

SPECIALIZING IN

# LCD

✓ CCTV

✓ PRO AV

✓ COMMERCIAL

MONITORS

BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY



PROFESSIONAL DISPLAY SOLUTIONS

# ORION™

**OIC** ORION IMAGES  
CORPORATION

- ▶ 2.5" UP TO 70"
- ▶ VIDEO WALL
- ▶ SUNLIGHT READABLE
- ▶ LED BLU
- ▶ HD CCTV SOLUTION
- ▶ CUSTOMIZE / BUILD TO ORDER
- ▶ MOUNTS

PRODUCT CATALOG 2010

SECOND EDITION

WE SPECIALIZE IN

Built to Run **24 x 7 x 365** Continuously

DESIGNING, DEVELOPING

AND MANUFACTURING

**COMMERCIAL LCD** DISPLAYS



## WHO WE ARE

ORION Images Corporation (OIC) leads the industry in the design and development of commercial grade LCD monitors certified for use in demanding 24/7/365 operations. Built in our ISO 9001 certified factory, OIC monitors are designed to meet the diverse needs of CCTV, Pro A/V and Commercial users. Our manufacturing facility is located in Korea and our global headquarters is in Westminister, California. We have emerged as one of the fastest growing global manufacturers in the development and design of PCB's and LCD monitors. As the Original Equipment Manufacturer (OEM) we have the experience and buying power to provide state of the art monitors at competitive prices. We provide the best technology available using only the highest quality and most reliable components.

## WHAT WE DO

We specialize in designing, developing and manufacturing commercial LCD displays targeting a diverse range of market segments. Offering world class value, reliability and innovative technology in a wide range of screen sizes from 2.5" up to 70", OIC can provide your business with the products necessary to stand apart in today's market. Our highly specialized team is uniquely skilled in customizing monitors, offering extensive expertise in consulting, design & build, custom development and support to fit a variety of applications.

## WHY DO BUSINESS WITH ORION

Our monitors are not built like your traditional consumer monitors that are to be turned off every 8 – 10 hours and can only be warranted in residential applications. Our monitors are built to run 24/7/365 **CONTINUOUSLY** with FCC Class A commercial grade certification backed by a 2 year standard warranty. We have strong R&D and manufacturing capabilities, which enable us to control the quality of our products and processes every step of the way. We are flexible and respond quickly to ever changing market needs with new products designed and developed by our local in house engineering & design staff. Our team of customer service specialists provide the absolute best service possible. OIC continues to build on its reputation for superior technology, innovative solutions, competitiveness, performance and reliability.

## MARKET SEGMENTS

Retail – Financial - Transportation - Command & Control - Recreation - Entertainment - Military – Federal & Municipal - Government – Energy & Utilities - Gaming - Retail - Public Venue - Leisure - Hospitality - Lodging - Law Enforcement - Video Conferencing - Public Safety – Health Care - House of Worship - Education - Live Events and much more.



**BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY**

The ORION LCD Test monitors are ideal for troubleshooting during system set up. Identify problems as they happen, see real time data on your screen regarding performance and configuration during installation.

**TM****TEST & MOBILE SERIES**

SERIES	TM2	TM2P	TM4	TM5	TM7
DISPLAY					
Screen Size	2.5 Inch	2.5 Inch	4 Inch	5.6 Inch	7 Inch
Max. Resolution	480 x 240 Pixels	960 x 240 Pixels	480 x 234 Pixels	960 x 234 Pixels	1440 x 234 Pixels
Pixel Pitch	0.105 x 0.1575mm	0.0525 x 0.1575mm	0.171 x 0.264mm	0.118 x 0.361mm	0.107 x 0.370mm
Active Area	50.4(W) x 37.8(H)mm	50.4(W) x 37.8(H)mm	82.1(W) x 61.8(H)mm	113.3(W) x 84.7(H)mm	154.08(W) x 86.58(H)mm
Brightness	200cd/m <sup>2</sup>	230cd/m <sup>2</sup>	250cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>
Contrast Ratio	200 : 1	300 : 1	150 : 1	250 : 1	300 : 1
Pixel Type	Color TFT LCD	Color TFT LCD	Color TFT LCD	Color TFT LCD	Color TFT LCD
Viewing Angle (H/V)	120° / 75°	100° / 90°	90° / 90°	80° / 100°	120° / 70°
Display Color	Full Color	Full Color	Full Color	Full Color	Full Color
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE					
Input Interface	1 x Video input (BNC type)	1 x Video input (BNC type)	2 x Video Input (RCA Type)		
		1 x Video output (BNC type)	1 x Video Output (RCA Type)		
			1 x Audio Input (RCA Type)		
			1 x Audio Output (Jack Type)		
AUDIO					
Built-in Speakers	N/A	N/A	N/A	Yes	Yes
FEATURES					
Image Reverse	N/A	Left and Right Reverse	Left and Right Reverse		Left and Right Reverse Up and Down Reverse
Power Saving	Low Power Consumption	Auto sleep function	Low Power Consumption		Low Power Consumption
		Low battery Indication			NTSC / PAL Auto Detect
	3.7V rechargeable battery	9V Regular AAA battery x 6	Battery On / Off Switch		Battery On / Off Switch
Test pattern Generator	N/A	Color Bar / Gray Scale Chart	N/A	N/A	N/A
DIMENSION					
Outline Dimension	3.34"W x 2.52"H x 0.82"D	3.86"W x 2.755"H x 1.81"D	5.47"W x 4.53"H x 1.42"D	6.67"W x 5.36"H x 1.42"D	7.70"W x 3.35"H x 1.42"D
Net. Weight	0.22lbs	0.4lbs	1.5lbs	2.5lbs	2.7lbs
Gross Weight	N/A	N/A	3lbs	4lbs	4lbs
CABINET					
Color / Material	Black / Plastic	Black / Plastic	Black / Metal	Black / Metal	Black / Metal
WARRANTY					
Part / Labor	18 months / 18 months	18 months / 18 months	18 months / 18 months	18 months / 18 months	18 months / 18 months
POWER					
Consumption: < On	< 3W	< 4.3W	< 5W	< 7W	< 7W
Power Type	110 / 220V AC to 5V DC	AAA Battery(1.5V DC) x 6	AC110 ~ 220V to 12V DC Power Supply		
	DC 3.7V / 1000mA		DC12V / 340mA	DC12V / 520mA	DC12V / 520mA
FUNCTION					
Working Function	Wrist strap	Wrist strap	Hanging or Waist		
			Incline Supporter		
ACCESSORIES					
Package Contents	3.7V battery x 1	Wrist Strap x 1	Rechargeable Battery x 1		
	Wrist strap x 1	AV input Cable x 1	Carry Bag x 1		
	5V DC Charger	AV output Cable x 1	Adapter x 1		
	RCA to Mini Din Video cable		Power Cord x 1		
	RCA to BNC connector x 1		Carry Belt x1, 1 x Waist Belt x 1		
			RCA to BNC Connector x 3		
* Design and Specs are subject to change without any notice					

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**NEW TEST & MOBILE**

Video output test pattern: Color bar chart & gray scale chart (Test cable broken circuit, short circuit function)



Quarter View



Side View

Robust, compact and cost effective rack ready monitors feature 90° tilt capability and a steel enclosure with removable chrome handles for ease of tilting and movement from one rack to another. Available in 15", 17", 19" sizes to accommodate many configurations. Ideal for server racks, cabinets, room controls, and security monitoring solutions.

SERIES	15RCR	17RCR	19RCR
DISPLAY			
Screen Size	15 Inch	17 Inch	19 Inch
Max. Resolution	1024 x 768 @ 60Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz
Pixel Pitch	0.297 x 0.297mm	0.264 x 0.264mm	0.294 x 0.294mm
Brightness	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>
Contrast Ratio	700 : 1	800 : 1	800 : 1
Aspect Ratio	4 : 3	5 : 4	5 : 4
Viewing Angle (H/V)	140°/ 125°	160°/ 160°	160°/ 160°
Display Color	16.2 Million	16.7 Million	16.7 Million
Response Time	< 8ms	< 5ms	< 5ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL
Frequency (H)	31~48 KHz(H)	50~64 KHz(H)	50~64 KHz(H)
Frequency (V)	55~75 KHz(V)	55~75 KHz(V)	55~75 KHz(V)
INTERFACE			
BNC Video In / Out	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1
Audio Input (RCA)	1	1	1
PC Stereo In	1	1	1
TRANSMITTER			
Remote Control	Yes	Yes	Yes
AUDIO			
Built-in Speakers	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)
FEATURES			
Filter Type	2D Comb Filter	3D Comb Filter / Deinterlace	3D Comb Filter / Deinterlace
Multi Language	English, Spanish, French	English, Spanish, French, German, Italian	
DIMENSION			
Outline Dimension	18.9"W x 12.12"H x 3.43"H	18.9"W x 13.9"H x 3.7"D	18.9"W x 13.9"H x 3.7"D
Net. Weight	9.48lbs (4.3Kg)	12.7lbs (5.76Kg)	14lbs (6.35Kg)
CABINET			
Material / Color	Steel / Black	Steel / Black	Steel / Black
Tilt Function	Yes	Yes	Yes
WARRANTY			
Part/Labor	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	30,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS			
Electronic	RoHs, TUV NRTL, CB, FCC(A), CE-Emc(LVD)		
POWER			
Consumption: < On	< 35W	< 40W	< 42W
Electrical Ratings	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
	DC12V / 3A	DC12V / 3.5A	DC12V / 3.5A
CIRCUMSTANCE			
Operating Temperature	0 ~ 50°C / 32 ~ 122°F		
Mounts			
Form Factor	6U Rack Mounting	7U Rack Mounting	7U Rack Mounting
Mount Type	Tilttable Rack Mount	Tilttable Rack Mount	Tilttable Rack Mount
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## CAPABILITY

RCR Series has tilt capability of 90 degrees forwards and 90 degrees backwards.



90°



90°





# BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY

Public View Monitor with built in camera and motion detection sensor becomes a highly effective theft deterrent tool creating awareness that a security surveillance system is in place. The optional built in media card reader turns your loss prevention display into an advertising and marketing tool using pre loaded marketing material that can loop continuously.

# PVM

## PUBLIC VIEW MONITOR SERIES

# BUILT IN CAMERA

SERIES	20PVMVE	20PVMV	26PVMV	32PVMV
DISPLAY				
Screen Size	20.1 Inch	20.1 Inch	26 Inch	32 Inch
Max. Resolution	640 x 480 @ 60Hz	640 x 480 @ 60Hz	1366 x 768 @ 60Hz	1366 x 768 @ 60Hz
Pixel Pitch	0.637 x 0.637mm	0.637 x 0.637mm	0.4215 x 0.4215mm	0.51 x 0.51mm
Brightness	300cd/m²	300cd/m²	450cd/m²	450cd/m²
Contrast Ratio	800 : 1	800 : 1	4000 : 1	4000 : 1
Aspect Ratio	4 : 3	4 : 3	16 : 9	16 : 9
Viewing Angle (H/V)	178° / 178°	178° / 178°	178° / 178°	178° / 178°
Display Color	16.2 Million	16.2 Million	16.7 Million	16.7 Million
Response Time	< 25ms	< 25ms	< 8ms (G to G)	< 8ms (G to G)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE				
BNC Video In / Out	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)	2 / 3 (Include Camera Out)	2 / 3 (Include Camera Out)
VGA In (15Pin D-Sub)	1	1	1	1
S-Video In / Out	1 / 1	1 / 1	1 / 1	1 / 1
DVI-D In / HDMI In	0 / 0	0 / 0	1 / 1	1 / 1
Audio In (RCA)	2 (L+R)	2 (L+R)	3	3
Component In	0	0	1	1
PC Stereo In	0	0	1	1
TRANSMITTER				
Remote Control	Yes	Yes	Yes	Yes
AUDIO				
Built-in Speakers	Yes (2W x 2)	Yes (2W x 2)	Yes (4W x 2)	Yes (4W x 2)
FEATURES				
Filter Type	2D Comb Filter	3D Comb Filter / Deinterlace / Noise Reduction	3D Comb Filter / Deinterlace / Noise Reduction	3D Comb Filter / Deinterlace / Noise Reduction
LCD Protective Shield	Yes	Yes	Yes	Yes
Multi Display Function	N/A	N/A	PIP / PBP	PIP / PBP
Multi Language	English, Spanish, French	English, Spanish, French, German, Italian	English, Spanish, French, German, Italian	English, Spanish, French, German, Italian
Motion Detection	Microwave Motion Sensor (10~30 feet)			
Auto Source Sequencing	N/A	Yes	Yes	Yes
DIMENSION				
Outline Dimension	18.93"W x 18.02"H x 2.92"D	18.93"W x 18.02"H x 2.92"D	26.5"W x 18.42"H x 4.52"D	31.78"W x 21.46"H x 4.52"D
Net. Weight	20.3lbs (9.2Kg)	20.5lbs (9.3Kg)	40.8lbs (18.5Kg)	46.3lbs (21Kg)
CABINET				
Material / Color	Metal / Black	Metal / Black	Metal / Black	Metal / Black
WARRANTY				
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS				
Electronic	RoHS,TUV-NRTL, CB, FCC(A), CE-Emc(LVD)			
POWER				
Consumption: < On	< 60W	< 60W	< 135W	< 150W
Electrical Ratings	AC100 ~ 240V(50/60Hz) and DC 12V / 5A		AC100 ~ 240V(50/60Hz) and DC 24V	AC100 ~ 240V(50/60Hz) and DC 24V
CIRCUMSTANCE				
Operating Temperature	0 ~ 50°C / 32 ~ 122°F			
MOUNTS				
VESA™ Mount Size	100 x 100 (BS M4 x 10mm Screw)		200 x 200 (BS M6 x 16mm Screw)	
Wall / Ceiling	WB-05, WB-10, WB-30, WB-31 / CMK-01		WB-2642 / CMK-01 with FMA-01	
CAMERA				
Camera Type	Normal	WDR	WDR	WDR
Image Sensor	1/3" Inter Line Transfer type color CCD	1/3" PIXIM ORCA CMOS	1/3" PIXIM ORCA CMOS	1/3" PIXIM ORCA CMOS
Mechanical Design	Tilt Swivel Camera	Tilt Swivel Camera	Tilt Swivel Camera	Tilt Swivel Camera
Pixel System	Sony CCD	PIXIM Digital	PIXIM Digital	PIXIM Digital
Auto Gain Control	More than 50dB (AGC off)	More than 53dB	More than 53dB	More than 53dB
Resolution	Horizontal : 540 TV Lines	Horizontal : 540 TV Lines	Horizontal : 540 TV Lines	Horizontal : 540 TV Lines
Lens Mount	4~9mm Vari-focal Lens(F=1.5)	2.8~10mm Vari-focal Lens(F=1.2)	2.8~10mm Vari-focal Lens(F=1.2)	2.8~10mm Vari-focal Lens(F=1.2)
Sensitivity	0.15 Lux (40 IRE)	0.08 Lux (DSS mode) with F1.2 Lens	0.08 Lux (DSS mode) with F1.2 Lens	0.08 Lux (DSS mode) with F1.2 Lens
Electronic Shutter	1/60 ~ 1/100,000 Sec	1/60 ~ 1/100,000 Sec	1/50 ~ 1/100,000 Sec	1/60 ~ 1/100,000 Sec
CARD READER				
Media Card Reader	PVMP Professional Series / Call for Details			
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The VGA & Economy series offers an affordable solution to your surveillance applications. With intuitive features, ultra thin design and impressive technology making complete array of multi source options and high performance features like 2D Comb Filter technology which minimizes ghosting in motion video this series fits any tight budget.

SERIES	17RTL	19RTL	17RCM	19RCM
DISPLAY				
Screen Size	17 Inch	19 Inch	17 Inch	19 Inch
Max. Resolution	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 60Hz	1280 x 1024 @ 60Hz
Pixel Pitch	0.264 x 0.264mm	0.294 x 0.294mm	0.264 x 0.264mm	0.294 x 0.294mm
Brightness	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>
Contrast Ratio	600 : 1	700 : 1	800 : 1	800 : 1
Aspect Ratio	4 : 3	4 : 3	4 : 3	4 : 3
Viewing Angle (H/V)	170°/ 170°	170°/ 170°	160°/ 160°	160°/ 160°
Display Color	16.7 Million	16.7 Million	16.7 Million	16.7 Million
Response Time	< 8ms	< 8ms	< 5ms	< 5ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE				
BNC Video In / Out	N/A	N/A	2 / 2	2 / 2
S-Video In / Out	N/A	N/A	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1
Audio In (RCA)	N/A	N/A	2 (L+R)	2 (L+R)
PC Stereo In	N/A	1	1	1
TRANSMITTER				
Remote Control	N/A	N/A	Optional	Optional
AUDIO				
Built-in Speakers	N/A	Yes	Optional	Optional
FEATURES				
Filter Type	N/A	N/A	2D Comb Filter	2D Comb Filter
Anti-Glare Hard Coating	Yes	Yes	N/A	N/A
Multi Language	English, Dutch, Spanish, French, Korean	English, Dutch, Spanish, French, Korean	English, French, Dutch, Spanish, Italian, Japanese, Korean	English, French, Dutch, Spanish, Italian, Japanese, Korean
DIMENSION				
Outline Dimension (w/o stand)	14.88"W x 12.71"H x 2.36"D	16.5"W x 14.7"H x 2.28"D	14.88"W x 12.71"H x 2.36"D	16.5"W x 14"H x 2.44"D
Net. Weight	7.9lbs (3.6Kg)	13.2lbs (6.0Kg)	9.92lbs (4.5Kg)	11.24lbs (5.1Kg)
CABINET				
Material / Color	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black
Desk Top Stand	Yes	Yes	Yes	Yes
Tilt Function	Yes	Yes	Yes	Yes
WARRANTY				
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	30,000 Hours	30,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS				
Electronic	RoHS, UL, FCC(B), TUV/GS , CE, RRL		RoHS, UL, CB, FCC (A), CE-Emc (LVD)	
POWER				
Consumption: < On	< 35W	< 35W	< 35W	< 40W
Electrical Ratings	AC110 ~ 230V(50/60Hz)	AC110 ~ 230V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
Power Consumption	DC12V / 3.5A	DC12V / 3.7A	DC12V / 3A	DC12V / 3.5A
CIRCUMSTANCE				
Operating Temperature	0 ~ 50°C / 32 ~ 122°F		0 ~ 50°C / 32 ~ 122°F	
MOUNTS				
VESA™ Mount Size	100 x 100mm (BS M4 x 10mm Screw)		100 x 100mm (BS M4 x 10mm Screw)	
Wall	WB-5, WB-10, WB-30, WB-31		WB-5, WB-10, WB-30, WB-31	
Ceiling	CMK-01		CMK-01	
Rack	RMK-08		RMK-08	
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## CAPABILITY

RTLB & RCM Series base stand is dual hinged with the capability to fold and collapse, or be easily removed.



Stand Fold in Half



Stand Fold in Flat



# BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY

The Value series 15RTV, 17RTV, 19RTV, 26RTV & 32RTV series are a step up from the RCM series with added features like 3D Comb Filter, Deinterlace, and Noise Reduction. when all three are combined fix sharpens the lines, takes the blur / noise out from around the images and minimizes ghosting in motion video for a more detailed, clearer

# RTV

## VALUE SERIES

SERIES	15RTV	17RTV	19RTV	26RTV	32RTV
DISPLAY					
Screen Size	15 Inch	17 Inch	19 Inch	26 Inch	32 Inch
Max. Resolution	1024 x 768 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz	1366 x 768 @ 60Hz	1366 x 768 @ 60Hz
Brightness	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>	450cd/m <sup>2</sup>	500cd/m <sup>2</sup>
Contrast Ratio	700 : 1	800 : 1	800 : 1	1000 : 1	1200 : 1
Aspect Ratio	4 : 3	4 : 3	4 : 3	16 : 9	16 : 9
Viewing Angle (H/V)	140°/ 125°	160°/ 160°	160°/ 160°	178°/ 178°	178°/ 178°
Response Time	< 8ms	< 5ms	< 5ms	< 8ms (Gray to Gray)	< 8ms (Gray to Gray)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE					
BNC Video In / Out	1 / 1	2 / 2	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1	1
Audio In (RCA)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)
PC Stereo In	1	1	1	1	1
TRANSMITTER					
Remote Control	Optional	Yes	Yes	Yes	Yes
AUDIO					
Built-in Speakers	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)	Yes (10W x 2)	Yes (10W x 2)
FEATURES					
Auto Pixel Shift	N/A	N/A	N/A	Yes	Yes
Enhanced Picture	2D Comb Filter	3D Comb Filter / Deinterlace / NR	3D Comb Filter / Deinterlace / NR	3D Comb Filter / Deinterlace / NR	3D Comb Filter / Deinterlace / NR
Power Save / Sleep Mode	N/A	Yes	Yes	Yes	Yes
Composite Time Cycle	N/A	Yes	Yes	Yes	Yes
LCD Protection Glass	N/A	Yes	Yes	N/A	N/A
Multi Language	English, Spanish, French	English, French, German, Spanish, Italian, Dutch, Swedish, Finnish, Danish, Portuguess, Russian, Turkish, Japanese, Korean			
DIMENSION					
Outline Dimension (w/o stand)	14.1"W x 11.14"H x 2.3"D	14.88"W x 12.71"H x 2.36"D	16.5"W x 14"H x 2.44"D	26.18"W x 19.49"H x 4.1"D	31.37"W x 21.65"H x 4.3"D
Net. Weight	5.1lbs (2.3Kg)	10.8lbs (4.9Kg)	11.9lbs (5.4Kg)	21.82lbs (9.9Kg)	29.76lbs (13.5Kg)
CABINET					
Material / Color	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black
Desk Top Stand	Yes	Yes	Yes	Yes	Yes
Tilt Function	Yes	Yes	Yes	Yes	Yes
WARRANTY					
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	30,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS					
Electronic	RoHS, TUV-NRTL, CB, FCC(A), CE-Emc(LVD)	RoHs, UL , CB, FCC(A), CE-Emc(LVD)		RoHs, TUV NRTL, CB, FCC(A), CE-Emc(LVD)	
POWER					
Consumption: < On	< 35W	< 40W	< 45W	< 95W	< 140W
Electrical Ratings	AC100 ~ 240V(50/60Hz) DC12V / 3A	AC100 ~ 240V(50/60Hz) DC12V / 3.4A	AC100 ~ 240V(50/60Hz) DC12V / 3.8A	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
CIRCUMSTANCE					
Operating Temperature	0 ~ 50°C / 32 ~ 122°F				
MOUNTS					
VESA™ Mount Size	75 x 75mm (BS M4 x 10mm Screw)	100 x 100mm (BS M4 x 10mm Screw)		200 x 100mm (BS M4 x 16mm Screw)	400 x 200mm (BS M5 x 16mm Screw)
Wall	WB-5, WB-10, WB-30, WB-31	WB-5, WB-10, WB-30, WB-31		WB-5, WB-10, WB-30, WB-31, FMA-01	WB-2642
Ceiling	CMK-01	CMK-01		CMK-01 with FMA-01	CMH-01
Rack	RMK-08	RMK-08		N/A	N/A
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The ORION PREMIUM Series is our high performance, feature rich monitor line with an All Metal Cabinet, PIP / PBP, Dual Signal In, Auto Source Sequencing (up to 7 sources), Trigger Alarm / Sensor, 3D Comb Filter, Deinterlace, Noise Reduction, and LCD Protection Glass. This series has the versatility and configuration options you need to support your security surveillance applications.

SERIES	8RTC	8RTF	10RTC	15RTC	17RTC	19RTC	20RTC	20RTH
DISPLAY								
Screen Size	8.4 Inch	8.4 Inch	10 Inch	15 Inch	17 Inch	19 Inch	20.1 Inch	20.1 Inch
Max. Resolution	800 x 600 @ 75Hz	800 x 600 @ 75Hz	800 x 600 @ 75Hz	1024 x 768 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz	640 x 480 @ 75Hz	1600 x 1200 @ 60Hz
Brightness	250cd/m²	250cd/m²	250cd/m²	250cd/m²	250cd/m²	250cd/m²	300cd/m²	300cd/m²
Contrast Ratio	500 : 1	600 : 1	400 : 1	700 : 1	800 : 1	800 : 1	800 : 1	800 : 1
Aspect Ratio	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3
Viewing Angle (H/V)	140°/ 120°	160°/ 140°	130°/ 105°	140°/ 125°	170°/ 160°	170°/ 160°	178°/ 178°	178°/ 178°
Response Time	< 25ms	< 30ms	< 25ms	< 8ms	< 5ms	< 5ms	< 25ms	< 16ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE								
BNC Video In / Out	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 0	1 / 0	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1	1	1	1	1
Component	N/A	N/A	N/A	N/A	1	1	N/A	1
DVI-D In / HDMI In	N/A	N/A	N/A	N/A	1 / 1	1 / 1	N/A	1 / 1
Audio In (RCA)	1	1	1	2(L+R)	3(L+R)	3(L+R)	1(L+R)	3(L+R)
PC Stereo In	1	1	1	1	1	1	1	1
TRANSMITTER								
Remote Control	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO								
Built-in Speakers	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)	Yes (2W x 2)
FEATURES								
Picture In Picture (PIP) Picture By Picture (PBP)	N/A	N/A	N/A	N/A	Analog / Digital	Analog / Digital	N/A	Analog / Digital
	N/A	N/A	N/A	N/A	BNC / BNC	BNC / BNC	N/A	BNC / BNC
Auto Pixel Shift	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Filter Type	2D Comb filter	2D Comb filter	3D Comb Filter	3D Comb Filter	3D Comb Filter	3D Comb Filter	2D Comb filter	3D Comb Filter
Deinterlacing	N/A	N/A	Yes	Yes	Yes	Yes	N/A	Yes
Noise Reduction	N/A	N/A	N/A	N/A	Yes	Yes	N/A	Yes
LCD Protection Glass	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
Trigger Sensor	Yes (NO / NC)	Yes (NO / NC)	Yes NO / NC)	Yes (NO / NC)	Yes (NO / NC)	Yes (NO / NC)	N/A	Yes (NO / NC)
Auto Source Sequencing	N/A	N/A	N/A	N/A	Yes	Yes	N/A	Yes
Multi Language	English, Spanish, French		English, Spanish, French, German, Italian				English, Spanish, French	English, Spanish, French, German, Italian
DIMENSION								
Outline Dimension	8.07"W x 7.12"H x 2.24"D	8.34"W x 7.48"H x 2.24"D	10.4"W x 8.94"H x 1.9"D	13.7"Wx 11.7"H x 2.3"D	14.9"W x 13.2"H x 2.69"D	16.5"W x 14.4"H x 2.7"D	17.9"W x 15"H x 2.7"D	17.9"W x 15"H x 3.23"D
Net. Weight	4.41lbs (2.0Kg)	4.41lbs (2.0Kg)	5.4lbs (2.49Kg)	10.58lbs (4.79Kg)	12.78lbs	15.43lbs (6.99Kg)	17.6lbs (7.98Kg)	18.3lbs (7.98Kg)
CABINET								
Material / Color	Electronic galvanized Iron / Black							
Desk Top Stand	Til Back							
WARRANTY								
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	20,000 Hours	30,000 Hours	20,000 Hours	30,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS								
Electronic	RoHS, TUV NRTL , CB, FCC(A), CE-Emc(LVD)							
POWER								
Consumption: < On	< 20W	< 20W	< 20W	< 35W	< 40W	< 45W	< 55W	< 60W
Electrical Ratings	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
	DC12V / 1.5A	DC12V / 1.5A	DC12V / 3A	DC 12V / 3A	DC 12V / 3.5A	DC 12V / 4.1A	DC 12V / 5A	DC 24V / 2.5A
CIRCUMSTANCE								
Operating Temperature	10 ~ 40°C / 50 ~ 104°F							
MOUNTS								
VESA™ Mount Size	75 x 75mm (BS M4 x 10mm Screw)				100 x 100mm (BS M4 x 8mm Screw)			
Wall	WB-5, WB-10, WB-30, WB-31							
Ceiling	CMK-01	CMK-01	CMK-01	CMK-01	CMK-01	CMK-01	CMK-01	CMK-01
Rack	RMK-08	RMK-08	RMK-08	RMK-08	RMK-08	RMK-08	RMK-08	RMK-08
* Design and Specifications are subject to change without notice								



**BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY**

The ORION PREMIUM WIDE Series is our high performance, feature rich monitor line with an All Metal Cabinet, PIP / PBP, Dual Analog In, Auto Source Sequencing (up to 7 sources), Trigger Alarm / Sensor, 3D Comb Filter, Deinterlace, Noise Reduction, and LCD Protection Glass. This series has the versatility and configuration options you need to support your security surveillance applications.

**RTC****PREMIUM WIDE SERIES**

SERIES	22RTC	24RTC	26RTC	32RTC	42RTC	42RTH
DISPLAY						
Screen Size	22 Inch	24 Inch (Full HD)	26 Inch	32 Inch	42 Inch	42 Inch (Full HD)
Max. Resolution	1680 x 1050 @ 60Hz	1920 x 1200p @ 60Hz	1366 x 768 @ 60Hz	1366 x 768 @ 60Hz	1366 x 768 @ 60Hz	1920 x 1080p @ 60Hz
Brightness	300cd/m <sup>2</sup>	300cd/m <sup>2</sup>	450cd/m <sup>2</sup>	450cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>
Contrast Ratio	800 : 1	800 : 1	4000 : 1	4000 : 1	1100 : 1	1000 : 1
Aspect Ratio	16 : 10	16 : 10	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	160°/ 160°	160°/ 160°	178°/ 178°	178°/ 178°	178°/ 178°	178°/ 178°
Response Time	< 5ms	< 5ms	< 8ms (Gray to Gray)	< 8ms (Gray to Gray)	< 5ms (Gray to Gray)	< 9ms (Gray to Gray)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE						
BNC Video In / Out	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1	1	1
Component In	1	1	1	1	1	1
DVI-D In / HDMI In	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio In (RCA)	3(L+R)	3(L+R)	3(L+R)	3(L+R)	3(L+R)	3(L+R)
PC Stereo In	1	1	1	1	1	1
TRANSMITTER						
Remote Control	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO						
Built-in Speakers	Yes (2W x 2)	Yes (2W x 2)	Yes (4W x 2)	Yes (4W x 2)	Yes (4W x 2)	Yes (4W x 2)
FEATURES						
Picture In Picture (PIP)	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital
Picture By Picture (PBP)	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC
Auto Pixel Shift	Yes	Yes	Yes	Yes	Yes	Yes
Filter Type	3D Comb Filter	3D Comb Filter	3D Comb Filter	3D Comb Filter	3D Comb Filter	3D Comb Filter
Deinterlacing	Yes	Yes	Yes	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes
LCD Protection Glass	Yes	Yes	Yes	Yes	N/A	N/A
Trigger Sensor	Yes (NO / NC)	Yes (NO / NC)	Yes (NO / NC)	Yes (NO / NC)	Yes (NO / NC)	Yes (NO / NC)
Auto Source Sequencing	Yes	Yes	Yes	Yes	Yes	Yes
Multi Language	English, Spanish, French, German, Italian					
DIMENSION						
Outline Dimension (w/o Stand)	19.9"W x 14.4"H x 3.15"D	22"W x 15.5"H x 3.4"D	25.5"W x 16.3"H x 4.4"D	31.1"W x 19.0"H x 4.4"D	40.3"W x 27"H x 4.7"D	40.3"W x 27"H x 4.7"D
Outline Dimension (w/ stand)	19.2"W x 14.4"H x 5.19"D	22."W x 15.5"H x 5.5"D	25.5"W x 16.3"H x 11.0"D	31.1"W x 19.0"H x 11.0"D	40.3W x 27"H x 11.7"D	40.3"W x 27"H x 11.7"D
Net. Weight (w/ Stand & w/o Stand)	18.5lbs / 16.76lbs	19.0lbs	44.1lbs / 33.07bs	52.9lbs / 41.89lbs	74.96 / 57.32lbs	77.1lbs / 57.32lbs
CABINET						
Material / Color	Electronic galvanized Iron / Black					
Desk Top Stand	Tilt Back					
WARRANTY						
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS						
Electronic	RoHS, TUV NRTL, CB, FCC(A), CE-Emc(LVD)					
POWER						
Consumption: < On	< 60W	< 60W	< 120W	< 150W	< 230W	< 232W
Electrical Ratings	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
	DC 12V / 6.5A	DC 12V / 7.5A				
CIRCUMSTANCE						
Operating Temperature	10 ~ 40°C / 50 ~ 104°F					
MOUNTS						
VESA™ Mount Size	100 x 100mm (BS M4 x 10mm)	100 x 100mm (BS M4 x 10mm)	200 x 200mm (BS M6 x 16mm)	200 x 200mm (BS M6 x 16mm)	200 x 200mm (BS M6 x 16mm Screw)	
Wall	WB-05, WB-10, WB-30, WB-31	WB-05, WB-10, WB-30, WB-31	WB-31 w/ FMA-01, WB-2642	WB-31 w/ FMA-01, WB-2642	WB-2642	
Ceiling	CMK-01	CMK-01	CMK-01 w/ FMA-01	CMK-01 w/ FMA-01	CMH-01	
* Design and Specifications are subject to change without notice						

# PREMIUM NARROW SERIES

# NL

## BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY

The Premium Narrow Bezel series is the perfect solution for applications that require high performance and reliability in a cost effective, space efficient platform. Built solid and certified for 24/7/365 continuous use, the Premium Narrow series is ideal for use in demanding environments that require around the clock operation. Full High Definition 1920x1080p performance brings images to life with vivid, true-to-life detail.

# VIDEO WALL



SERIES	40NL	46NL	46SNL	52NL	55NL	65NL	70NL
DISPLAY							
Screen Size	40 inch	46 inch	46 inch	52 inch	55 inch	65 inch	70 inch
Bezel Width	10mm	11mm	7.3mm (Side by Side)	13mm	34.2 (W) / 28.3 (H)mm	33.7 (W) / 31.7 (H)mm	36.2 (W) / 34.2 (H)mm
Max. Resolution	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 120Hz	1920 x 1080 @ 60Hz
Active Display Area	885.6 x 498.15mm	1018.08 x 572.67mm	1018.353 x 572.544mm	1192.0 x 688.0mm	1209.6 x 680.4mm	1428.48 x 803.52mm	1549.44 x 871.56mm
Brightness	700cd/m <sup>2</sup>	700cd/m <sup>2</sup>	700cd/m <sup>2</sup>	700cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>	600cd/m <sup>2</sup>
Contrast Ratio	3000 : 1	4000 : 1	3000 : 1	2000 : 1	1400 : 1	5000 : 1	2000 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	178°/ 178°	178°/ 178°	178°/ 178°	178°/ 178°	178°/ 176°	178°/ 178°	178°/ 178°
Response Time	8 bit - 16.7 Million	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 5.5ms (G to G)	< 8ms (G to G)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE							
BNC Video In / Out	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1	1	1	1
Component In	1	1	1	1	1	1	1
DVI-D In / HDMI In	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio In (RCA)	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)
PC Stereo In	1	1	1	1	1	1	1
RS232 In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
TRANSMITTER							
IR Remote Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO							
Built-in Speakers	4W x 2	4W x 2	4W x 2	4W x 2	4W x 2	4W x 2	4W x 2
FEATURES							
Picture In Picture(PIP) Picture By Picture(PBP)	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital
	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC
Auto Pixel Shift	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Enhanced Picture	3D Comb Filter / Deinterlace / Noise Reduction						
Trigger Source switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Noise Reduction control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto source sequencing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi Language	English, Spanish, French, German, Italian						
RS-232C Control	Monitor OSD control using PC						
DIMENSION							
Outline Dimension	35.95"W x 20.76"Hx 4.55"D	41.35"W x 23.75"H x 4.76"D	40.38"W x 22.82"H x 4.52"D	46.9"W x 27.08"H x 5.2"D	49.8"W x 29.15"H x 5.05"D	59.44"W x 34.64"H x 5.43"D	64.25"W x 37.56"H x 5.7"D
Net. Weight	53.3lbs (24.2Kg)	71.0lbs (32.2Kg)	66.6lbs (30.2Kg)	105.8lbs (48Kg)	117lbs (65.7Kg)	135lbs (61.2Kg)	161lbs (73.0Kg)
WARRANTY							
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS							
Electronic	RoHS, TUV-NRTL (=UL), CB, FCC (A), CE-Emc (LVD)						
POWER							
Electrical Ratings	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
Power consumption	< 220W	< 260W	< 260W	< 320W	< 330W	< 500W	< 1100W
CIRCUMSTANCE							
Operating Temperature	0 ~ 50°C / 32 ~ 122°F						
MOUNTS							
VESA™ Mount Size	400 x 200mm	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm	800 x 600mm	800 x 600mm
Video Wall	WFS, WES, WSR	WFS, WES, WSR	WFS, WES, WSR	WFS, WES, WSR	WFS, WES, WSR	WFS, WES, WSR	WFS, WES, WSR
Stand Alone	WB-2642	WB-4663	WB-4663	WB-4663	WB-4663	WB-4780	WB-4780
* Design and Specifications are subject to change without notice							

\* Design and Specifications are subject to change without notice



**BUILT TO RUN 24 X 7 X 365 CONTINUOUSLY**

Available from 8" up to 52" these Transflective enhanced anti-glare displays are readable under all lighting conditions including direct or indirect sunlight - the stronger the ambient light the brighter the image. The advantage of Transflective technology is that there is no extra heat generation lower power consumption, contrast and brightness is naturally brighter to help preserve the life of the back light.

**SR****SUNLIGHT READABLE SERIES****SUNLIGHT READABLE**

SERIES	32RTCSR	42RTCSR	42RTHSR	46NLSR	46NLHSR	52NLSR
DISPLAY						
Screen Size	32 Inch	42 Inch	42 Inch	46 Inch	46 Inch	52 Inch
Max. Resolution	1366 x 768 @ 60Hz	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz
Active Display Area	697.685 x 392.256 mm	930.25 x 523.01 mm	930.25 x 523.01mm	1018.353 x 572.544mm	1018.08 x 572.67mm	1152 x 648mm
Brightness (Outdoor)	1400cd/m <sup>2</sup>	2000cd/m <sup>2</sup>	1500cd/m <sup>2</sup>	3000cd/m <sup>2</sup>	1400cd/m <sup>2</sup>	2000cd/m <sup>2</sup>
Brightness (Indoor)	850cd/m <sup>2</sup>	1340cd/m <sup>2</sup>	1000cd/m <sup>2</sup>	2400cd/m <sup>2</sup>	950cd/m <sup>2</sup>	1340cd/m <sup>2</sup>
Contrast Ratio	4000 : 1	1030 : 1	1100 : 1	2900 : 1	3800 : 1	2900 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	176° / 176°	178° / 178°	178° / 178°	176° / 176°	178° / 178°	178° / 178°
Response Time	<16ms (Rt + Ft)	< 9ms(Rt + Ft)	< 9ms(Rt + Ft)	< 16ms(Rt + Ft)	< 16ms(Rt + Ft)	< 22ms(Rt + Ft)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE						
BNC Video In / Out	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1	1	1
Component In	1	1	1	1	1	1
DVI-D In / HDMI In	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio In	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)	3 (L + R)
PC Stereo In	1	1	1	1	1	1
RS232 In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
	Max. ID and connection: 1~99.	Max. ID and connection: 1~99.	Max. ID and connection: 1~99.	Max. ID and connection: 1~99.	Max. ID and connection: 1~99.	Max. ID and connection: 1~99.
	Max cable length (RS-232C): 49.2'	Max cable length (RS-232C): 49.2'	Max cable length (RS-232C): 49.2'	Max cable length (RS-232C): 49.2'	Max cable length (RS-232C): 49.2'	Max cable length (RS-232C): 49.2'
TRANSMITTER						
IR Remote Control	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO						
Built-in Speakers	4W x 2	4W x 2	4W x 2	4W x 2	4W x 2	4W x 2
FEATURES						
Picture In Picture (PIP) Picture By Picture (PBP)	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital	Analog / Digital
	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC	BNC / BNC
Auto Pixel Shift	Yes	Yes	Yes	Yes	Yes	Yes
Enhanced Picture	3D Comb Filter / Deinterlace	3D Comb Filter / Deinterlace	3D Comb Filter / Deinterlace	3D Comb Filter / Deinterlace	3D Comb Filter / Deinterlace	3D Comb Filter / Deinterlace
Outdoor Enclosure	Optional	Optional	Optional	Optional	Optional	Optional
Multi Language	English, Spanish, French, German, Italian					
RS-232C Control	Monitor OSD control using PC					
DIMENSION						
Outline Dimension	31.14" H x 19.06" W x 4.43" D	40.35" H x 27" W x 4.72" D"	40.35" H x 27" W x 4.72" D"	41.35" x 23.75" x 4.76"	41.23"W x 23.64"H x 3.12"D	46.9"W x 27.08"H x 5.2"D
Net. Weight	47.5lbs (21.54Kg)	69.9lbs (31.7Kg)	72.1lbs (32.7Kg)	71.0lbs (32.2Kg)	71.0lbs (32.2Kg)	105.8lbs (47.9Kg)
WARRANTY						
Part / Labor	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year	2year / 2year
MTBF (Approx.)	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
REGULATIONS						
Electronic	RoHS, TUV-NRTL (optional), CB, FCC (A), CE-Emc (LVD)					
POWER						
Electrical Ratings	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
Power consumption	< 150W	< 180W	< 230W	< 260W	< 260W	< 260W
CIRCUMSTANCE						
Operating Temperature	0 ~ 50°C / 32 ~ 122°F					
MOUNTS						
VESA™ Mount Size	200 x 200mm (BS M6 x 16mm)	200 x 200mm (BS M6 x 16mm)	200 x 200mm (BS M6 x 16mm)	600 x 400mm	600 x 400mm	600 x 400mm
Mount	WB-2642			WB-4663		
* Design and Specifications are subject to change without notice						

\* Design and Specifications are subject to change without notice

# HD CCTV OBSERVATION SOLUTION

World's 1st Digital observation solution that converts 16 traditional Analog Signals to a Digital Image.

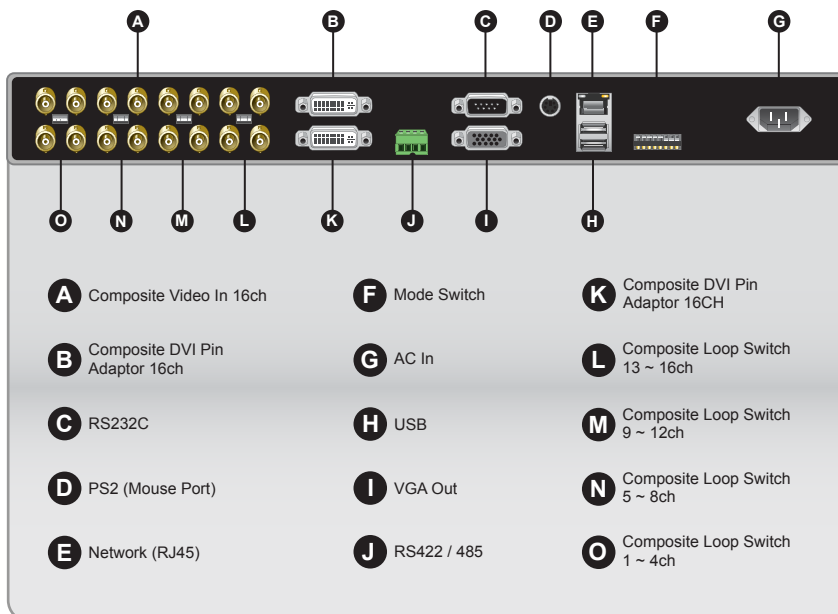
## Up to 16 Analog Cameras + RG59/U Coaxial Cable + 42DS16



### FEATURES & BENEFITS

- ▶ 42" LCD with integrated 16 channel splitter
- ▶ View up to 16 analog cameras as 1 digital image
- ▶ Can be used to enhance display image of existing cameras
- ▶ 60% gain in video quality per channel in 1920 x 1080p full HD mode
- ▶ Minimizes the number of system components required
- ▶ Deinterlacing & Scaling built-in
- ▶ Dip switch selectable looping per camera

### 42DS16 INTERFACE



SERIES	42DS16
<b>DISPLAY</b>	
Screen Size	42 Inch
Max. Resolution	1920 x 1080 @ 60Hz
Pixel Pitch	0.484 x 0.484mm
Brightness	500cd/m <sup>2</sup>
Contrast Ratio	1000 : 1
Aspect Ratio	16 : 9
Viewing Angle (H/V)	178°/ 178°
Display Color	16.7 Million
Response Time	< 8ms (Gray to Gray)
Video System	NTSC / PAL
<b>INTERFACE</b>	
Video Looping	16 BNC In
	16 BNC Out
	Dip switch selectable
VGA Output	1
Serial Interface	RS232 x 1 (For firmware upgrade)
	RS485 / RS422 x 1
USB Port	3 (For firmware upgrade)
Dip switch	NTSC/PAL
	Resolution change (1920x1080p / 1280x1024 / 1024x768)
	For upgrading the Firmware
	BNC In / loop Out (selectable)
PS2 port	Connect to PS-2 Mouse
<b>TRANSMITTER</b>	
Remote Control	Yes
<b>FEATURES</b>	
Screen Division format	1, 4, 9, 11A, 11B, 12, 13, 14, 16A, 16B
Video process	Deinterlacing & Scaling
System Restore	Watchdog (Auto Restart), Blackout : Auto Power On
Virtual key board on screen	Yes
<b>DIMENSION</b>	
Dimension (w/ stand) / Net. Weight	40.354"W x 26.192"H x 9.843"D / 77lbs
<b>CABINET</b>	
Finish / Tilt Stand	Black / Yes
<b>WARRANTY</b>	
Part & Labor / MTBF (Approx.)	2year / 2year, 50,000 Hours
<b>REGULATIONS</b>	
Electronic	RoHs, CB, FCC(A), CE-Emc(LVD)
<b>POWER</b>	
Consumption / Electrical Ratings	< 260W / AC100 ~ 240V(50/60Hz)
<b>CIRCUMSTANCE</b>	
Operating Temperature	0 ~ 50°C / 32 ~ 122°F
<b>MOUNTS</b>	
VESA™ Mount Size	400 x 200mm (BS M8 x 16mm)

\* Design and Specifications are subject to change without notice

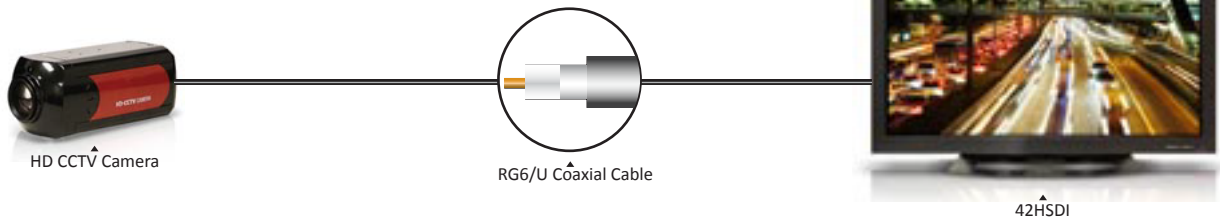


# HD-SDI MONITOR SOLUTIONS

HD observation system that delivers real time broadcast grade images

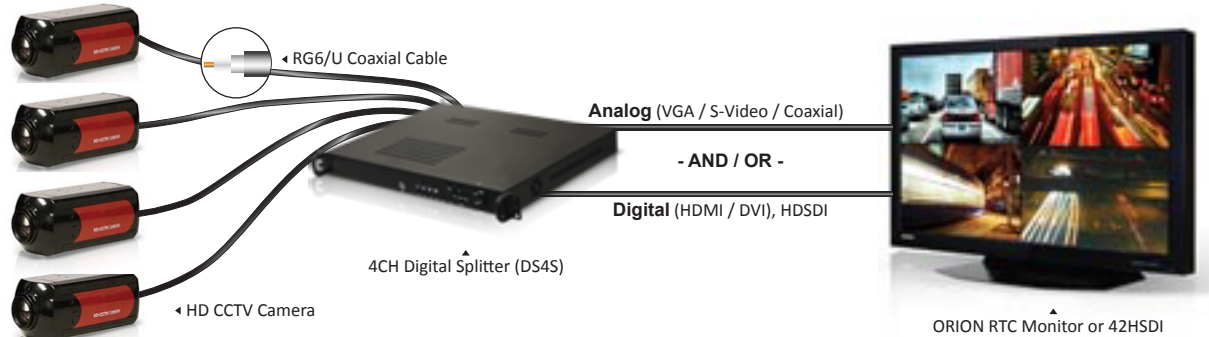
## SOLUTION 1 HD CCTV Camera + HD Monitor

1 HD CCTV Camera (SDI out) + RG6/U Coaxial (max 300ft) + 42HSDI (SDI in)



## SOLUTION 2 HD CCTV Camera + Digital Splitter + ORION RTC Series or 42HSDI

Up to 4 HD Camera's (SDI out) + 4ch Digital Splitter + RTC Series Monitor (Composite, HDMI, DVI Input) or HSDI



## FEATURES & BENEFITS

- HD observation system that delivers real time broadcast grade images (30fps)
- Use affordable RG-6 coaxial cable for longer distance runs with less signal loss
- Best quality CCTV image at cost effective price
- Full HD image displayed with minimum 2.2M pixel camera through HD-SDI input

## AVAILABLE ACCESSORY



### HD CCTV Camera

- Full HD (1920 x 1080 30p) Video
- High resolution video with Progressive Scan
- 3Gb/s, HD, SD-Serial Digital Interface Type Video Output
- Minimum illumination 1Lux-Auto Switching Mode at 12Lux



### 4CH Digital Splitter (DS4S)

- Auto System Recovery
- Digital video splitter only for High definition camera(HD-SDI/HDMI)
- Various video output mode (1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768)
- Support RS-232, RS-485



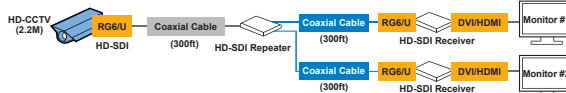
### HD Receiver

- HDMI device which is receiving HD-SDI video of 2.2M pixel camera
- This box type HD-SDI receiver can connect to monitor directly. (BNC In & DVI Out)



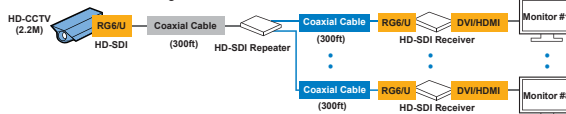
### HD Repeater / Distributer (2CH)

- Distance extension device for HD-SDI. In addition, there are two outputs from one input. Therefore, user can use two monitors with one HD-CCTV camera. When user uses repeater between HD-CCTV and Receiver, the distance can be increased 300ft per repeater.



### HD Repeater / Distributer (8CH)

- Distance extension device for HD-SDI. In addition, there eight outputs from one input therefore user can use eight monitors with one HD-CCTV camera

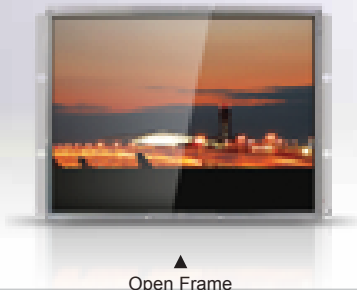


SERIES	42HSDI
<b>DISPLAY</b>	
Screen Size	42 Inch
Max. Resolution	1920 x 1080 @ 60Hz
Pixel Pitch	0.484 x 0.484mm
Brightness	500cd/m <sup>2</sup>
Contrast Ratio	1000 : 1
Aspect Ratio	16 : 9
Viewing Angle (H/V)	178° / 178°
Display Color	16.7 Million
Response Time	< 8ms (Gray to Gray)
Video System	NTSC / PAL
<b>INTERFACE</b>	
Video In/ Out (BNC Type)	2 / 2
S-Video In / Out	1 / 1
VGA In (15Pin D-Sub)	1
Component	1
HDMI In	1
Audio In (RCA)	3 (L+R)
<b>HD SDI In / Out (RG-6)</b>	<b>1 / 1</b>
PC Stereo In	1
<b>TRANSMITTER</b>	
Remote Control	Yes
<b>AUDIO</b>	
Built-in Speakers	Yes(4W X 2)
<b>FEATURES</b>	
Filter Type	3D Comb Filter / Deinterlace
Trigger Sensor	Yes (NO / NC)
Multi Display Function	PIP / PBP
<b>DIMENSION</b>	
Dimension (w/o stand) / Net. Weight	40.35W" x 25.3H" x 4.724D" / 75lbs
<b>WARRANTY</b>	
Part & Labor / MTBF (Approx.)	2year / 2year / 50,000 Hours
<b>REGULATIONS</b>	
Electronic	RoHS, TUV NRTL, CB, FCC(A), CE-Emc(LVD)
<b>POWER</b>	
Consumption / Electrical Ratings	< 230W / AC100 ~ 240V(50/60Hz)
<b>CIRCUMSTANCE</b>	
Operating Temperature	0 ~ 50°C / 32 ~ 122°F
<b>Mounts</b>	
VESA™ Mount Size	400 X 200 mm (BS M8 x 16 mm Screw)

\* Design and Specifications are subject to change without notice



◀ Touch Screen Monitor



▲ Open Frame

Special Order Monitor Categories

- Sunlight Readable / High Brightness
- Touch Screen
- LCD with LED BLU
- Open Frame
- Outdoor Enclosures

Minimum Order Quantity may apply.  
Please call your ORION Sales Representative for more details.

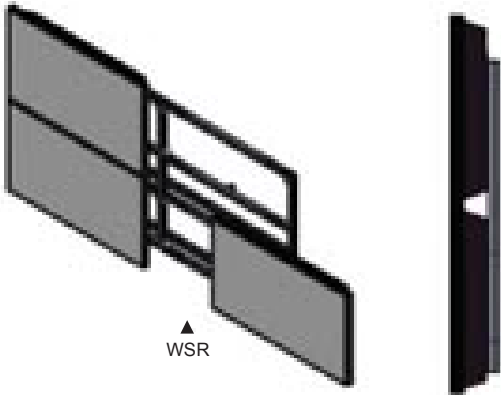
VIDEO WALL MOUNT

All mount solutions are CAD designed & specifically tailored to fit your customer's needs. Our team of specialists qualify in every video wall project to ensure we are providing the best possible mount solution that fits your budget and application.

WSR

Video Wall Slide Rail Mount Solutions

The Slide Rail mount solution is made of heavy duty aluminum and custom built based on monitor size - slide each monitor onto a row of rails one at a time. This is our most cost effective video wall solution.



▲ WSR



▲ WES

WES

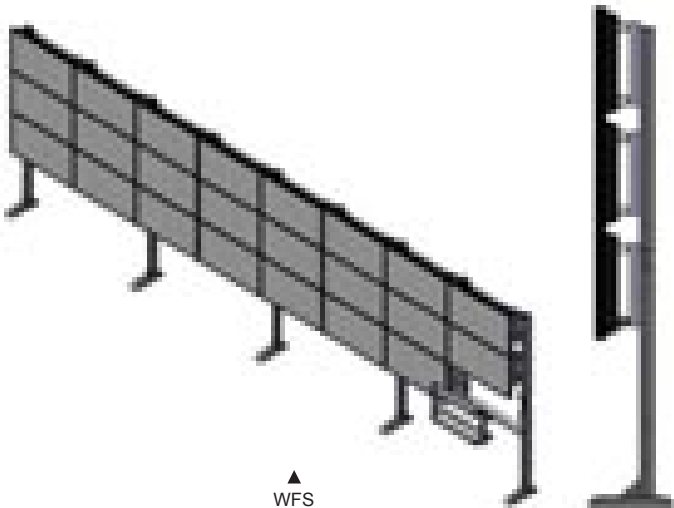
Video Wall Scissor Mount Solutions

Wall mount with extended scissor technology is made of powder coat heavy gauge steel. Gently push the bezel and it pops out to extend up to 24", using a glide surface scissor solution designed to support nearly any LCD display configuration. Includes X, Y and Z-Axis adjustments for edge to edge alignment.

WFS

Video Wall Free Standing Mount Solutions

Free Standing, floor supported monitor mount made of heavy-duty power coat steel. Build a curved or straight row - configurations vary. Options are fixed tilt, swing out door or extend up to 24" using a glide surface scissor solution for access to the rear, side, top or bottom of the displays.



▲ WFS

## WALL MOUNT



WB-5

### WB-5 | Flat Wall Mount

- ▣ Fits most 8" – 24" flat panel displays
- ▣ VESA™ 75x75mm, 100x100mm
- ▣ Max weight 33 lbs



WB-10

### WB-10 | 3 Directional Wall Mount

- ▣ Fits 8" – 24" flat panel displays
- ▣ Tilt Up / Down 180°
- ▣ Pivot 180°, Swivel L/R 90°
- ▣ VESA™ 75x75mm, 100x100mm
- ▣ Max weight 33 lbs



WB-30

### WB-30 | Swing Out Wall Mount

- ▣ Fits 8" – 24" flat panel displays
- ▣ 90° Swing L/R, +/-15° Tilt/Pivot, Pivot 360°
- ▣ Extends 3.5" to 17" from the wall
- ▣ VESA™ 75x75mm, 100x100mm
- ▣ Max weight 33 lbs



WB-31

### WB-31 | Swing Out Arm Wall Mount

- ▣ Fits 8" – 26" flat panel displays
- ▣ 180° Swing Left / Right
- ▣ +/-15° Tilt/Pivot, Pivot 360°
- ▣ Extends 3.5" to 17" from the wall
- ▣ VESA™ 75x75mm, 100x100mm, 200x100mm
- ▣ Max weight 50 lbs



WB-2642 / WB-4663 / WB-4780

### WB-2642 | Slim Tilt Wall Mount

- ▣ Fits 26" – 42" flat panel displays
- ▣ Depth from Wall 1.97" (50mm)
- ▣ 10° adjustable tilt
- ▣ Mounting patterns up to 525x400mm (WxH)
- ▣ Max weight 130 lbs

### WB-4663 | Slim Tilt Wall Mount

- ▣ Fits 46" – 63" flat panel displays
- ▣ Depth from Wall 1.97" (50mm)
- ▣ 10° adjustable tilt
- ▣ Mounting patterns up to 800x525mm (WxH)
- ▣ Max weight 175 lbs

### WB-4780 | Slim Tilt Wall Mount

- ▣ Fits 47" – 80" flat panel displays
- ▣ Depth from Wall 1.97" (50mm)
- ▣ 8° adjustable tilt
- ▣ Mounting patterns up to 1100x700mm
- ▣ Max weight 300 lbs



RMK-08

### RMK-08

#### Rack Flat Panel Mount Kit – Max weight 16lbs

This rack mount solution provides a built in tilt function adjustable viewing angle.

- ▣ Fits from single or dual 8" up to 20" LCD monitors
- ▣ Built in Tilt function
- ▣ 12° continuously adjustable tilt
- ▣ VESA™ 75x75mm and 100x100mm

## RACK MOUNT

## CEILING MOUNT

### CMK-01

#### Ceiling Flat Panel Mount Kit – Max weight 50lbs

This adjustable height LCD ceiling mount allows you to adjust pole height, plus tilt and pivot the monitor.

- ▣ Fits 15"- 32" flat panel displays
- ▣ Adjustable Pole Height 24" – 46"
- ▣ +/-15° tilt
- ▣ 360° rotation / swivel
- ▣ VESA™ mounting patterns 75x75mm, 100x100mm, 200x100mm
- ▣ Cable pass through
- ▣ Max weight 50 lbs

### CMH-01

#### Ceiling Flat Panel Mount Kit – Max weight 160lbs

This adjustable height LCD ceiling mount allows you to adjust pole height, plus tilt and pivot the monitor.

- ▣ Fits 32"- 61" + flat panel displays
- ▣ Adjustable Pole Height 24" – 46"
- ▣ 12° continuously adjustable tilt
- ▣ 360° rotation / swivel
- ▣ VESA™ mounting patterns 75x75mm, 100x100mm, 200x100mm, 200x200mm,
- ▣ 16", 18", 24" Mounting Slots
- ▣ Cable pass through
- ▣ Max weight 160 lbs



CMK-01

CMH-01





## PRODUCT CATALOG 2010

**ORION™**

**OIC** ORION IMAGES  
CORPORATION

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