 12LEDs, 45FT |
| Power Supply | 12VDC |
| Power Consumption | 180mA or Less |

**Features:**
- Built-in Infrared 12 LEDs
- High Resolution Sony CCD
- 420-450 TV Lines Resolution, 0 Lux
- IR Range: 45 FT.
- Impact Resistant Shell

# BC3009HDN/12/24

## High Resolution Day & Night Dome Camera

**Features:**
• 1/3" Sony High Resolution Color CCD
• 550 TV Lines Resolution
• 0.05 lux
• Standard 3.6mm Lens
• Remarkable sensitivity
• AWB (Auto White Balance)
• BLC (Backlight Compensation)
• AGC (Auto Gain Control)

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony High Resolution CCD |
| Effective Pixels | 768H x 494V |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 550 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | > 48dB |
| Day/Night | Auto, On/Off |
| Sync. System | Internal |
| Video Output | 1.0 Vp-p (75ohm) |
| Min. Illumination | 0.05 Lux |
| Power Supply | 12VDC |
| Power Consumption | 150mA or Less |
| Operating Temperature | -14ºF ~ 120ºF |

# BC3009HDNVA/12/24/2.6-6mm

## High Resolution Day & Night Vari-Focal Dome Camera

**Features:**
• 1/3" Sony High Resolution Color CCD
• 550 Lines of Resolution, 0.05 lux
• Vari-Focal Lens 2.6mm ~ 6mm
• Available in two colors White or Black
• Remarkable sensitivity
• AWB (Auto White Balance)
• BLC (Backlight Compensation)
• AGC (Auto Gain Control)

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony High Resolution CCD |
| Effective Pixels | 768H x 494V |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 550 TV Lines |
| Min. Illumination | 0.05 lux |
| Shutter Speed | 1/60 ~ 1/100,000 sec |
| S/N Ratio | >48dB |
| Sync. System | Internal |
| Available Color | Black/White |
| Vari-Focal Lens | 4.0~9.0mm |
| Power Supply | 12VDC/24VAC |
| Power Consumption | 180mA or Less |
| Operating Temperature | -14ºF ~ 120ºF |

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# BC1009AVAIR

## Outdoor Infrared Armored Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony HQ1 Color CCD |
| Effective Pixels | 768H x 494V |
| Scanning System | 2:1 interlace |
| Resolution | 520 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 Sec |
| S/N Ratio | 50dB or More (AGC Off) |
| Sync. System | Internal |
| Min. Illumination | 0.2 Lux, 0 Lux IR On |
| IR Range | 65ft, 21LEDs |
| Gamma Characteristic | 0.45 |
| Consumption Current | 200mA (LED Off), 600mA (LED On) |
| Power Supply | 12VDC |
| Vari-Focal | 4~9mm Auto Iris Lens |
| Operation Temperature | -14ºF ~ 122ºF |

**Features:**
- 1/3" Sony HQ1 Color CCD
- 520 TV Lines Resolution
- 21 LEDs, 0 Lux, up to 65ft
- Varifocal Lens: 4~9mm with Auto Iris
- Polycarbonate Vandal & IP66 Weather Proof
- 3 Axis Mounting

# BC3009AVA

## Vandal Proof Day & Night Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony CCD |
| Effective Pixels | 510H x 492V |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 520 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | >48dB |
| Sync. System | Internal |
| Min. Illumination | 0.05 Lux |
| Day & Night | Yes |
| Power Supply | 12VDC/24VAC |
| Housing | IP67 Weather Resistant Vandal Proof Shell |
| Dimension | 5.59" x 3.34" |

**Features:**
- 1/3" Sony CCD
- Up to 520 TV Lines Resolution
- Minimum Illumination 0.05 lux
- Vandal Proof Housing
- Built-in Vari-Focal Lens 4~9.0mm
- Auto Iris and BLC

# BC3009AIR

## 3 Axis Armored In/Outdoor Infrared Dome Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony CCD |
| Effective Pixels | 510H x 492V(250k Pixels) |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 520 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 sec. |
| S/N Ratio | >48dB |
| Sync. System | Internal |
| Min. Illumination | 0 Lux |
| IR Range | 23LEDs, 60ft |
| Housing | IP66 Weatherproof |
| BLC/White Balance | Auto |
| Lens | 3.6mm |
| Power Supply | 12VDC |

**Features:**
- 1/3" Sony Color CCD
- 520 Lines of Resolution, 0 lux
- Vandal Proof Shell
- 3-axis design for easy installation
- IP66 Weather Proof Housing
- IR Range: up to 60ft

# BC1009S/IRAD

## Weather-Proof Armor IR Color Dome Camera

**Features:**
- 1/3" Sony Color CCD
- 480 Lines of Resolution
- 0 lux
- Vandal Proof Shell
- IP66 Weather Proof Housing
- IR Range: up to 60ft
- 23 LEDs for night operation

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | 510H x 492V(250k Pixels) |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 480 TV Lines Resolution |
| Shutter Speed | 1/60 ~ 1/100,000 sec. |
| S/N Ratio | >48dB |
| Sync. System | Internal |
| White Balance/AGC | Auto |
| Lens | 3.6mm |
| Min. Illumination | 0 Lux |
| IR Range | 23LEDs, 60ft |
| Power Supply | 12VDC |
| Power Consumption | 150mA or Less |
| Operating Temperature | -14ºF ~ 122ºF |

# BC1009IB-IROD-B/W

## Indoor Eyeball Color Dome Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/4" Color Sony CCD |
| Total Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Sensing Area | 4.9mm x 3.7mm |
| Sync. System | Internal |
| Resolution | 480 TVL |
| Lens | 3.6mm Lens |
| Mini Focal Distance | 20cm |
| Exposure Mode | EE |
| WB/AGC/BLC | Auto |
| S/N Ratio | 48dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 23 units, 850nm |
| IR Distance | 75ft |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Power | 12VDC |
| Operating Temperature | -4°F ~ 122°F |

**Features:**
- 1/4" Sony Super HAD CCD
- 480 TV Lines Resolution
- 0 lux IR On
- IR Corrected Lens
- Auto BLC, AGC and White Balance
- 3-axis eyeball design
- 23 Leds with 75ft effective distance
- 12VDC power

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# BC1009B/IRAD

## Armored Eyeball IR Dome Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/4" Color Sony CCD |
| Total Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Sensing Area | 4.9mm x 3.7mm |
| Sync. System | Internal |
| Resolution | 480 TVL |
| Lens | 3.6mm Lens |
| Mini Focal Distance | 20cm |
| Exposure Mode | EE |
| WB/AGC/BLC | Auto |
| S/N Ratio | 48dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 23 units, 850nm |
| IR Distance | 50ft |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Power | 12VDC |
| Operating Temperature | -4°F ~ 122°F |

**Features:**
- 1/4" Sony Super HAD CCD
- 480 TV Lines Resolution
- 0 lux IR On
- IR Corrected Lens
- Auto BLC, AGC and White Balance
- 3-axis eyeball design
- 23 Leds with 50ft effective distance
- 12VDC power

# BC1009B/IRODVA28

## Outdoor Eyeball Vari-Focal IR Dome Camera

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/4" Color Sony CCD |
| Total Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Sensing Area | 4.9mm x 3.7mm |
| Sync. System | Internal |
| Resolution | 480 TVL |
| Lens | 2.8 ~ 12.0mm Lens |
| Mini Focal Distance | 20cm |
| Exposure Mode | EE |
| WB/AGC/BLC | Auto |
| S/N Ratio | 48dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 23 units, 850nm |
| IR Distance | 75ft |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Power | 12VDC |
| Operating Temperature | -4°F ~ 122°F |

**Features:**
- 1/4" Sony Super HAD CCD
- 480 TV Lines Resolution
- 0 lux IR On
- IR Corrected Lens
- Auto BLC, AGC and White Balance
- 3-axis eyeball design
- 35 Leds with 100ft effective distance
- IP 66 weatherproof housing
- 12VDC power

# BC1009IB/VAIR

## Indoor Vari-Focal IR Dome Camera

**Features:**
- 1/4" Sony Super HAD CCD
- 480 TV Lines Resolution
- 0 lux IR On with IR Corrected Lens
- 3-axis design
- 23 Leds with 75ft effective distance

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/4" Color Sony CCD |
| Total Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Sensing Area | 4.9mm x 3.7mm |
| Sync. System | Internal |
| Resolution | 480 TVL |
| Lens | 2.8mm ~ 12mm Lens |
| Mini Focal Distance | 20cm |
| Exposure Mode | EE |
| WB/AGC/BLC | Auto |
| S/N Ratio | 48dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 23 units, 850nm, 75ft |
| Gamma Correction | 0.45 |
| Power | 12VDC |
| Operating Temperature | -4°F ~ 122°F |

# BC1009B-AVAIR

## Color Vandal Proof IR Dome Camera

**Features:**
- 1/4" Sony Super HAD CCD
- 480 TV Lines Resolution
- 0 lux IR On
- Auto BLC, AGC and White Balance
- 3-axis eyeball design
- 23 Leds with 75ft effective distance

**Specifications:**

| | |
|---|---|
| Imaging Sensor | 1/4" Color Sony CCD |
| Total Pixel | 811(H) x 508(V) |
| Signal System | NTSC |
| Sensing Area | 4.9mm x 3.7mm |
| Sync. System | Internal |
| Resolution | 480 TVL |
| Lens | 2.8 ~ 12 Lens |
| WB/AGC/BLC | Auto |
| S/N Ratio | 48dB (AGC off) |
| Electronic Shutter | 1/60 ~ 1/100,000 sec |
| Video Output | 1.0 Vp-p, 75 ohm |
| Minimum Illumination | 0 lux (IR On) |
| IR Leds | 23 units, 850nm |
| IR Distance | 75ft |
| Gamma Correction | 0.45 |
| Housing | IP66 |
| Power | 12VDC |
| Operating Temperature | -4°F ~ 122°F |

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# BB1001/12/24

## Advanced Dual Voltage Box Camera

**Specifications:**

| | |
|---|---|
| Model Number | BB1001/12/24 |
| Image Sensor | 1/3" CCD |
| Effective Pixels | 510H x 492V |
| Scanning System | 525 Lines 2:1 Interlace |
| Resolution | 420 TV Lines Resolution |
| Shutter Speed | 1/60~1/100,000 sec |
| S/N Ratio | > 48dB |
| Sync System | Internal |
| Min. Illumination | 0.2 lux |
| Video Output | 1.0 Vp-p(75ohm) |
| Auto Gain Control | On/Off Optional |
| Electronic Shutter Control | EE/AI Switchable |
| Power Supply | 12VDC / 24VAC |

**Features:**
- Built-in Line Lock
- Dual voltage: 12VDC or 24VAC
- Video Output: 1.0Vp-p, 75 ohm BNC
- Back Light Compensation: On/Off Optional
- Shutter Speed: 1/60 ~ 1/100,000 sec
- C/CS Mount

# BC2002HQDN/12/24

## Sony HQ High Resolution Box Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD |
| DSP | Sony HQ1 |
| Effective Pixels | 811H x 508V |
| Scanning System | 2:1 Interlace |
| Resolution | 540 TV Lines Resolution |
| Shutter Speed | 1/60~1/100,000 sec |
| S/N Ratio | > 50dB (AGC OFF) |
| Sync System | Internal |
| Min. Illumination | 0.14 lux / F1.0 |
| A.G.C. / B.L.C | On / Off |
| Auto White Balance | AWB |
| Power Supply | 12VDC / 24VAC, 2.0W |
| Dimensions | 2.36" x 1.97" x 3.94" |

**Features:**
- 1/3" Sony Super HAD CCD
- 540 TVL, 0.14 Lux
- DSP: Sony HQ1
- Automatic Day & Night Function
- Dual Voltage 12VDC / 24VAC
- BLC, AGC and Flickerless control

# BC3002HDN/12/24

## 550 TVL High Resolution Box Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony High Resolution CCD |
| Effective Pixels | 510(H) x 492(V) |
| Resolution | 550 TV Lines Resolution |
| Min. Illumination | 0.05 lux/F1.2 |
| S/N Ratio | >48dB |
| Electric Shutter | EE/AI Switchable |
| A.G.C. / B.L.C. | On/Off |
| Day/Night | Yes |
| Video Out | BNC, 1.0Vp-p (75ohm) |
| Power Supply | 12VDC / 24VAC |
| Power Consumption | 150mA or less |

**Features:**
- 1/3" Sony CCD
- 550 TV Lines of Resolution
- BLC & AGC Control
- Excellent Color Reproduction
- Remarkable Sensitivity / Auto White Balance
- Dual Voltage 12VDC ~ 24VAC

# BC2002HQDNVL

## Highway Surveillance License Plate Camera

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD |
| DSP | Sony HQ1 |
| Effective Pixels | 811H x 508V |
| Scanning System | 2:1 Interface |
| Resolution | 540 TVL |
| S/N Ratio | > 50dB (AGC OFF) |
| Sync System | Internal |
| Min. Illumination | 0.15 lux / F1.0 |
| Electronic Shutter Speed | AES ON, AES OFF, 1/100(120) sec. FL: 1/130sec, 1/160sec, 1/210sec, 1/280sec, 1/360sec, 1/420sec, 1/560sec |
| B.L.C. | On / Off |
| A.G.C. | On / Off |
| Video Output | 1Vp-p Composite |
| Power Consumption | 250mA (3.0W) |
| Power Supply | 12VDC / 24VAC |
| Operation Environment | - 10ºC ~ 50ºC, RH 80% (Max.) |
| Dimensions | 2.4" x 2" x 3.9" |

**"Capture Up to 90 mph"**

**Features:**
• 1/3" Sony Super HAD CCD
• 540 TVL, 0.15 Lux
• DSP: Sony HQ1
• Automatic Day & Night Function
• Dual Voltage 12VDC/24VAC
• Built-in Intelligent Shutter (CAR-DC Iris Control) Capturing moving target up to 90mph

# BC2035/HQDNVLIR

## Outdoor **Anti-Headlight** License Plate Infrared Bullet Camera

**Features:**
• 1/3" Sony Super HAD CCD
• Sony HQ1, 540 TVL, 0 Lux
• 6 Pcs Super High Power Reflection LEDs + 24 IR LEDs
• Anti-Head Light Technology for night operation
• External Varifocal Lens Adjustment
• User Friendly DC Level & High Power IR LEDs Adjustments
• 3-axis Adjustable & Cable Management Bracket
• Built-in DNR & Sense Up Functions

**Specifications:**

| | |
|---|---|
| Image Sensor | 1/3" Sony Super HAD CCD |
| Effective Pixels | 795H x 596V |
| Scanning System | 525 Lines 2:1 interlace |
| Resolution | 540 TVL |
| Shutter Speed | 1/60 ~ 1/100,000 |
| S/N Ratio | more than 50dB |
| Sync. System | Internal |
| Min. Illumination | 0 Lux (IR On) |
| IR Range | Outdoor 100ft / Indoor 150ft, 30 units |
| Water Resistant | IP66 |
| Lens | Aspherical 3.8mm ~ 9.5mm |
| DNR; Sense Up | Automatic |
| Power Supply | 12VDC/24VAC, 90%RH |
| Dimension | 3.7"x 6.5" |

**Vari-Focal Adjustment**

Color Mode | Basic Camera | Anti Head Light

**License Plate Camera with Anti Headlight Technology**

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# Video Wall

## Multipurpose Surveillance Video Display

**Features:**
- Customized Panel Design: 2x2, 3x3, 4x4 and more
- High Brightness
- High Contrast up to 1500:1
- Wide View Angle up to 170 degrees
- Designed for 24/7 security monitoring
- 120Hz Frequency Multiplication Refreshing Frequency
- More than 50,000 Hours of life-span of the LCD screen backlight
- Ultra Slim Edge Design
- Multiple display image signal source: BNC, VGA, S-Video etc.
- Any Combination of Display: Full Screen, Single and Combination
- Superior Image Display Function: Image Cruise, Superposition, Drag etc.
- Universal Power Supply

## Specifications:

| | | | |
|---|---|---|---|
| Panel Size | 19" | 40" | 46" |
| W/H Ratio | 5:4 | 16:9 | 16:9 |
| Brightness | 450 cd/m² | 1000 cd/m² | 1000 cd/m² |
| Resolution (per unit) | 1280 x 1024 | 1366 x 768 | 1366 x 768 |
| Contrast | 1000:1 | 1500:1 | 1500:1 |
| Definition (per unit) | 1080i | 1080p | 1080p |
| Dimension (mm) | 396(H)x324(W) | 911.7(H)x524.2(W) | 1047.4(H)x600.6(W) |
| Weight | 2.3Kg | 12.5Kg | 18.5Kg |
| Color | 16.7M | 16.7M | 16.7M |
| Viewing Angle | 170º / 160º | 178º / 178º | 178º / 178º |
| Response Time | 8ms | 8ms | 8ms |
| LCD Panel Number | Any Row (M) x Any Column (N) | | |
| Edge within panels | 18mm | 20mm | 20mm |
| Installing Method | Key-free Hanging Method | | |
| Cabinet Width | ≤ 180mm | ≤ 200mm | ≤ 200mm |
| Cabinet Material | Complete steel stand frame, solid wood decoration frame | | |
| Cabinet Size | Customized design: 2x2, 3x3, 4x4, 5x5, N x N | | |
| Power Supply | 100 ~ 230 (50/60Hz) | | |
| Power (per unit) | 35W | 200W | 200W |
| Operating Temp. | 0ºC ~ 60ºC | | |
| Operating Humidity | 10 ~ 90% | | |
| Input | BNC, VGA, S-Video (optional), DVI (optional) | | |
| Video System | Worldwide Multiple Video System (NTSC/PAL) | | |
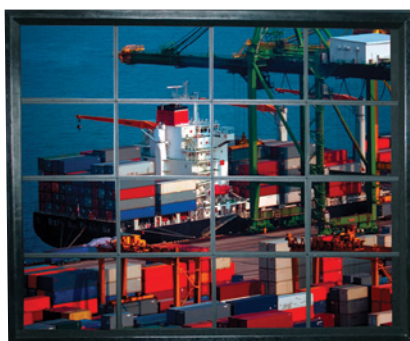
# BE8019LCD

## Security Grade LCD Monitor

The Bolide Security LCD series provides outstanding color and clarity. Our High Resolution LCD monitors are a perfect choice for the most sophisticated security, surveillance and monitoring operations.

### Features:
• SXGA 1280x1024 Resolution
• Fast Response Time 8ms
• Viewing Angle 160º(H),160º(V)
• Built-in BNC Input and Looping Out

### Specifications:

| | |
|---|---|
| Model Number | BE8019LCD |
| Display Unit | 4:3 TFT / LCD |
| Video Input/Output | 1x D-15 Input, 1 x S-video , 2 x BNC Input/Output |
| Audio Input/Output | 3 x Single Channel RCA Input /Output |
| Panel Control | Menu (Brightness, Contrast, Saturation, Hue), Volume, Channel Switch |
| Power Source | AC110V |
| Power Consumption | Maximum: 32W |
| Dimension(WxHxD) | 458x372x84mm |
| Weight | 5.5kg |
| Definition | 1000TVL |
| Video System | Worldwide Multiple Video System (NTSC/PAL) |
| Max Resolution | UXGA |
| | 1280x1024 |
| Audio Power | Max. 1.0W |
| Maximum Brightness | Enhanced 450cd/m |
| Maximum Contrast | 700:1 |
| Response Time | 8ms |
| Visual Angle | 160°,160° |

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# COVERT CAMERAS

# Hidden Cameras with built in SD Card

## "Ready to Go" Hidden Camera Packages with SD

With our new recording technology in our Hidden / Nanny Cameras, we have eliminated the need for additional recording equipment in a covert system. With Motion Detection and Time & Date Stamp features, the hidden camera records directly onto a SD card for storage and it can be easily played back on your PC. Several Styles and many features make this the perfect covert all in one solution at an affordable price. Our hidden cameras also have an option to convert to an Network Hidden Camera which allows you access your camera anywhere as long as you have Internet connection.

**Now with Wifi.**

### Features:
- Video System: NTSC
- Time & Date Stamp During Playback on Unit
- Video Format: AVI, SDK
- Video Recording Modes: Manual / Motion Activation
- IR remote control
- No Professional Installation Required

### Optional Features:
- Wifi built-in
- Record on remote computer
- IP software compatible

Actual product(s) may vary from photo.

# USB Hidden Cameras

## "Plug and Play" Hidden Camera Packages

USB version Hidden Camera built-in internal battery. Simply charge with your PC, once it is fully charged. These camera can be placed anywhere to record up to 8 hrs of video. After recording, just plug it to your PC for playback, no extra software needed. No professional installation is required.

### Features:
- Video System: NTSC
- Record up to 8 Hrs Video with Internal Memory
- Video Format: AVI
- Video Recording Modes: Continuous
- USB Connection for PC and charging
- No External Power Required, Battery Operated
- No Professional Installation Required

Actual product(s) may vary from photo.

# Premade Hidden Cameras

## PIR Motion / Smoke Alarm / Recess Hidden Camera

**BC1008 - PIR Hidden Camera**
**BC1008M - Working PIR Hidden Camera**
**BC1010 - Smoke Alarm Hidden Camera** (Down/Side View)
**BC1038 - Premade Smoke Alarm Hidden Camera**
**BC1020UFO - Recess Hidden Camera with IR**

**BC1020UFO**

### Specifications:

| | |
|---|---|
| Image Sensor | 1/4" CCD (Color) |
| Effective Pixels | 512H x 492V (250k pixels) |
| Scanning System | 525 Lines 2:1 Interlace |
| Resolution | 420 -450 Lines (Color) |
| Shutter Speed | 1/60 ~ 1/100,000 sec |
| S/N Ratio | More than 45 dB (AGC off) |
| Sync. System | Internal |
| Min. Illumination | 0.5 Lux (Color) |
| White Balance | AWB |
| Power Consumption | 100mA (DC12V) |

**BC1038**
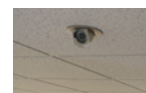
**BC1010**

**BC1008**
**BC1008M**

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# CCTV / Network Cables

Our professional grade cables are what you need to ensure an easy, cleaner and more efficient camera installation. We provide Quality Siamese RG59+18/2, RG59, RG6 along with Alarm Wire & CAT5/CAT6 cables. Bolide's NEW specialty IP Camera cable is perfect for IP cameras and PTZ applications. Most Bolide cables feature sequential foot markers and are UL certified. Available also in CMP and CMR rated.

## CCA
(Copper Clad Aluminum) - CCA cables are cheaper in price but similar specification to pure copper cable. Bolide CCA cable's copper content are higher than standard which results in good performance and good quality compare to pure copper cable.

**CMR** Riser type cables are engineered to prevent the spread of fire from floor to floor and are suitable for vertical shaft applications. The 'R' in CRM is for 'Riser'.

**CMP** Cables meeting type CMP requirements are suitable for installation in ducts and plenums without the use of conduit. These cables are designed for fire resistance and low-smoke and toxin producing characteristics. The 'P' in CMP is for Plenum.

**UL LISTED**

# RG59 Professional Grade Zip/Combo Cable

| Description | Part No. | Length (ft) | Dielectric | Conductor / Shielding | Jacket | Nom. Imp. (Ω) | Vel. of Prop. | Nominal Attenuation | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Mhz | db/100ft |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033C-E | 500ft | Gas Injected Foam PE | CCS+CCAM / 95% Coverage | 75°C PVC U/V White | 75 | 82% | 1Mhz | 0.33 |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033CB-E | 500ft | | | 75°C PVC U/V Black | | | 10Mhz 50Mhz 100Mhz | 0.88 1.85 2.51 |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033CB1000-E | 1000ft | | | 75°C PVC U/V White | | | 200Mhz 400Mhz 700Mhz | 3.58 5.29 7.45 |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033CW1000-E | 1000ft | | | 75°C PVC U/V Black | | | 900Mhz 1000Mhz | 8.7 9.31 |

# RG59 Superior Grade Zip/Combo Cable

| Description | Part No. | Length (ft) | Dielectric | Conductor / Shielding | Jacket | Nom. Imp. (Ω) | Vel. of Prop. | Nominal Attenuation | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Mhz | db/100ft |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033/C | 500ft | Gas Injected Foam PE | BC / CCA 95% Coverage | 75°C PVC U/V White | 75 | 82% | 1Mhz | 0.33 |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033/CB | 500ft | | | 75°C PVC U/V Black | | | 10Mhz 50Mhz | 0.88 1.85 |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033/CW1000 | 1000ft | | | 75°C PVC U/V White | | | 100Mhz 200Mhz | 2.51 3.58 |
| RG-59/U, 20 AWG Power 18-2, 18AWG | BP0033/CB1000 | 1000ft | | | 75°C PVC U/V Black | | | 400Mhz 700Mhz | 5.29 7.45 |
| RG-59/U, 20AWG Power 18-2, 18AWG | BP0033C/CMP | 500ft | | | Plenum White **CMP** | | | 900Mhz 1000Mhz | 8.7 9.31 |
| RG-59/U, 20AWG Power 18-2, 18AWG | BP0033/CW1000/CMP | 1000ft | | | Plenum White **CMP** | | | | |

# RG6 CATV Cable

| Description | Part No. | Length (ft) | Color | Conductor / Shield | Nom. Imp. (Ω) |
|---|---|---|---|---|---|
| RG6/Quad, 18AWG | BP0033/RG6Q | 1000ft | WHT | CCS / 2 x 60% Alum. Foil coverage | 75 |

# CAT5e Twisted Pair Networking Cable

| Description | Part No. | Length (ft) | Color | Conductor/Jacket | Cable Characteristic | |
|---|---|---|---|---|---|---|
| | | | | | Parameter | dB |
| 4-Pair 100Ω UTP 24AWG 350Mhz Swept Test | BP0033/Cat5e | 1000ft | Grey Blue White Yellow | CCA / PVC | Attenuation NEXT PSNEXT ELFEXT PSELFEXT ACR PSACR RL | 12.8 30.9 36.7 18.8 15.8 46.0 43.8 17.0 |
| | BP0033/Cat5e/CMR | 1000ft | Grey Blue White Yellow | Riser Rated CMR | | |
| | BP0033/Cat5e/CMP | 1000ft | Blue Grey | Plenum CMP | | |

# CAT6 Twisted Pair Networking Cable

| Description | Part No. | Length (ft) | Color | Conductor/Jacket | Speed |
|---|---|---|---|---|---|
| 4-Pair 100Ω UTP 24AWG 550Mhz Swept Test | BP0033/Cat6 | 1000ft | Blue White | CCA / PVC | Gigabyte Ready |
| | BP0033/Cat6/CMP | 1000ft | Blue Grey | BC / Plenum CMP | |
| | BP0033/Cat6/UCM | 1000ft | Blue | CCU / PVC | |

# IP Camera Cable with Power

| Description | Part No. | Length (ft) | Color | Conductor/Jacket | Cable Characteristic | |
|---|---|---|---|---|---|---|
| | | | | | Parameter | dB |
| 4-Pair 100Ω UTP 24AWG 350Mhz Swept Test, Power 18-2, 18AWG | BP0033/IP | 1000ft | White | CCA / PVC | Attenuation NEXT PSNEXT ELFEXT PSELFEXT ACR PSACR RL | 12.8 30.9 36.7 18.8 15.8 46.0 43.8 17.0 |

# Audio, Security & Alarm Cable

| Description | Part No. | Length (ft) | Color | Conductor/Jacket |
|---|---|---|---|---|
| 1 Pair, 18AWG/2 | BP0033/18-2 | 1000ft | BLK | CCA / PVC |
| 1 Pair, 22AWG/2 | BP0033/22-2 | 1000ft | WHT | CCA / PVC |
| 2 Pairs, 22AWG/4 | BP0033/22-4 | 1000ft | WHT | CCA / PVC |

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# RG59 Coaxial Premade Cable

## 25ft, 60ft, 100ft, 150ft & 200ft BNC Compressed with 18/2

**Features:**
• RG59 Coaxial Cable for Maximum Video Quality
• Ready for install
• Includes Power Connectors

BP0033/PM25 - 25FT RG59 Coaxial Premade Cable
BP0033/PM60 - 60FT RG59 Coaxial Premade Cable
BP0033/PM100 - 100FT RG59 Coaxial Premade Cable
BP0033/PM150 - 150FT RG59 Coaxial Premade Cable
BP0033/PM200 - 200FT RG59 Coaxial Premade Cable

# BP0021/13"/39"/78"

## Aluminum Mounting Bracket

**Features:**
• Heavy-duty in / outdoor
• Max-Load 8.5 lbs.
• Swivel Angle 360º

BP0021/13 (12"-15")
BP0021/39 (24"-42")
BP0021/78 (up to 78")

# SC1/SC-C

## Indoor Scanner

**Features:**
• Adjustable pins for movement
• Supporting base for installation to the ceiling
• Heavy duty motor
• Universal mounting for all types of cameras
• Ideal for indoor / outdoor use

# BP0009

## In/Outdoor Brackets

**Features:**
• Adjustable Pan and Tilt Head
• Maximum Adjustment: 360° pan/ 90° tilt
• Ideal for indoor / outdoor use

# BP0020

## Heavy Duty In/Outdoor Brackets

**Features:**
• Heavy-Duty Construction
• Adjustable Pan and Tilt Head
• Maximum Adjustment: 360° pan/ 90° tilt
• Ideal for indoor / outdoor use

# BP0022

## Professional CCTV Housing

**Features:**
• Heavy-Duty Beige Aluminum Construction
• 15" Environmental Housing
• Dimensions: 15.5"L x 5.8"W x 4.3"H (With Visor)
• Latch Adjustable Camera Tray

# BP0034

## Professional CCTV Housing with Heater and Blower

**Features:**
• Heavy-Duty Beige Aluminum Construction
• 15" Environmental Housing
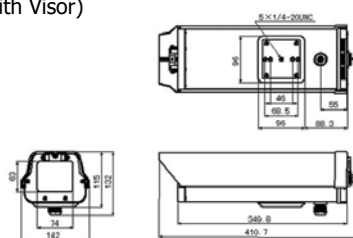• Dimensions: 15.5"L x 5.8"W x 4.3"H (With Visor)
• Latch Adjustable Camera Tray
• Heater & Blower Built-in

# BP0022-POE

## POE IP Camera IP66 Outdoor Housing

**Features:**
• POE standard meets IEEE-802.3af and IEEE2.3at
• Back Locking Latch
• Die cast Aluminum Construction
• Ideal for In/Outdoor Applications
• Extremely ease for Installation and Service
• IP66 Rated
• Long life expectancy Heater/Fan
• PoE Connections Inside Enclosure

**iPac™ Compatible**

**Specifications:**

| | |
|---|---|
| Exterior Dimension | 17(L) x 5(H) x 6(W) |
| Interior Dimension | 9(L) x 3.5(H) x 4(W) |
| Housing Security | Available, back locking latch |
| POE | POE 802.3af 48V DC standard |
| Bracket Size | 11(L) x 3.25(H) x 4(W) |
| Data transmission rate | 10/100 Mbps |
| Ethernet data line | TIA/EIA-568, Cat.-5 Cable |
| Hardware power grade | CLASS 4 |
| Polarity of input voltage | RJ45_4,5(+),7,8(-) OR 1,2(+/-)3,6(-/+) |
| Fan start | Temperature above 122°F(PS:1) |
| Heater start | Temperature below 59°F(PS:2) |
| Max power consumption | 13W |
| Stand by power consumption | 500 mW |
| Operating Temperature | -22°F ~ 144°F |
| Humidity | 0-95% (No Condensation) |
| Ethernet | Two RJ-45 (One Input, One Output) |
| Power indication | LED Indication |

## CCTV IR Illuminator

Turn your ordinary CCTV camera into a high powered night vision camera with Bolide's illuminator. An IR illuminator is a great idea for any camera that needs to see in the dark but where the installation of traditional lighting fixtures is not an option.

# BE-IR60/45

## High Power LED Infrared Illuminator

**Specifications:**

| LED | 198 PCS |
|---|---|
| LED Size | 10/24u |
| Power | 12VDC / 2000mA (IR Led Open) |
| IR Distance | 125 Meter / 400 Feet |
| IR Angle | 45° |
| Size | 200 x 168 x 143 mm |
| Weight | 1000g |
| Storage Temperature | -22°F ~ 140°F |
| Operation Temperature | 14°F ~ 122°F |

**Features:**
• Weather Resistance
• 198 pcs infrared LED
• IR range up to 450 feet
• 12VDC
• Ideal to transform any camera to night vision

# BE-IR50/160

## High Power Indoor LED Infrared Illuminator

**Specifications:**

| LED | 48 PCS |
|---|---|
| LED Size | 10/24u |
| Power | 12VDC / 1000mA (IR Led Open) |
| IR Distance | 50 Meter / 160 Feet |
| Size | 100 x 95 x 90 mm |
| Weight | 700g |
| Storage Temperature | -22°F ~ 140°F |
| Operation Temperature | 14°F ~ 122°F |
| Operation Temperature | 14°F ~ 122°F |

**Features:**
• Weather Resistance
• High power 48 pcs infrared LED
• IR range up to 160 feet
• 12VDC
• Ideal to transform any camera to night vision

# BE-IR150/10

## High Power LED Infrared Illuminator

**Specifications:**

| LED | 18 PCS |
|---|---|
| LED Size | 10/24u |
| Power | 12VDC / 1200mA (IR Led Open) |
| IR Distance | 150 Meter / 500 Feet |
| Size | 100 x 95 x 90 mm |
| Weight | 700g |
| Storage Temperature | -22°F ~ 140°F |
| Operation Temperature | 14°F ~ 122°F |
| Operation Temperature | 14°F ~ 122°F |

**Features:**
• Weather Resistance
• High power 18 pcs infrared LED
• IR range up to 500 feet
• 12VDC
• Ideal to transform any camera to night vision

# Bolide Aspherical Lens

Professional Made in Japan Lens for CCTV Cameras

**Mega Pixel Lens Specifications:**

| Model No. | Focal Length | Aperture | Mount | Angle of View |
|---|---|---|---|---|
| BP0019MP-8.0 | 3.5-8.0mm | 1.4 | CS | 96° - 42° |
| BP0019MP-22.0 | 9.0-22mm | 1.6 | CS | 40° - 18° |
| BP0019MP-550 | 5.0-50mm | 1.6 | CS | 75° - 8.0° |
| BP0019MP-60.0 | 6.0-60mm | 1.6 | CS | 76° - 8.8° |

**Fixed Lens Specifications:**

| Model No. | Focal Length | Aperture | Mount | Angle of View | M.O.D | Weight |
|---|---|---|---|---|---|---|
| BP0002-4 | 4.0mm | 1.6 | CS | 70.6° | 0.1m | 51g |
| BP0002-6 | 6.0mm | 1.6 | CS | 48.1° | 0.1m | 54g |
| BP0002-8 | 8.0mm | 1.6 | CS | 33.4° | 0.1m | 59g |
| BP0002-12 | 12.0mm | 1.6 | CS | 22.1° | 0.1m | 42g |
| BP0002-16.0 | 16.0mm | 1.6 | CS | 17.1° | 0.1m | 47g |
| BP0002-25.0 | 25.0mm | 1.6 | CS | 15.0° | 0.1m | 45g |
| BP0002-35.0 | 35.0mm | 1.6 | CS | 13.8° | 0.1m | 48g |

**Vari-Focal Auto Iris Lens Specifications:**

| Model No. | Focal Length | Aperture | Mount | Angle of View | M.O.D | Weight |
|---|---|---|---|---|---|---|
| BP0019-2812 | 2.8-12mm | 1.4 | CS | 95.6° - 22.1° | 0.1m | 156g |
| BP0019-3.5 | 3.5-8.0mm | 1.4 | CS | 81.9° - 35° | 0.1m | 104g |
| BP0019-1230 | 12.0-30.0mm | 1.6 | CS | 29.2° - 12.3° | 0.3m | 105g |
| BP0019-0660 | 6.0-60mm | 1.6 | CS | 49.3° - 4.7° | 0.2m | 167g |
| BP0019-05100 | 5.0-100mm | 1.8 | CS | 50.1° - 2.8° | 0.2m | 242g |

**Board Lens Specifications:**

| Model No. | Focal Length | Aperture | Mount | Angle of View | M.O.D | Weight |
|---|---|---|---|---|---|---|
| BP0001-3.6 | 3.6mm | 2.0 | 12*0.5 | 92° | 0.2 | 5 |
| BP0001-6.0 | 6.0mm | 2.0 | 12*0.5 | 54° | 0.2 | 5 |
| BP0001-8.0 | 8.0mm | 2.0 | 12*0.5 | 43° | 0.2 | 5 |
| BP0001-12.0 | 12.0mm | 2.0 | 12*0.5 | 29° | 0.2 | 5 |

# Professional Connectors

| Model | Description |
|-------|-------------|
| A. BP0005 | RCA female couple |
| B. BP0006 | RCA male to BNC female connector |
| C. BP0023 | RCA female to BNC male connector |
| D. BP0026 | BNC "T" connector |
| E. BP0027 | BNC female to BNC connector |
| F. BP0028 | Male RCA to male RCA coupler |
| G. BP0035 | BNC Twist-On male connector |
| H. BP0036 | BNC Crimp-On |

C.
D.
A.
B.
G.
E.
F.
H.

# Compression Connectors

**Features:**
• 360-degree true radial compression
• No Guesswork involved
• Water-proof ring included
  Available in RCA or BNC

BP0036/C    BP0023/C

# CMP Connectors/Tie

**Features:**
• CMP Rated Connectors
• For use with CMP cable only
• CMP Rated Ties also available

# Compression Tool

The Multi - Function Compression tool for BNC/RCA Connectors has a Durable Frame made out of black oxide steel along with interchangeable die sockets.

**Features:**
• Cable stripper
• Interchangeable die sockets
• Easy to use
*Please call about how to get your tools FREE

# Power Accessories

| Model | Description |
|-------|-------------|
| A. BE-DC | DC Power Connector |
| B. BE-DC/Fem-Fem | DC Female to Female Connector |
| C. BE-DIS/Mal-2Fem | DC Male to 2 Female Pigtail |
| D. BE-DIS/Mal-2Fem | DC Female to 2 Male Pigtail |
| E. BE-DIS/Mal-4Fem | DC Male to 4 Female Pigtail |
| F. BE-DC/MM | DC Male to Male Couple |
| G. BE-DC/F-4M | DC Female to 4DC Male |
| H. BP0029/12 | 24VAC to 12VDC Power Converter |

# BP0029

## 24 VAC Transformer 40VA

**Features:**
• 24VAC 40VA
• Ideal for PTZ camera

# BP0004/S

## 12 VDC Switching Power

**Features:**
• 12VDC Switching Power
• Comes in 2 different Amps
- 500mA or 1500mA
• Ideal for Bolide Cameras

# BP0004/5-4

## 12 VDC Power Supplies

**Features:**
• 12VDC 5 AMPS
• Supports up to 4 cameras
• Ideal for multiple cameras or
  IR cameras

# BP0004/5-PTC

## 4 Channel 12 VDC Power Supplies with PTC Fuse

**Features:**
• 4 Channel 5Amp Distribution System
• Built-in 6A PTC Fuse for Maximum Protection
• Adjustable Output Voltage for
Long Distance Transition, DC12V to 13.8V

### Specifications:

| | |
|---|---|
| Output Current / Power | 5A, 60W |
| Input Voltage | AC90V - AC264V |
| Output Voltage | Adjustable  DC12V ~ 13.8V |
| Output Channel | 4 Channels |
| Built-in PTC Fuse | 6A |
| Working Temperature | -22°F ~ 115°F |
| Operation Temperature | 14°F ~ 122°F |

# BP0049

## 24VAC Power Supplies

**Features:**
• Available in 100W/200W
• Support up to 18 Output
• On / Off switch
• Fault & AC on LEDs

# BP0050

## 12VDC 5/10/29AMP

**Features:**
• 12VDC, available in 5, 10, 29 Amps
• Support up to 18 Output
• On / Off switch
• Fault & DC on LEDs

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**Recorders**

**PTZ & Matrix**
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**Security**
**Cameras**

**Security**
**Monitors**

**Covert Cameras**

**Security**
**Accessories**

**91**

# BE8016/P, BE8016/P4, BE8016PVD

## Passive Video Baluns

**Features:**
• Passive Video Transceiver, No power required
• Color: 1000ft, B/W: 1500ft meters
• Use Cat5 UTP cables to transmit video signal
• Fast, easy installation and Superb quality

**Specifications:**

| | |
|---|---|
| Frequency response | DC-8MHz |
| CMRR | 60dB |
| Impedance | 75Ω |
| Connection terminal | 100Ω |
| Working Temperature | -22°F ~ 115°F |
| Operation Temperature | 14°F ~ 122°F |
| Video System | NTSC, PAL, SECAM and CCIR |
| Dimension | 51 x 30 x 17mm<br>104 x 80 x 27mm (4 channel) |
| Wire Requirement | UTP Cat5 or above |

# BE8016/AR, BE8016/AR4

## Active Video Baluns

**Features:**
• Up to 4500 ft with Passive Baluns
• Up to 7200 ft with Active Baluns
• Use Cat5 UTP cables to transmit video signal
• Fast, easy installation and Superb quality
• Adopt differential signal transmission with
  excellent anti-jamming ability
• Built-in transient suppression protection
• BE8016/AR4 supports up to 4 channels

**Specifications:**

| | |
|---|---|
| Frequency response | DC-8MHz |
| CMRR | 60dB |
| Impedance | 75Ω |
| Connection terminal | 100Ω |
| Working Temperature | -22°F ~ 115°F |
| Operation Temperature | 14°F ~ 122°F |
| Video System | NTSC, PAL, SECAM and CCIR |
| Dimension | 105 x 58 x 29mm<br>204 x 103 x 49mm (4 channel) |
| Power Supply | 12DC (Max: 200mA) |
| Wire Requirement | UTP Cat5 or above |

# Memo

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# BOLIDE
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