

4K UHD



ORION PRODUCT GUIDE

2015

SECOND EDITION



SPECIALIZING IN MONITOR
& VIDEO PROCESSING

GSA

Contract No. GS-03F-0152X

ABOUT ORION IMAGES CORP.

ORION Images Corp. (OIC) leads the industry in the design and development of commercial grade LCD monitors certified for use in demanding 24/7/365 applications. Built in our ISO 9001 certified factory, OIC monitors are designed to meet the diverse needs of CCTV, Pro A/V, Broadcast and Commercial users. Our manufacturing facility & headquarters is located in Korea and our global sales, marketing, warehouse technical support / repair is in Westminster, California. As an Original Equipment Manufacturer (OEM) we have the experience and buying power to provide state of the art monitors at competitive prices.

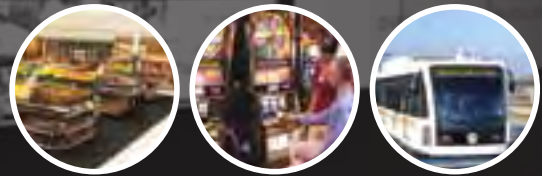
WHY DO BUSINESS WITH US

ORION Images monitors are built to run 24/7/365 continuously with FCC Class A commercial grade certification and backed by a 3 year standard warranty. 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.



MARKET SEGMENTS

Retail - Financial - Transportation - Command & Control - Recreation - Entertainment - Military - Federal & Municipal - Government - Energy & Utilities - Gaming - Retail - Public Venue - Leisure - Broadcasting - Lodging - Law Enforcement - Video Conferencing - Public Safety - Health Care - House of Worship - Education - Live Events and much more. Remove the 3 circular pictures.



OEM & CUSTOM BUILD SOLUTIONS

Looking for a unique monitor solution or private labeled product? OIC has the engineering support and manufacturing capabilities to bring your idea to life. With over 13 years of design and manufacturing experience, OIC has the expertise to build custom product for any application. Contact us to know more.



RNK SERIES

VIDEO WALL SOLUTIONS



FULL HD AV VIDEO WALL

ORION Images is leading the market as being an expert in control room solutions for broadcasting, telecommunications, public utilities, process control, traffic control, surveillance and command & control applications. Our LCD video wall solutions are ideal for Emergency Operations Centers, traffic and surveillance centers, and utilities and process control rooms. The RNK series is the perfect solution for displaying 1 image across multiple monitors using 1 video source up to a 20 x 20 configuration. In addition, this solution can also be used for corporate AV and Digital Signage applications such as shopping malls, airports, stadiums, lobby signage, boardrooms, and more. Whether small lobby display or extra large video walls, the tiled RNK series makes statement. Public Display Signage receives 10 times the eye contact of static signage and is creating cost-effective opportunities to improve customer service, safety, way finding, branding, training, and communications. ORION Images is now offering optional **4K input capability on our RNK series.**

Unlike plasma technology, LCD video walls require less power consumption and with auto pixel shift built in they are not subject to permanent, irreversible burn-in. ORION Images provides various mount solutions including wall mount scissor & door styles as well as free standing options. We will help you determine the right display for your application.

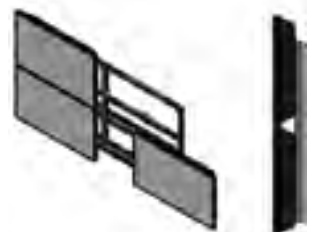
VIDEO WALL MOUNT SOLUTIONS / Customize Video Wall Mount

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.



WSD | Swing Door 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 | Slide Rail mount

- Video Wall Mount Fixed Position type
- Interlocking, grid included, no rear access to the monitor unless you cut away the dry wall and leave the studs
- Made of reinforced steel tubing
- Weight and max load vary by monitor size



WFS | 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.



WES | 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.

PROFESSIONAL VIDEO WALL MONITORS

*Video Wall for Security, Control Rooms,
Commercial AV, Professional AV &
has immediate benefits*

SERIES	RNK42NNF	RNK46NHF	RNK46SNF	RNK46SHF	RNK46UHF	RNK55NHF	RNK55SNF	RNK55SHF	RNK55UNF
DISPLAY	LED	LED	LED	LED	LED	LED	LED	LED	LED
Screen Size	42.02 Inch	46 Inch	46 Inch	46 Inch	46 Inch	54.6 Inch	54.6 Inch	54.6 Inch	55 Inch
Bezel Width	13.4mm	15.5mm	3.8mm / 1.9mm	3.8mm / 1.9mm	2.2mm / 1.3mm	15.5mm	3.8mm / 1.9mm	3.8mm / 1.9mm	2.2mm / 1.3mm
Native Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Pixel Pitch	0.4845 x 0.4845mm	0.53025 x 0.53025mm	0.530 x 0.530mm	0.530 x 0.530mm	0.530 x 0.530mm	0.630 x 0.630mm	0.630 x 0.630mm	0.630 x 0.630mm	0.630 x 0.630mm
Brightness	450cd/m ²	700cd/m ²	500cd/m ²	700cd/m ²	700cd/m ²	700cd/m ²	500cd/m ²	700cd/m ²	500cd/m ²
Contrast Ratio	1300 : 1	4000 : 1	3500 : 1	3500 : 1	3500 : 1	4000 : 1	3500 : 1	3500 : 1	3500 : 1
Aspect Ratio	16 : 9	16 : 9	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° / 178°	178° / 178°	178° / 178°	178° / 178°	178° / 178°
Response Time	< 12ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE									
Video In / Out (BNC)	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
HDMI In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
VGA In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
DVI In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
RS-232 In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio In (RCA)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)
PC Stereo In	1	1	1	1	1	1	1	1	1
Speaker Out	1	1	1	1	1	1	1	1	1
TRANSMITTER									
IR Remote Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Magnetic Key	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO									
Built-In Speakers	10W x 2	10W x 2	10W x 2	10W x 2	10W x 2	10W x 2	10W x 2	10W x 2	10W x 2
FEATURES									
Multi Display Function	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP
Auto Pixel Shift	Yes	Yes	Yes	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	3D Comb Filter	3D Comb Filter	3D Comb Filter
De-Interlace	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Trigger Source Switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Source Sequencing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Auto Power Recovery	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fan On / Off Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Edge Setting (H / V)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
One mage up to 20 x 20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi Language	English, Spanish, Italian, French, German								
RS-232C Control	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD
CABINET									
Color	Black	Black	Black	Black	Black	Black	Black	Black	Black
Material	Electro-Galvanized Steel								
OUTLINE DIMENSION									
Dimension (inch) WHD	37.83 x 21.80 x 3.70	41.33 x 23.74 x 3.82	40.31 x 22.78 x 5.74	40.31 x 22.78 x 5.04	40.24 x 22.70 x 5.04	49.0 x 28.17 x 3.94	47.85 x 27.02 x 5.77	47.85 x 27.02 x 5.08	47.78 x 26.94 x 5.08
Net. Weight	24.5kg (54.01 lbs)	31.4kg (69.23 lbs)	30.0kg (66.14 lbs)	29.9kg (66.0 lbs)	29.9kg (66.0 lbs)	40kg (87.9 lbs)	40kg (87.9 lbs)	37.8kg (83.33 lbs)	36.74kg (81 lbs)
ENVIRONMENT									
Electrical Ratings	AC100 - 240V (50/60Hz)								
Power Consumption	< 128W	< 260W	< 138W	< 210W	< 210W	< 300W	< 240W	< 242W	< 242W
Operating Temperature	0° - 40° C / 32° - 104° F								
MOUNTS									
VESA™ Mount Size	600 x 300mm	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm
Video Wall	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD
Stand Alone	WB-4663	WB-4663	WB-4663	WB-4663	WB-4663	WB-4663	WB-4663	WB-4663	WB-4663

* Design and Specifications are subject to change without notice

RNK 4K VIDEO WALL

ULTRA NARROW BEZEL

The RNK 4K series of LCD displays is the perfect solution for ultra high definition video walls. With a total of 3840 x 2160 pixels (based on 2x2 configuration) and the ability to take a single video source and display it across the entire video wall it is an excellent choice for command & control centers, corporate AV and digital signage applications. Video walls up to 20x20 are achievable.



RNK4K 4K UHD

RNK55UHF	RNK70NNF	RNK82NNF
LED	LED	LED
54.6 Inch	70 Inch	81.6 Inch
2.2mm / 1.3mm	23.2mm	28.5mm / 32mm
1920 x 1080	1920 x 1080	1920 x 1080
0.630 x 0.630mm	0.807 x 0.807mm	0.9405 x 0.9405mm
700cd/m ²	400cd/m ²	450cd/m ²
3500 : 1	4000 : 1	5000 : 1
16 : 9	16 : 9	16 : 9
178° / 178°	178° / 178°	178° / 178°
< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)
NTSC / PAL	NTSC / PAL	NTSC / PAL
2 / 2	2 / 2	2 / 2
1 / 1	1 / 1	1 / 1
1 / 1	1 / 1	1 / 1
1 / 1	1 / 1	1 / 1
1 / 1	1 / 1	1 / 1
2 (L+R)	2 (L+R)	2 (L+R)
1	1	1
1	1	1
Yes	Yes	Yes
Yes	Yes	Yes
10W x 2	10W x 2	10W x 2
PIP / PBP	PIP / PBP	PIP / PBP
Yes	Yes	Yes
3D Comb Filter	3D Comb Filter	3D Comb Filter
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Monitor OSD	Monitor OSD	Monitor OSD
Black	Black	Black
47.48 x 26.94 x 5.08	63.09 x 36.39 x 4.21	73.17 x 42.69 x 4.72
36.7kg (81.0 lbs)	65.5kg (144.4 lbs)	119.0kg (262.35 lbs)
< 242W	< 320W	< 440W
600 x 400mm	800 x 600mm	800 x 600mm
WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD
WB-4663	WB-4780	TBD

SERIES	RNK46UHF4K	RNK55UNF4K	RNK55UHF4K	RNK55NNU4K
DISPLAY	LED	LED	LED	LED
Screen Size	46 Inch	55 Inch	55 Inch	55 Inch
Bezel Width	2.2mm / 1.3mm	2.2mm / 1.3mm	2.2mm / 1.3mm	19.6mm
Native Resolution	1920 x 1080 pixels	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	3840 x 2160 @ 60Hz
Pixel Pitch	0.530 x 0.530mm	0.630 x 0.630mm	0.630 x 0.630mm	0.315 x 0.315mm
Brightness (Indoor)	700cd/m ²	500cd/m ²	700cd/m ²	450cd/m ²
Contrast Ratio	3500 : 1	3500 : 1	3500 : 1	4000 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	178° / 178°	178° / 178°	178° / 178°	178° / 178°
Response Time	< 8ms (G to G)	< 8ms (G to G)	< 8ms (G to G)	< 6.5ms (G to G)
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE				
Display Port In (ver 1.2)	1	1	1	1
HDMI In (ver 1.4)	1	1	1	1
VGA In (15Pin D-Sub)	1	1	1	1
DVI In	1	1	1	1
RS-232 In / Out	1 / 1	1 / 1	1 / 1	1 / 1
PC Stereo In	1	1	1	1
Speaker Out	1	1	1	1
TRANSMITTER				
IR Remote Control	Yes	Yes	Yes	Yes
Magnetic Key Button Control	Yes	Yes	Yes	Yes
AUDIO				
Built-in Speakers	10W x 2	10W x 2	10W x 2	5W x 2
FEATURES				
Multi Display Function	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP
Noise Reduction	Yes	Yes	Yes	Yes
Image Rotation	Yes (LandScape & Portrait)	Yes (LandScape & Portrait)	Yes (LandScape & Portrait)	Yes (LandScape & Portrait)
Menu Rotation	Yes (LandScape & Portrait)	Yes (LandScape & Portrait)	Yes (LandScape & Portrait)	Yes (LandScape & Portrait)
Aspect Ratio	Yes (Auto, Fill, 4:3, 5:4, 1:1)	Yes (Auto, Fill, 4:3, 5:4, 1:1)	Yes (Auto, Fill, 4:3, 5:4, 1:1)	Yes (Auto, Fill, 4:3, 5:4, 1:1)
Dynamic Contrast	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)
Gamma Selection	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)
Advanced Auto Power Recovery	Yes	Yes	Yes	Yes
Auto Source Sequencing	Yes	Yes	Yes	Yes
Edge Setting (H / V)	Yes	Yes	Yes	Yes
One mage up to 20 x 20	Yes	Yes	Yes	Yes
Temperature Sensor	Yes	Yes	Yes	Yes
Multi Language	English, Spanish, Italian, French, German			
RS-232C Control	Monitor OSD	Monitor OSD	Monitor OSD	Monitor OSD
CABINET				
Color	Black	Black	Black	Black
Material	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel
OUTLINE DIMENSION				
Dimension (inch)	40.24 x 22.70 x 5.04	47.78 x 26.94 x 5.08	47.78 x 26.94 x 5.08	TBD
Net. Weight	29.9kg (66.0 lbs)	36.7kg (81.0 lbs)	36.7kg (81.0 lbs)	TBD
ENVIRONMENT				
Electrical Ratings	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)
Power Consumption	< 210W	< 242W	< 242W	TBD
Operating Temperature	0° - 40° C / 32° - 104° F			
MOUNTS				
VESA™ Mount Size	600 x 400mm	600 x 400mm	600 x 400mm	600 x 400mm
Video Wall	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD	WFS, WES, WSD
Stand Alone	WB-4663	WB-4663	WB-4663	WB-4663

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MULTI VIEWER SYSTEM

8 & 16 INPUTS W/ OIC COMMANDER SOFTWARE

ORION Images first high definition multi-window monitoring system featuring 8/16 universal inputs/windows, with user selectable resolutions up to 2048 x 1080 (including 1920 x 1080p) and infinitely adjustable the screen layouts. This 1 RU/2RU, rackmountable video scaler/processor allows for maximum flexibility in screen layout.



OIC-M802 & OIC-M1604

SPECIAL FEATURES

OIC-M802/1604

- ▶ Universal Inputs and auto-detect (Standard – DVI and RGB, Option – HDMI, YPbPr and SD / HD / 3G-SDI)
- ▶ Output resolution up to 2048 x 1080 including 1920 x 1080p through DVI or HDMI (Option – YPbPr, VGA or SD / HD / 3G-SDI)
- ▶ OIC Commander application allows on-screen graphical elements to be designed with any graphics tool
- ▶ Front panel headphone jack with volume adjustment for audio monitoring
- ▶ Optional 2 HD-SDI inputs module is available
- ▶ Optional HDMI and SD / HD / 3G-SDI models with embedded audio
- ▶ Built-in CATx extender
- ▶ Redundant power supply included as standard

SERIES	OIC-M802	OIC-M1604
Video Inputs (DVI / VGA)	Up to 8 (Option: HDMI or YPbPr) Optional SDI Model-SMPTE 259M, 292M, 424M	Up to 16 (Option: HDMI or YPbPr)
Input Connectors	DVI-I x 8 (Standard VGA to DVI-I)	DVI-I x 16 (Standard VGA to DVI-I)
Video Outputs (DVI-I / HDMI)	Up to 2 (Option: YPbPr, RGB or SDI)	Up to 4 (Option: YPbPr, RGB or SDI)
Output Connectors	RJ45 x 2 (RJ45 to DVI-I Adaptor)	RJ45 x 4 (RJ45 to DVI-I Adaptor)
Built-in CATx Extender	Up to 35 feet (Option – up to 115 feet)	
Output Resolution	800 x 480 to 2048 x 1080 (1080P)	
Total Screens	Up to 8	Up to 16
On Screen Display	Borders, Labels, Fonts, Tally LEDs, Clock, Logos, Under Monitor Display (UMD), Over Monitor Display (OMD), In Monitor Display (IMD)	
General Purpose IO	24 inputs with DB9 connectors	40 inputs with DB9 connectors
Serial Port	RS232 with RS422 or 485 option. Connector RJ45 Baud Rate up to 115200, Format TSL, TSI, AXP	
Alarm	No audio, audio high / low, no video, video black, video frozen	
IP	100-Base-TX, TSL, AXP, Connector RJ45	
Control	Front panel buttons for quick preset recalls, GPIs, ASCII Protocol (AXP), OIC Commander	
Power Requirement	AC 90 to 250V 50/60Hz	
Power Consumption	Approx. 110W	Approx. 220W
AES Audio (opt)	8 channels (balanced / unbalanced)	16 channels (balanced / unbalanced)
Analog Stereo Audio (opt)	16 channels (balanced / unbalanced)	32 channels (balanced / unbalanced)
Embedded Audio	SMPTE 272M-A, HDMI	
Power	Redundant power supply is provided	
Dimensions (W H D)	17.5" x 1.75" x 19.7"	17.5" x 3.5" x 23.6"

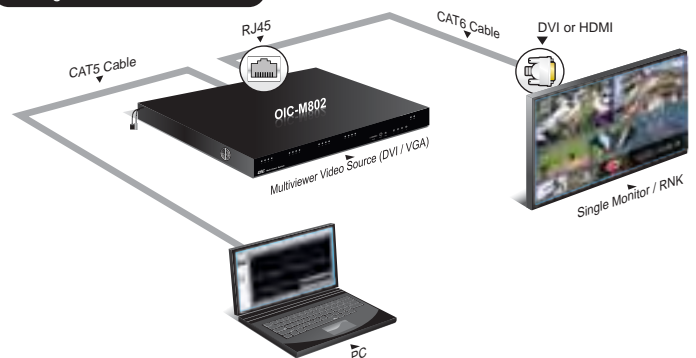
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APPLICATION

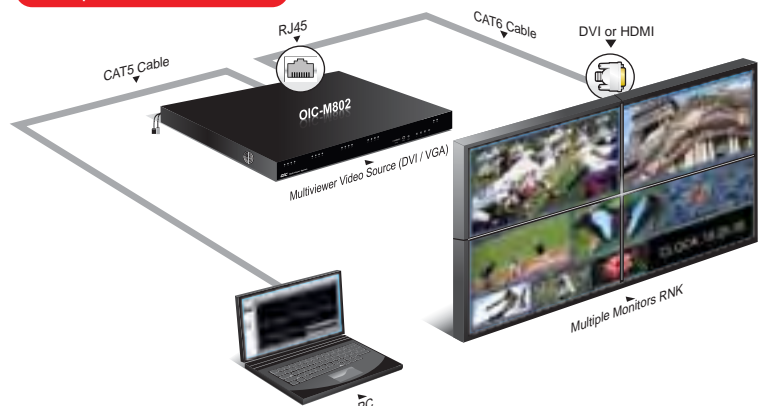
MULTIVIEWER

ORION Images OIC-M802/OIC-M1604 Multiviewer provides the user friendly application tool (OIC Commander) to set up your screen layout need.

Single Monitor RNK Series



Multiple Monitors RNK Series



MULTI VIEWER SYSTEM

4, 8, 16 CH W/ VIDEO WALL CONTROL SOFTWARE

The OIC-MP Series is the latest addition to our wall controller systems. The OIC-MP Series is the perfect solution for when multiple sources must be shared in a collaborative environment for video capture for streaming, recording or presentation applications.



OIC-MP SERIES

SPECIAL FEATURES

OIC-MP SERIES

VIDEO WALL CONTROLLER

- ▶ Core i7 Processor, Windows 7 Professional with 64 bit System
- ▶ Rack Mount 4U Case with Front Lock
- ▶ Expandable HD Inputs and Outputs, Multiple Video Wall Configurations

VIDEO WALL CONTROLLER SOFTWARE

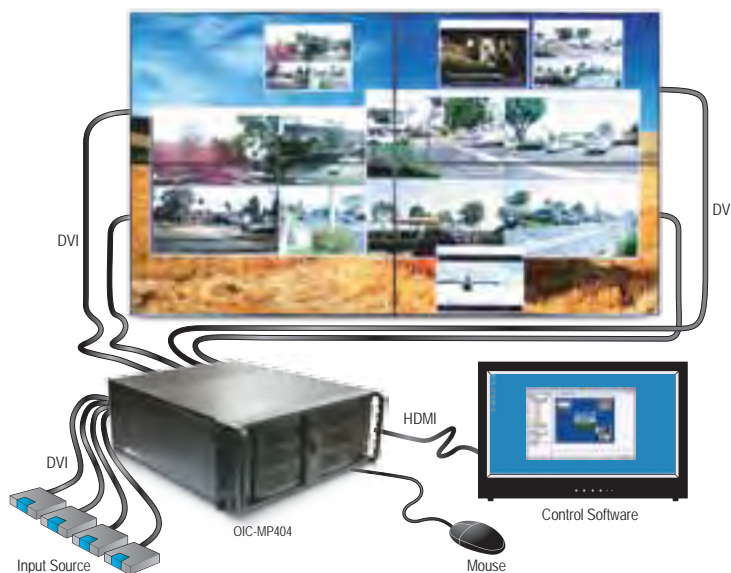
- ▶ Outputs Maximum 2560 x 1600 at 60Hz Resolution
- ▶ Display Multiple Input Sources with Video Clip and Photos in Windows 7
- ▶ Interactive Desktop Control and Configuration
- ▶ Audio Playback for HDMI Source
- ▶ Size and Position any Window
- ▶ Stream a Source Over the Network
- ▶ 4K Model Available Upon Request (OIC-MP804-4K)

SERIES	OIC-MP404, 804, 808	OIC-MP812, 1212, 1612, 1616
Server Chassis	4U Black Chassis	
Redundant Power Supply	No	Yes
Operating System	Window 7 Professional	
Processor	Intel Core i7	
System Bus	1333 MHz	
CD / DVD	18x DVD-RW ROM Drive	
Network Card	Integrated Intel PRO 10 / 100 / 1000	2 Gigabit Ethernet Ports
Video Card	Onboard Video (VGA Output)	
Motherboard Chipset	Intel Chipset	
PCI Slots	6 PCIe Slots	9 PCIe Slots
System RAM	8 GB DDR3	16 GB DDR3
Storage	120 GB SSD	
Input Card	4 Channel HD Capture Card (Up to 2)	4 Channel HD Capture Card (Up to 4)
Input Card Source	DVI	
DMA Bandwidth MB/s	800 MB/s per capture processor, 3.2 GB/s total (Per Card)	
Frame Buffer MB	4 x 256	
Audio Supported	Audio supported only for HDMI Input	
Output Card	4 Channel Output Card (Up to 2)	4 Channel Output Card (Up to 4)
Output Type	4 x Display Port 1.1a video ports providing up to 359M pixels/s at 24bit (eg 2560 x 1600 @ 60Hz)	
Power	115V, 12A Input	
Cooling	1 Processor Fan, 2 x 120mm Fans	2 x 120mm Fans
Case Dimensions (W H D)	19.0" x 7.0" x 21.0"	19.0" x 7.0" x 19.65"
Accessories	Optical Mouse, DP to DVI adapters and Keyboard	
Weight	45 lbs	55 lbs

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BASIC CONNECTION

OIC-MP404

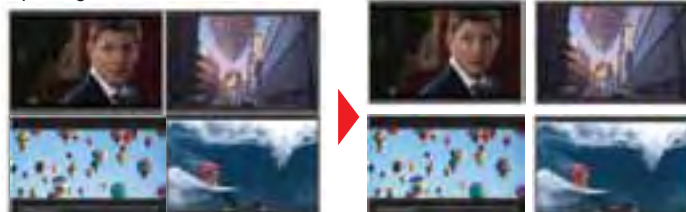


SOFTWARE

MULTIVIEWER

Video wall controller displays the desktop of the unit that is being controlled. It allows you to remotely display Vision, IP Camera and application Windows across a network on another unit or locally on the same unit.

▶ Splitting in to sub-windows



One Window has Quad Display

Split in to Four Windows

SPECIAL FEATURES

- ⌚ Anti-Reflection Front Coating
- ⌚ Full 60fps Frame Rate (Display port)
- ⌚ Multi-Input Interface: Display Port, HDMI, DVI-D, SDI, VGA
- ⌚ Image Rotation: Landscape and Portrait
- ⌚ Menu Rotation: Landscape and Portrait
- ⌚ Aspect Ratio: Full / 4:3 / 5:4 / 1:1
- ⌚ Dynamic Contrast: ON / OFF
- ⌚ Gamma Selection: 1.8 / 2.0 / 2.2 / 2.4 and 2.6
- ⌚ Color and Monochrome Selection
- ⌚ Super Resolution: ON / OFF
- ⌚ Wide Viewing Angle
- ⌚ Industrial Grade Metal Cabinet



4K ULTRA HI-DEFINITION

SERIES	4K24DHD	4K27DHD	4K28DHD	4K31DHD	4K40DHD	4K55DHD
DISPLAY	LED	LED	LED	LED	LED	LED
Screen Size	23.8 Inch	26.93 Inch	27.89 Inch	31 Inch	39.5 Inch	55 Inch
Native Resolution	3840 x 2160 pixels	3840 x 2160 pixels	3840 x 2160 pixels	4096 x 2160 pixels	3840 x 2160 pixels	3840 x 2160 pixels
Pixel Pitch	0.13725 x 0.13725 mm	0.15525 x 0.15525 mm	0.16 x 0.16 mm	0.1701 x 0.1701 mm	0.2247 x 0.2247 mm	0.315 x 0.315 mm
Brightness	350cd/m ²	300cd/m ²	300cd/m ²	400cd/m ²	350cd/m ²	450cd/m ²
Display Color	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion	1.07 Billion
Contrast Ratio	1000 : 1	1000 : 1	1000 : 1	1000 : 1	5000 : 1	5000 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9	17 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	170° / 160°	178° / 178°	176° / 176°	178° / 178°	176° / 176°	178° / 178°
Response Time	< 14ms	< 12ms	< 5.0ms	< 14ms	< 8.5ms	< 6.5ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE						
Display Port In (ver. 1.2)	1	1	1	1	1	1
HDMI In (ver. 1.4)	1	1	1	1	1	1
DVI-D In (Dual)	1	1	1	1	1	1
3G-SDI In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Audio In	1 (for VGA & DVI)	1 (for VGA & DVI)	1 (for VGA & DVI)	1 (for VGA & DVI)	1 (for VGA & DVI)	1 (for VGA & DVI)
Audio Out	1	1	1	1	1	1
VGA In (15Pin D-Sub)	1	1	1	1	1	1
SPEAKER						
Built In Speaker	Yes	Yes	Yes	Yes	Yes	Yes
TRANSMITTER						
IR Remote Control	Yes	Yes	Yes	Yes	Yes	Yes
FEATURES						
Multi Display Function	Yes	Yes	Yes	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes
Image Rotation	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)
Menu Rotation	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)	Yes (Landscape & Portrait)
Aspect Ratio	Yes (Full, 4:3, 5:4, 1:1)	Yes (Full, 4:3, 5:4, 1:1)	Yes (Full, 4:3, 5:4, 1:1)	Yes (Full, 4:3, 5:4, 1:1)	Yes (Full, 4:3, 5:4, 1:1)	Yes (Full, 4:3, 5:4, 1:1)
Dynamic Contrast	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)
Gamma Selection	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)	Yes (1.8, 2.0, 2.2, 2.4 and 2.6)
Color & Monochrome Selection	Yes	Yes	Yes	Yes	Yes	Yes
Super Resolution	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)	Yes (On / Off)
CABINET						
Color	Black	Black	Black	Black	Black	Black
Base Stand	Desktop	Desktop	Desktop (Height Adjustable)	Desktop	Desktop	Desktop
Material	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel
ENVIRONMENT						
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)
Operating Temperature	0° ~ 40° C / 32° ~ 104° F	0° ~ 40° C / 32° ~ 104° F	0° ~ 40° C / 32° ~ 104° F	0° ~ 40° C / 32° ~ 104° F	0° ~ 40° C / 32° ~ 104° F	0° ~ 40° C / 32° ~ 104° F

* Design and Specifications are subject to change without notice

COST EFFECTIVE SERIES

The ORION Images Wide LCD w/ LED BLU (backlight unit) high brightness displays are a truly professional experience in next generation technology using eco-friendly material (no mercury or halogen). This unit applies standby mode (less than 1W) to save energy.

LED



RCE SERIES

SERIES	15RCE	17RCE	19RCE	22RCE	24RCE	32RCE	42RCE
DISPLAY	LED		LED		LED	LED	LED
Screen Size	15 Inch	17 Inch	19 Inch	21.5 Inch	23.6 Inch	32 Inch	42 Inch
Pixel Pitch	1024 x 768 @ 60Hz	1280 x 1024 @ 60Hz	1280 x 1024 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz
Native Resolution	0.297 x 0.297mm	0.264 x 0.264mm	0.294 x 0.294mm	0.2482 x 0.2482mm	0.2715 x 0.2715mm	0.51075 x 0.51075mm	0.4845 x 0.4845mm
Brightness	400cd/m ²	350cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²	400cd/m ²	400cd/m ²
Contrast Ratio	800 : 1	500 : 1	1000 : 1	1000 : 1	1000 : 1	4000 : 1	1600 : 1
Aspect Ratio	4 : 3	5 : 4	5 : 4	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	160° / 145°	160° / 140°	160° / 160°	170° / 160°	170° / 160°	178° / 178°	178° / 178°
Response Time	< 35ms	< 6ms	< 5ms	< 5ms	< 5ms	< 20ms	< 8ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE							
BNC Video In / Out	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	5 / 2	5 / 2
VGA In (15Pin D-Sub)	1	1	1	1	1	1	1
DVI-D In / HDMI In	0 / 1	0 / 1	0 / 1	0 / 1	0 / 1	1 / 1	1 / 1
RS232 In / Out	0	0	0	0	0	1 / 1	1 / 1
Audio In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	2 / 0	2 / 0
Component In	0	0	0	0	0	1	1
TRANSMITTER							
Remote Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO							
Built-in Speakers	2W x 2	2W x 2	2W x 2	2W x 2	2W x 2	5W x 2	5W x 2
FEATURES							
Filter Type	2D Comb Filter	2D Comb Filter	2D Comb Filter	2D Comb Filter	2D Comb Filter	3D Comb Filter	3D Comb Filter
Multi Language	English						
OUTLINE DIMENSION							
Dimension (Inch)	12.58 x 10.81 x 1.71	15.04 x 12.40 x 1.71	16.81 x 13.82 x 1.77	20.39 x 12.52 x 1.91	22.16 x 13.46 x 2.03	30.46 x 18.50 x 4.69	39.24 x 23.46 x 4.69
Net. Weight	2.64kg (5.83 lbs)	3.34kg (7.37 lbs)	3.54kg (7.81 lbs)	2.99kg (6.6 lbs)	3.17kg (7.7 lbs)	16.75kg (36.9 lbs)	24kg (52.9 lbs)
CABINET							
Material / Color	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black	ABS Plastic / Black	Metal / Black	Metal / Black
Desk Top Stand	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tilt Function	Yes	Yes	Yes	Yes	Yes	No	No
ENVIRONMENT							
Consumption: < On	< 25W	< 35W	< 35W	< 30W	< 30W	< 115W	< 150W
Standby Mode	< 1W	< 1W	< 1W	< 1W	< 1W	< 5W	< 5W
Electrical Ratings	AC100-240V(50/60Hz)						
	DC12V / 3A	DC12V / 4A	DC12V / 4A	DC12V / 3A	DC12V / 3A	N/A	N/A
Operating Temperature	0° - 40° C / 32° - 104° F						
MOUNTS							
VESA® Mount Size	75 x 75mm	75 x 75mm	75 x 75mm	75 x 75mm	75 x 75mm	330 x 240, 430 x 240	596 x 240, 696 x 240
Wall	WB-5, WB-10, WB-30, WB-31					WB-2642	WB-2642
Ceiling	CMK-01	CMK-01	CMK-01	CMK-01	CMK-01	CMH-01	CMH-01
Rack	RMK-08	RMK-08	RMK-08	N/A	N/A	N/A	N/A

* Design and Specifications are subject to change without notice.

RCE FEATURES

The Wide screen 22RCE & 24 RCE Scan Size can be selected as AUTO / 16 : 9 / 4 : 3 / Panorama / Zoom



16 : 9 Aspect Ratio



4 : 3 Aspect Ratio



Zoom

ECONOMY • BASIC SERIES

The ORION Images LCD w/ LED BLU (backlight unit) high brightness displays are a truly professional experience in next generation technology using eco-friendly material (no mercury or halogen).



RHB • REDE

SERIES	228RHB	248RHB	18REDE	21REDE	23REDE	
DISPLAY	LED		LED		LED	
Screen Size	21.5 Inch	23.8 Inch	18.5 Inch	21.5 Inch	23 Inch	
Backlight	LED BLU	LED BLU	LED BLU	LED BLU	LED BLU	
Native Resolution	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	
Pixel Pitch	0.248 x 0.248mm	0.2745 x 0.2745mm	0.3 x 0.3mm	0.248 x 0.248mm	0.265 x 0.265mm	
Brightness	300cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	
Contrast Ratio	5000000 : 1 (DCR)	5000000 : 1 (DCR)	1000 : 1	1000 : 1	1000 : 1	
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	
Viewing Angle (H/V)	90° / 65°	170° / 170°	170° / 160°	170° / 160°	170° / 160°	
Display Color	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million	
Response Time	< 3ms	< 3ms	< 5ms	< 5ms	< 5ms	
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	
INTERFACE						
Video In / Out (BNC)	0 / 0	0 / 0	2 / 2	2 / 2	2 / 2	
S-Video In / Out	0 / 0	0 / 0	1 / 0	1 / 0	1 / 0	
VGA In (15Pin D-Sub)	1	1	1	1	1	
DVI-D In / HDMI In	0 / 1	0 / 1	0 / 1	0 / 1	0 / 1	
Audio In (RCA Type)	0	0	1	1	1	
PC Stereo In	0	0	1	1	1	
TRANSMITTER						
Remote Control	Yes	Yes	N/A	N/A	N/A	
AUDIO						
Built-in Speakers	N/A	N/A	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	
FEATURES						
Filter Type	N/A	N/A	3D Adaptive Deinterlace	3D Adaptive Deinterlace	3D Adaptive Deinterlace	
Deinterlacing	N/A	N/A	Yes	Yes	Yes	
Auto Source Sequencing	N/A	N/A	Yes	Yes	Yes	
Noise Reduction	N/A	N/A	Yes	Yes	Yes	
Multi Language	English		English, French, German, Spanish, Italian			
OUTLINE DIMENSION (W H D)						
Dimension (inch)	20.06 x 14.59 x 9.84	22.63 x 13.66 x 11.0	18.35 x 13.82 x 5.91	20.90 x 15.34 x 7.88	21.63 x 16.50 x 7.88	
Net. Weight	3.25kg (7.16 lbs)	3.7kg (8.15 lbs)	3.42kg (7.56 lbs)	TBD	TBD	
CABINET						
Material / Color	ABS Plastic / Black		ABS Plastic / Black			
Desk Top Stand	Yes		Yes			
Tilt Function	Yes		Yes			
ENVIRONMENT						
Consumption: < On	< 25W	< 25W	< 30W	< 32W	< 35W	
Electrical Ratings	AC100 - 240V(50/60Hz)		AC100 - 240V(50/60Hz)			
Power Consumption	DC12V / 1.3A		DC12V			
Operating Temperature	0° - 50° C / 32° - 122° F		0° - 40° C / 32° - 104° F			
MOUNTS						
VESA™ Mount Size	100 x 100mm	100 x 100mm	75 x 75mm	75 x 75mm	75 x 75mm	
Wall	WB-5, WB-10, WB-30, WB-31		WB-5, WB-10, WB-30, WB-31			
Ceiling	CMK-01		CMK-01			

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ECONOMY • VALUE SERIES

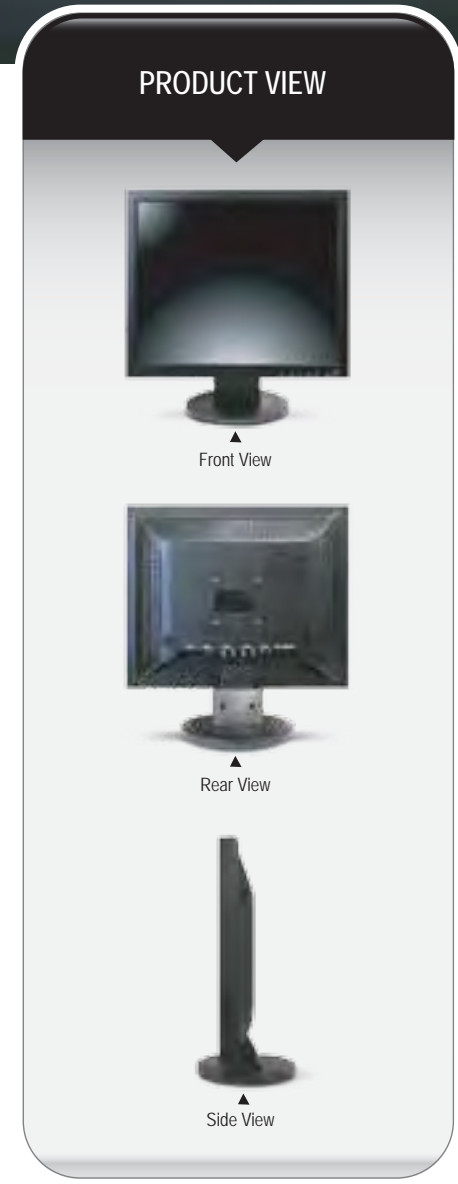
The Value series 17RTV, 19RTV series are a step up from the RCM series with added features like 3D Adaptive Deinterlace, Noise Reduction, Auto Source Sequencing and optional LCD Protection Glass to avoid any damages of panel.



RCM • RTV

SERIES	17RCM	19RCM	17RTV	19RTV
DISPLAY				
Screen Size	17 Inch	19 Inch	17 Inch	19 Inch
Native Resolution	1280 x 1024 @ 60Hz	1280 x 1024 @ 60Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz
Pixel Pitch	0.264mm x 0.264mm	0.294mm x 0.294mm	0.264mm x 0.264mm	0.294mm x 0.294mm
Brightness	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
Contrast Ratio	1000 : 1	1000 : 1	1000 : 1	1000 : 1
Aspect Ratio	5 : 4	5 : 4	5 : 4	5 : 4
Viewing Angle (H/V)	160° / 160°	170° / 160°	170° / 160°	170° / 160°
Response Time	< 5ms	< 5ms	< 5ms	< 5ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE				
BNC Video In / Out	1 / 1	1 / 1	2 / 2	2 / 2
S-Video In	0	0	1	1
VGA In (15Pin D-Sub)	1	1	1	1
HDMI In	1	1	1	1
Audio In (RCA)	2(L+R)	2(L+R)	2(L+R)	2(L+R)
PC Stereo In	1	1	1	1
TRANSMITTER				
Remote Control	Option	Option	Yes	Yes
AUDIO				
Built-in Speakers	Option	Option	Yes (1W x 2)	Yes (1W x 2)
FEATURES				
Filter Type	2D Comb Filter	2D Comb Filter	2D Comb Filter	2D Comb Filter
3D Adaptive Deinterlace	N/A	N/A	Yes	Yes
Noise Reduction	N/A	N/A	Yes	Yes
LCD Protection Glass	N/A	N/A	Option	Option
Auto Source Sequencing	N/A	N/A	Yes	Yes
Multi Language	English, Spanish, French, German, Italian			
OUTLINE DIMENSION (W H D)				
Dimension (inch)	14.70 x 15.06 x 7.87	16.59 x 16.57 x 7.87	14.70 x 15.06 x 7.87	16.59 x 16.57 x 7.87
Net. Weight	3.6Kg (7.9 lbs)	6.0Kg (13.2 lbs)	3.72kg (8.2 lbs)	3.50Kg (7.7 lbs)
CABINET				
Material / Color	ABS Plastic / Black			
Desk Top Stand	Yes	Yes	Yes	Yes
Tilt	Yes	Yes	Yes	Yes
ENVIRONMENT				
Consumption: < On	< 35W	< 30W	< 23.5W	< 21W
Electrical Ratings	AC100 - 240V(50/60Hz) DC12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V
Operating Temperature	0° - 40° C / 32° - 104° F			
MOUNTS				
VESA™ Mount Size	75 x 75mm	75 x 75mm	75 x 75mm	75 x 75mm
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	WB-5, WB-10, WB-30, WB-31
Ceiling	CMK-01	CMK-01	CMK-01	CMK-01
Rack	RMK-08	RMK-08	RMK-08	RMK-08

* Design and Specifications are subject to change without notice



PREMIUM 4:3 ASPECT RATIO

The ORION Images 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.



RTC SERIES

SERIES	9REDP	15RTC	17RTC	19RTC
DISPLAY	LED	LED		LED
Screen Size	9.7 Inch	15 Inch	17 Inch	19 Inch
Native Resolution	1024 x 768 @ 75Hz	1024 x 768 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz
Pixel Pitch	0.192mm x 0.192mm	0.297mm x 0.297mm	0.264mm x 0.264mm	0.294mm x 0.294mm
Brightness	350cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
Contrast Ratio	500 : 1	500 : 1	1000 : 1	1000 : 1
Aspect Ratio	4 : 3	4 : 3	5 : 4	5 : 4
Viewing Angle (H/V)	130° / 140°	150° / 130°	170° / 160°	170° / 160°
Response Time	< 20ms	< 8ms	< 5ms	< 5ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE				
BNC Video In / Out	2 / 2	2 / 2	2 / 2	2 / 2
S-Video In / Out	1 / 0	1 / 0	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1
DVI-D In / HDMI In	0 / 1	0 / 1	1 / 2	1 / 2
Audio In (RCA)	1	1	2(L+R)	2(L+R)
PC Stereo In	1	1	1	1
TRANSMITTER				
Remote Control	N/A	Yes	Yes	Yes
AUDIO				
Built-in Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)
FEATURES				
Multi Display Function	N/A	N/A	PIP / PBP	PIP / PBP
	N/A	N/A	Dual Composite Display	Dual Composite Display
Advanced Auto Power Recovery	N/A	N/A	Yes	Yes
Auto Pixel Shift	N/A	N/A	N/A	N/A
Filter Type	3D Adaptive Deinterlacer	3D Adaptive Deinterlacer	3D Comb Filter	3D Comb Filter
Deinterlacing	Yes	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes	Yes
LCD Protection Glass	N/A	Yes	Yes	Yes
Trigger Sensor	N/A	N/A	Yes (NO / NC)	Yes (NO / NC)
Auto Source Sequencing	Yes	Yes	Yes	Yes
Multi Language		English, Spanish, French, German, Italian		
OUTLINE DIMENSION (W H D)				
Dimension (inch)	8.46 x 7.44 x 2.81	13.66 x 11.65 x 3.19	14.92 x 13.23 x 3.43	16.38 x 14.37 x 3.43
Net. Weight	2.04Kg (4.5 lbs)	4.6Kg (10.1 lbs)	5.5kg (12.1 lbs)	6.99Kg (15.43 lbs)
CABINET				
Material / Color	Electronic galvanized Iron / Black			
Desk Top Stand	Tilt Back	Tilt Back	Tilt Back	Tilt Back
ENVIRONMENT				
Consumption: < On	< 20W	< 22W	< 29W	< 35W
Electrical Ratings	AC100 - 240V(50/60Hz) DC12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V
Operating Temperature	0° - 40° C / 32° - 104° F			
MOUNTS				
VESA™ Mount Size	75 x 75mm	100 x 100mm	100 x 100mm	100 x 100mm
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	WB-5, WB-10, WB-30, WB-31
Ceiling	CMK-01S	CMK-01	CMK-01	CMK-01
Rack	RMK-08	RMK-08	RMK-08	RMK-08

* Design and Specifications are subject to change without notice



DUAL DISPLAY 9REDP x 2

9 Inch Dual Display RMK-08 Rack Mount
Acceptable Dual 9.7 inch or Single Monitor
Under 19 inch

VESA 75 x 75mm and 100 x 100mm Compatible
Easy Installation Cable Inputs

Side View



PREMIUM 16:9 ASPECT RATIO

The ORION Images 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.



SERIES	9REDPW	18REDP	21REDP	23REDP	27REDP	32REDP	42REDP
DISPLAY							
Screen Size	9 Inch	18.5 Inch	21.5 Inch (Full HD)	23 Inch (Full HD)	27 Inch (Full HD)	31.55 Inch (Full HD)	41.92 Inch (Full HD)
Native Resolution	1280 x 800 @ 75Hz	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz
Pixel Pitch	0.1515 x 0.1515	0.3 x 0.3	0.248 x 0.248	0.265 x 0.265	0.3114 x 0.3114	0.36375 x 0.36375	0.4845 x 0.4845
Brightness	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	400cd/m ²	450cd/m ²
Contrast Ratio	700 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1	1300 : 1	1300 : 1
Aspect Ratio	16 : 10	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	140° / 120°	170° / 160°	170° / 160°	170° / 160°	178° / 178°	178° / 178°	178° / 178°
Response Time	< 25ms	< 5ms	< 5ms	< 5ms	< 8ms	< 8ms	< 12ms
Display Color	16.7 million	16.7 million	16.7 million	16.7 million	16.7 Million	16.7 Million	16.7 Million
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 / 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
HDMI In	1	2	2	2	2	2	2
DVI-D In	0	1	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2
Audio In (RCA)	1	2(L+R)	2(L+R)	2(L+R)	3(L+R)	3(L+R)	3(L+R)
PC Stereo In	1	1	1	1	1	1	1
TRANSMITTER							
Remote Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AUDIO							
Built-in Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (7.5W x 2)	Yes (10W x 2)
FEATURES							
Multi Display Function	N/A	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP
	N/A	Dual Composite Display	Dual Composite Display	Dual Composite Display	Dual Composite Display	Dual Composite Display	Dual Composite Display
Advance Auto Power Recovery	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Auto Pixel Shift	N/A	Yes	Yes	Yes	Yes	Yes	Yes
3D Comb Filter	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Deinterlacing	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LCD Protection Glass	N/A	No	No	No	No	Yes	Yes
Trigger Sensor	N/A	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	Yes
Multi Language	English, Spanish, French, German, Italian						
OUTLINE DIMENSION (W H D)							
Dimension (inch)	8.46 x 6.89 x 2.68	17.6 x 11.6 x 3.1	20.4 x 13.1 x 3.1	21.7 x 13.9 x 3.1	25.2 x 16.89 x 6.3	28.82" x 19.14" x 6.3"	37.95" x 24.57" x 9.45"
Net. Weight	2.04Kg (4.5 lbs)	4.0kg (8.8 lbs)	6.0kg (13.2 lbs)	6.5kg (14.3 lbs)	9.0kg (19.8 lbs)	12.8kg (28.22 lbs)	23.55kg (51.8 lbs)
CABINET							
Material / Color	Electronic galvanized Iron / Black						
Base Stand	Tilt Back	Tilt Back	Tilt Back	Tilt Back	Desktop Stand	Desktop Stand	Desktop Stand
ENVIRONMENT							
Consumption: < On	< 20W	< 35W	< 38W	< 40W	< 100W	< 110W	< 120W
Electrical Ratings	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)
Operating Temperature	0° - 40° C / 32° - 104° F						
MOUNTS							
VESA® Mount Size	75 x 75mm	100 x 100mm	100 x 100mm	100 x 100mm	200 x 100mm	200 x 200mm	400 x 300mm
Wall	WB-5, WB-10, WB-30, WB-31				WB-5, WB-30, WB-31	WB-2642	WB-4663
Ceiling	CMK-01S	CMK-01	CMK-01	CMK-01	CMK-01	CMK-01 w/ FMA-01	CMH-01
Rack	RMK-08	RMK-08	RMK-08	RMK-08	N/A	N/A	N/A

* Design and Specifications are subject to change without notice

RACK MOUNT READY SERIES

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 9.7", 15", 17", 19" sizes to accommodate many configurations. Ideal for server racks, cabinets, room controls, and security monitoring solutions.



RCR SERIES



SERIES	9RCRD (Dual Rack)	15RCR	17RCR	19RCR
DISPLAY LED LED				
Screen Size	9.7 Inch	15 Inch	17 Inch	19 Inch
Native Resolution	1024 x 768 @ 75Hz	1024 x 768 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz
Pixel Pitch	0.192 x 0.192mm	0.297 x 0.297mm	0.264 x 0.264mm	0.294 x 0.294mm
Brightness	350cd/m ²	300cd/m ²	250cd/m ²	250cd/m ²
Contrast Ratio	500 : 1	700 : 1	1000 : 1	1000 : 1
Aspect Ratio	4 : 3	4 : 3	5 : 4	5 : 4
Viewing Angle (H/V)	130° / 140°	160° / 160°	170° / 160°	170° / 160°
Display Color	262,144 colors	16.2 Million	16.7 Million	16.7 Million
Response Time	< 20ms	< 8ms	< 5ms	< 5ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE				
BNC Video In / Out	2(4) / 2(4)	1 / 1	2 / 2	2 / 2
S-Video In	1(2)	0	1	1
VGA In (15Pin D-Sub)	1(2)	1	1	1
HDMI In	1(2)	1	1	1
Audio Input (RCA)	1(2)	1	1	1
PC Stereo In	1(2)	1	1	1
TRANSMITTER				
Remote Control	N/A	N/A	Yes	Yes
AUDIO				
Built-in Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)
FEATURES				
3D Adaptive DeInterlacer	Yes	N/A	Yes	Yes
Filter Type	2D Comb Filter	2D Comb Filter	2D Comb Filter	2D Comb Filter
Noise Reduction	Yes	Yes	Yes	Yes
Auto Source Sequencing	Yes	Yes	Yes	Yes
Multi Language	English, Spanish, French, German, Italian			
OUTLINE DIMENSION (W H D)				
Dimension (inch)	18.98 x 8.66 x 1.97	18.98 x 10.39 x 2.87	18.98 x 13.90 x 2.87	18.98 x 13.90 x 2.87
Net. Weight	3.4kg (7.6 lbs)	4.3kg (9.5 lbs)	5.7kg (12.7 lbs)	5.8kg (12.79 lbs)
CABINET				
Material / Color	Electronic galvanized Iron / Black			
Tilt Function	Yes	Yes	Yes	Yes
ENVIRONMENT				
Consumption: < On	< 35W	< 25W	< 30W	< 20W
Electrical Ratings	AC100 - 240V(50/60Hz) DC12V / 3.5A	AC100 - 240V(50/60Hz) DC12V / 3A	AC100 - 240V(50/60Hz) DC12V / 3.5A	AC100 - 240V(50/60Hz) DC12V / 3.5A
Operating Temperature	0° - 40° C / 32° - 104° F			
Mounts				
VESA™ Mount Size	75mm x 75mm	100mm x 100mm	100mm x 100mm	100mm x 100mm
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	WB-5, WB-10, WB-30, WB-31
Ceiling	CMK-01S	CMK-01	CMK-01	CMK-01
Form Factor	5U Rack Mounting	6U Rack Mounting	8U Rack Mounting	8U Rack Mounting
Mount Type	Tilttable Rack Mount	Tilttable Rack Mount	Tilttable Rack Mount	Tilttable Rack Mount

* Design and Specifications are subject to change without notice

15 INCH RCR SERIES

ORION Images introduces 15 inch rack mount ready monitor series.



15RCR Front View



15RCR Rear View



15RCR Side View

SUNLIGHT READABLE SERIES



ORION Images Sunlight readable LCD monitors offer enhanced ultra-high brightness LCD color display for high ambient light applications. 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. They are designed for use in applications such as industrial machinery, kiosk, ATM machines and order confirmation system.

LED

SR SERIES

SERIES	15RTCSR	17RTCSR	19RTCSR	32RTCSR	42RTCSR
DISPLAY	LED		LED		LED
Screen Size	15 Inch	17 Inch	19 Inch	31.55 Inch	42 Inch
Native Resolution	1024 x 768 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz
Pixel Pitch	0.297 x 0.297 mm	0.264 x 0.264 mm	0.294 x 0.294 mm	0.51075 x 0.51075 mm	0.4845 x 0.4845 mm
Brightness (Indoor)	1000cd/m ²	1000cd/m ²	1000cd/m ²	600cd/m ²	1200cd/m ²
Brightness (Outdoor 80K Lux)	1500cd/m ²	1500cd/m ²	1500cd/m ²	1000cd/m ²	1600cd/m ²
Contrast Ratio	2500 : 1	1000 : 1	1000 : 1	1300 : 1	1300 : 1
Aspect Ratio	4 : 3	5 : 4	5 : 4	16 : 9	16 : 9
Viewing Angle (H/V)	160° / 130°	170° / 160°	170° / 160°	178° / 178°	176° / 176°
Response Time	< 8ms	< 5ms	< 5ms	< 22ms	< 5ms
Video System	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
S-Video In / Out	1 / 0	1 / 1	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1	1	1
DVI-D In	0	1	1	1	1
HDMI In	1	2	2	2	2
Audio In (RCA Type)	1	2 (L + R)	2 (L + R)	2 (L + R)	3 (L + R)
PC Stereo In	1	1	1	1	1
RS232C In / Out	N/A	N/A	N/A	1 / 1	1 / 1
TRANSMITTER					
IR Remote Control	Yes	Yes	Yes	Yes	Yes
AUDIO					
Built-in Speakers	1W x 2	1W x 2	1W x 2	7.5W x 2	7.5W x 2
FEATURES					
Multi Display Function	N/A	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP
Trigger Source Switching	N/A	Yes (NO/NC)	Yes (NO/NC)	Yes (NO/NC)	Yes (NO/NC)
Auto Pixel Shift	N/A	N/A	N/A	Yes	Yes
Advance Auto Power Recovery	Yes	Yes	Yes	Yes	Yes
Filter Type	3D Comb Filter, Deinterlace	3D Comb Filter, Deinterlace	3D Comb Filter, Deinterlace	3D Comb Filter, Deinterlace	3D Comb Filter, Deinterlace
Noise Reduction	Yes	Yes	Yes	Yes	Yes
Auto Source Sequencing	Yes	Yes	Yes	Yes	Yes
Auto Power Recovery	N/A	N/A	N/A	Yes	Yes
LCD Protection Glass	N/A	Yes	Yes	N/A	N/A
Transflective Enhancement	Yes	Yes	Yes	Yes	Yes
RS-232C Control	N/A	N/A	N/A	Monitor OSD control using PC	Monitor OSD control using PC
Multi-lingual Language	English, Spanish, French, German, Italian				
OUTLINE DIMENSION (W H D)					
Dimension (inch)	13.66 x 11.65 x 3.19	14.9 x 13.2 x 3.4	16.38 x 14.37 x 3.43	30.0 x 19.8 x 9.4	38.8 x 24.7 x 9.4
Net. Weight	5.0kg (11 lbs)	5.9kg (13.10 lbs)	7.4kg (16.3 lbs)	21.5kg (47.5 lbs)	24.9kg (55.0 lbs)
ENVIRONMENT					
Power consumption	< 35W	< 40W	< 45W	< 150W	< 230W
Electrical Ratings	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz) DC 12V	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)
Operating Temperature	0° - 40° C / 32° - 104° F				
MOUNTS					
VESA™ Mount Size	100 x 100mm	100 x 100mm	100 x 100mm	200 x 200mm	400 x 300mm
Mount	WB-5, WB-10, WB-30, WB-31	WB-5, WB-10, WB-30, WB-31	WB-5, WB-10, WB-30, WB-31	WB-2642	WB-2642
Enclosure	N/A	N/A	N/A	ENCL-A32	ENCL-A42
Rack	RMK-08	RMK-08	RMK-08	N/A	N/A
Ceiling	CMK-01	CMK-01	CMK-01	CMK-01	CMH-01

* Design and Specifications are subject to change without notice

VIEWFINDER / FIELD SERIES

ORION Images 7 inch and 9.7 inch Viewfinder / Field monitors featuring 178°/178° wide viewing angles and are capable of multi-inputs including 3G-SDI and HDMI input and output. Many of the built-in functions and front assignable buttons make very convenience to use in the field.



7" SCREEN

9" SCREEN

7" DUAL RACK MOUNT

VF SERIES

SERIES	VF703GHC	VF901GHC	VF903GHC	
DISPLAY	LED	LED	LED	
Screen Size	7.0 Inch	9 Inch	9 Inch	
Native Resolution	1280 x 800 pixels	1280 x 800 pixels	1280 x 800 pixels	
Pixel Pitch	0.117 x 0.117mm	0.1515 x 0.1515mm	0.1515 x 0.1515mm	
Brightness	400cd/m ²	250cd/m ²	250cd/m ²	
Display Color	16.7 Million	16.7 Million	16.7 Million	
Contrast Ratio	800 : 1	700 : 1	700 : 1	
Aspect Ratio	16 : 10	16 : 10	16 : 10	
Viewing Angle (H/V)	178° / 178°	140° / 120°	140° / 120°	
Response Time	< 13ms	< 25ms	< 25ms	
INTERFACE				
Video In / Out (BNC Type)	1 / 0	1 / 0	1 / 0	
Component In	1	1	1	
RGB In	1	0	0	
HDMI In / Out	1 / 1	1 / 0	1 / 1	
SDI In / Out (BNC Type)	1 / 1	1 / 1	1 / 1	
	SD-SDI	480i (59.94) / 575i (50)	480i (59.94) / 575i (50)	480i (59.94) / 575i (50)
	HD-SDI	720p (50 / 59.94 / 60)	720p (50 / 59.94 / 60)	720p (50 / 59.94 / 60)
		1080i (50 / 59.94 / 60)	1080i (50 / 59.94 / 60)	1080i (50 / 59.94 / 60)
	1080p (24 / 25 / 29.97 / 30)	1080p (24 / 25 / 29.97 / 30)	1080p (24 / 25 / 29.97 / 30)	
3G-SDI	1080p (50 / 59.94 / 60)	1080p (50 / 59.94 / 60)	1080p (50 / 59.94 / 60)	
Audio In (RCA Type)	1 (L+R)	1 (L+R)	1 (L+R)	
AUDIO				
Built In Speakers	Yes	Yes	Yes	
FEATURES				
Multi Display Function	PIP / PBP	PIP / PBP	PIP / PBP	
Filter Type	3D Comb Filter	2D Comb Filter	3D Comb Filter	
Tally Interface	Yes	N/A	Yes	
Battery Operation (XLR Type)	Yes	Yes	Yes	
Center & Screen Makers	Yes	N/A	Yes	
Noise Reduction	Yes	Yes	Yes	
Peaking Filter	Yes	N/A	Yes	
False Colors	Yes	N/A	Yes	
Aspect Ratio	Yes	Yes	Yes	
Under Scan	Yes	N/A	Yes	
H/V Delay	Yes	N/A	Yes	
Flip H/V	Yes	N/A	Yes	
CABINET				
Color	Black	Black / Gimbal bracket	Black / Gimbal bracket	
Material	Plastic	Electronic Galvanized Steel	Electronic Galvanized Steel	
Gimbal Bracket	Yes	Yes	Yes	
OUTLINE DIMENSION (W H D)				
Dimension (inch)	7.54 x 5.98 x 3.74 (w/ stand)	8.46 x 6.93 x 2.56 (No Hood)	8.46 x 6.93 x 2.56 (No Hood)	
Net. Weight	0.8kg (1.67 lbs)	1.7kg (3.75 lbs)	1.7kg (3.75 lbs)	
ENVIRONMENT				
Electrical Ratings	AC100 - 240V(50/60Hz)			
	DC 12V / 900mA	DC 12V / 900mA	DC 12V / 900mA	
Power Consumption	< 11W	< 20W	< 20W	
Operating Temperature	0° - 40° C / 32° - 104° F			

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VF703GHC RACK MOUNT



VF703G-RMK2
This model shown display dual VF703GHC View Finder monitor with RMK-02 4U rack mount kit.



BLK-02

VF703G-RMK1
This model shown display single VF703GHC View Finder monitor with BLK-02 metal plate.

PRODUCT FEATURES
(VF901GHC / 903GHC)



180°

Flexible desktop can be turn forward and backward 180 degrees easily. This feature is capable of mount jib boom broadcast.

Viewfinder monitor support 3G-SDI / HDMI / YPbPr / CVBS video inputs and 3G-SDI / HDMI video output. Also use DC7-24V (XLR Connector) power input. (VF903GHC)



SD • HD • 3G-SDI SERIES

The ORION Images introduces cost effective LED backlight (BLU) HD Digital observation system that delivers real time broadcast grade image. Also our full line HSDI3G series accept multi input interface CVBS, S-Video, VGA, Component, DVI-D and HDMI in addition to full SDI inputs. Perfect for high-end applications where the resolution of HD is ideal.



LED

HSDI3G SERIES

SERIES	19HSDI3G	23HSDI3G	27HSDI3G	32HSDI3G	42HSDI3G	55HSDI3G
DISPLAY	LED					
Screen Size	18.5 Inch	23 Inch	27 Inch	31.55 Inch	41.92 Inch	54.6 Inch
Native Resolution	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz
Pixel Pitch	0.300 x 0.300mm	0.2652 x 0.2652mm	0.3114 x 0.3114mm	0.364 x 0.364mm	0.4845 x 0.4845 mm	0.630 x 0.630 mm
Brightness	250cd/m ²	250cd/m ²	250cd/m ²	360cd/m ²	450cd/m ²	700cd/m ²
Contrast Ratio	1000 : 1	1000 : 1	1000 : 1	1400 : 1	1300 : 1	3500 : 1
Response Time	5ms	5ms	8ms	8ms	12ms	8ms
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	170° / 160°	178° / 178°	178° / 178°	178° / 178°	178° / 178°	178° / 178°
Display Color	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million
INTERFACE						
Video In/ Out (BNC Type)	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
DVI-D In / HDMI In	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2
Audio In (RCA)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)	2 (L+R)
SDI In / Out	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
PC Stereo In	SD-SDI	480i (59.94) / 575i (50)	480i (59.94) / 575i (50)	480i (59.94) / 575i (50)	480i (59.94) / 575i (50)	480i (59.94) / 575i (50)
	HD-SDI	720p (50 / 59.94 / 60)	720p (50 / 59.94 / 60)	720p (50 / 59.94 / 60)	720p (50 / 59.94 / 60)	720p (50 / 59.94 / 60)
		1080i (50 / 59.94 / 60)	1080i (50 / 59.94 / 60)	1080i (50 / 59.94 / 60)	1080i (50 / 59.94 / 60)	1080i (50 / 59.94 / 60)
	3G-SDI	1080p (24 / 25 / 29.97 / 30)	1080p (24 / 25 / 29.97 / 30)	1080p (24 / 25 / 29.97 / 30)	1080p (24 / 25 / 29.97 / 30)	1080p (24 / 25 / 29.97 / 30)
PC Stereo In	1	1	1	1	1	1
AUDIO						
Built in Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (7.5W x 2)	Yes (7.5W x 2)	Yes (7.5W x 2)
TRANSMITTER						
Remote Control	Yes	Yes	Yes	Yes	Yes	Yes
FEATURES						
Enhanced Picture	3D Comb Filter / Deinterlace / Noise Reduction					
Multi Display Function	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP	PIP / PBP
Trigger Source Switching	Yes	Yes	Yes	Yes	Yes	Yes
Auto Source Sequencing	Yes	Yes	Yes	Yes	Yes	Yes
Auto Pixel Shift	Yes	Yes	Yes	Yes	Yes	Yes
Advance Auto Power Recovery	Yes	Yes	Yes	Yes	Yes	Yes
Multi Language	English , Spanish, French, German, Italian					
OUTLINE DIMENSION (W H D)						
Dimension (Inch)	17.64 x 11.72 x 3.58	21.73 x 13.90 x 3.48	25.20 x 16.89 x 6.3	28.82 x 19.14 x 6.30	37.95 x 24.57 x 9.45	49.33 x 30.59 x 9.45
Net. Weight	4.5kg (9.9 lbs)	7.0kg (15.4 lbs)	9.5kg (20.9 lbs)	13.4kg (29.32 lbs)	23.9kg (50.04 lbs)	56.0kg (123.4 lbs)
CABINET						
Material / Color	Electrical galvanized iron / Black					
Base Stand	Desktop Stand	Desktop Stand	Desktop Stand	Desktop Stand	Desktop Stand	Desktop Stand
ENVIRONMENT						
Consumption: < On	< 27W	< 33W	< 44W	< 71W	< 125W	< 125W
Electrical Rating	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 / 3.33 A	DC 12V / 5 A				
Operating Temperature	0° - 40° C / 32° - 104° F					
MOUNTS						
VESA™ Mount Size	100 x 100mm	100 x 100mm	200 x 100mm	200 x 200mm	400 x 300mm	400 x 300mm
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	WB-2642	WB-4663	WB-4663
Ceiling	CMK-01	CMK-01	CMK-01	CMK-01	CMH-01	CMH-01
Rack	RMK-19 (Rack Ear)	RMK-08	N/A	N/A	N/A	N/A

* Design and Specifications are subject to change without notice

HD SDI CAMERA SERIES

ORION Images introduces HD-SDI cameras which defines digital video interfaces used for broadcast-grade video and this provides a nominal data rate of 1.485 Gbit/s.

HD CAMERA



SERIES	CHDC-21BSDC	CHDC-21BSD	CHDC-21DSD	CHDC-34BSD	CHDC-34DSDC	CHDC-21BSDHC
Camera Type	HD-SDI Box Type	HD-SDI Bullet Type	HD-SDI Dome Type	HD-SDI Box Type	HD-SDI Dome Type	HD-SDI / HDMI Box Type
Image Sensor	1/3" CMOS	1/2.9" CMOS	1/2.9" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/3" CMOS
Effective Pixels	2.1MP 1944 (H) x 1092 (V)	2.1MP 1936 (H) x 1105 (V)	2.1MP 1936 (H) x 1105 (V)	2.1MP 1952 (H) x 1116 (V)	3.27MP	2.1MP 1944 (H) x 1092 (V)
Lens	Option	4mm	4mm	Option	F2.8 - 12mm F1.2 Varifocal	Option
Digital Zoom	8x	32x	32x	N/A	N/A	16x
IR LED	N/A	24	12	N/A	N/A	N/A
Auto Focus Remote	N/A	N/A	N/A	N/A	N/A	N/A
Lens Mount	C/CS Mount	N/A	N/A	N/A	N/A	C/CS Mount
Sync	Internal	Internal	Internal	Internal	Internal	Internal
Iris	DC / Video / Manual	DC / Manual	DC / Manual	DC / Manual	DC / Manual	DC / Video / Manual
Minimum Sensitivity	0.1 Lux	0.5 Lux (Color) / 0.1 Lux (B/W)	0.5 Lux (Color) / 0.1 Lux (B/W)	0.2 Lux	1 Lux	0.1 Lux F1.2
S/No	More than 50dB	More than 50dB	More than 50dB	More than 52dB	More than 50dB	More than 50dB
VIDEO OUTPUT						
HD-SDI / 3G-SDI (BNC)	1	1	1	1	1	1
720p / 50	Yes	Yes	Yes	Yes	Yes	Yes
720p / 59.94	N/A	N/A	N/A	Yes	Yes	N/A
720p / 60	Yes	Yes	Yes	N/A	Yes	Yes
1080i / 50	N/A	N/A	N/A	Yes	Yes	Yes
1080i / 59.94	N/A	N/A	N/A	Yes	Yes	N/A
1080i / 60	N/A	N/A	N/A	N/A	Yes	Yes
1080p 25 / 60	Yes	Yes	Yes	N/A	Yes	Yes
1080p / 29.98	N/A	N/A	N/A	N/A	Yes	N/A
1080p / 50	N/A	N/A	N/A	Yes	Yes	Yes
1080p / 59.94	N/A	N/A	N/A	Yes	Yes	N/A
1080p / 60	N/A	N/A	N/A	Yes	Yes	Yes
CVBS	Yes (BNC)	N/A	N/A	N/A	Yes (BNC)	Yes (BNC)
HDMI	N/A	N/A	N/A	N/A	N/A	Yes
FUNCTIONS						
Day & Night	Yes (Digital)	Yes (Digital)	Yes (Digital)	Yes (Mechanical)	Yes (Mechanical)	Yes (Digital)
Backlight Comp.	Yes	Yes	Yes	Yes	Yes	Yes
WDR	Yes	Yes	Yes	N/A	Yes	Yes
Gamma	N/A	N/A	N/A	N/A	N/A	Yes
Shutter	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Privacy Mask	Yes	Yes	Yes	Yes	Yes	Yes
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Camera ID	Yes	Yes	Yes	Yes	Yes	Yes
Digital Slow Shutter (DSS)	N/A	Yes	Yes	Yes	N/A	Yes
Flickerless	N/A	Yes	Yes	N/A	N/A	N/A
Sharpness	Yes	Yes	Yes	Yes	N/A	Yes
Defog	N/A	Yes	Yes	Yes	N/A	Yes
Mirror Image	Yes	Yes	Yes	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes
Auto White Balance	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Serial Control	RS232C	N/A	N/A	RS485 (Pelco)	N/A	RS485 (Pelco)
BODY						
Indoor / Outdoor	Yes (w/ Housing)	Yes	Indoor Only	Yes (w/ Housing)	Yes (Vandal Type Dome, 3-Axis)	Yes (w/ Housing)
IP Rated	N/A	IP66	N/A	N/A	IP66	N/A
POWER						
Input Voltage	DC12V (10V - 16V)	DC12V (10V - 16V)	DC12V (10V - 16V)	DC12V (9V - 19V)	DC12V (9V - 19V)	DC12V (10.8V - 13.4V)
Power Consumption	190mA	Max 700mA	Max 700mA	450mA	450mA	400mA
DIMENSIONS						
Size (W H D)	4.02 x 2.32 x 2.32	2.37 x 2.37 x 3.54	4.13 x 3.35	2.6 x 2.25 x 5.46	6.45 x 4.78	2.17 x 2.32 x 1.97
REMOTE CONTROL						
RS485	N/A	N/A	N/A	Yes	Yes	N/A
RS232	Yes	N/A	N/A	N/A	N/A	Yes

* Design and Specifications are subject to change without notice.

HIGH SPEED HD CAMERA



APPLICATIONS

WHERE TO USE



Golf Swing



Baseball Batting Swing

This high speed CHDC-22BHSC camera is equipped with a CMOS image sensor that supports the Global Shutter function with 2048 x 1088 pixels. This camera perform 340 frames per second recording with an Optical Format of 2/3" and high sensitivity color camera for Broadcasting, Laboratory, Sports etc.

CHDC-22BHSC

CHDC-22BHSC		
Image Sensor	CMOS Image Sensor, 2048x1088 pixels, Optical Format: 2/3"	
Total Pixels	2048 (H) x 1088 (V) / 2,228,224 (pixel)	
Active Pixels	1920 (H) x 1080 (V) / 2,073,600 (pixel)	
Exposure	Global Shutter	
Dynamic Range	60dB	
Recording Memory	Internal 8GB DDR3 Memory (Max. 2048 x 1088 / 340fps appx. 8 sec)	
Capturing Speed	1920 x 1080p / 340fps, 1920 x 480p / 745fps	
Recording Image Compression	H.264 Compression (Max. 1920 x 1080p / 30fps)	
Control I/F	Recording / play trigger & OSD Button	
External Memory	Micro SD (T-Flash) H.264 Compress Image Recording	
Video Output	HD-SDI, HDMI, CVBS (NTSC / PAL)	
Output Resolution	HDMI	1920 x 1080p (25 / 29.97 / 30 / 50 / 60)
	SDI	1920 x 1080p (25 / 29.97 / 30) *Max Transmission: 100M (5C-HFBT Cable Use)
Display Output Port	HDMI x 1, HD-SDI x 1, CVBS x 1 (Include Multi-Cable), GENLOCK (Sync In / Output)	
GENLOCK	1920 x 1080p (25 / 29.97 / 30 / 50 / 60 Mode Only)	
GENLOCK Sync	Master / Slave Selectable	
I/O I/F	RS-232 x 1, Trigger In x 1, IR-Remote Controller 2 Each	
Power	DC +7 - 25V, 12W	
Scanning System	Progressive Scan (Sync System Internal)	
Min. Illumination	5.56V / Lux (with Micro Lenses @ 550nm)	
Lens Mount	C, CS	
Serial Port	RS-232	
IRIS	Video Type, DC-IRIS	
OSD	Yes	
Dimensions (mm)	210(W) x 80(H) x 100(D)	
Net Weight	1.4 Kg	

* Design and Specifications are subject to change without notice

10x ZOOM HD CAMERA

CHDC-24SDHC

CHDC-24SDHC				
Image Sensor	1/3" Panasonic CMOS Sensor			
Total Pixels	1956 (H) x 1266 (V) / 2.48M (pixel)			
Scanning System	Progressive Scan			
Resolution	Digital	1080i/59.94, 1080p/29.97, 1080i/60(50), 1080p/30(25), 1080p/59.94(50), 720p/60(50)		
	Analog	700TVL		
Min. Illumination	Color: 0.5 Lux, BW: 0.1 Lux, Color DSS: 0.002 Lux, BW DSS: 0.001 Lux			
Video Output	HD: HD-SDI, HDMI / Analog SD: VBS (without WDR)			
S/N Ratio	More than 50dB (AGC off)			
Lens Type	10x Day & Night Zoom Lens			
Zoom Ratio	Optical x10, Digital x32 Zoom / f=5.1mm ~ 51mm			
Aperture Ratio	F1.6 (wide) - F1.8 (Tele)			
Angle of View (D, H, V)	Wide	68°	54°	31°
	Tele	6.7°	4.9°	4.0°
Focus	Mode / Distance / Zoom Speed / Lens Refresh / E.Zoom			
Mode	Auto / One Push / Manual			
Shuttle Speed	1/30(25) ~ 1/30,000 sec			
Digital Slow Shutter	Off / x2 / x4 (x8: 60 or 50fps mode only)			
WDR / BLC	OFF / WDR / BLC			
Day & Night	Auto / Day / Night / Ext-in			
White Balance	Auto / One Push / Manual / Indoor / Outdoor			
Image	HLC / DNR / Mirror / Sharpness / ACE / Defog / Freeze / Gamma			
Intelligence	Privacy / Motion / DIS			
Privacy Mask	Off / On (24 Points)			
Motion Detection	Off / On (3 Points)			
Digital Image Stabilizer	Off / On			
Power Source	DC12V +/-10%, Max 700mA			
Remote Control	Pelco-P/D, VISCA, RS485 Wireless Controller, RS232 Serial Control Software			
Dimensions (W x H x D)	59.2mm x 62.2mm x 110.6mm			

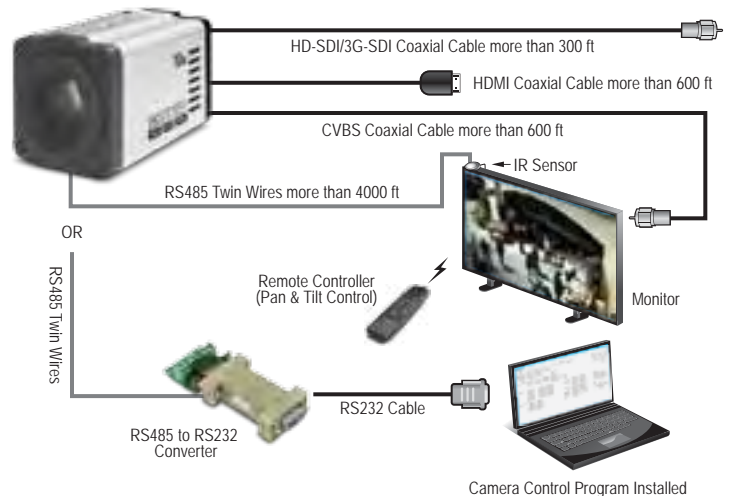
* Design and Specifications are subject to change without notice

This CHDC-24SDHC is very compact Full HD broadcast camera which built-in optical 10x zoom lens and output of 1080i / 720p / 1080p format thru the SDI and HDMI.



CABLE CONNECTION

DIAGRAM



IP NETWORK MONITOR SERIES

The ORION Images released a new 18.5, 27 and 32 inch network CCTV monitor with built-in Android 4.2 OS, Quad Core RK 3188, Cortex A9, 8GB internal memory and snap shot capability.



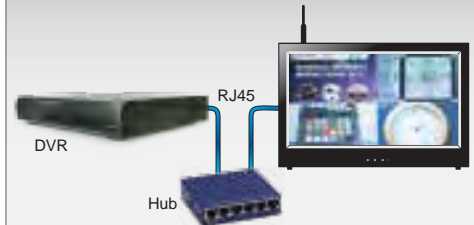
IREDP SERIES

SERIES	23IREDP	27IREDP	32IREDP
DISPLAY	LED	LED	LED
Screen Size	23 Inch	27 Inch	31.55 Inch
Native Resolution	1920 x 1080 @60Hz	1920 x 1080 @60Hz	1920 x 1080 @60Hz
Brightness	250cd/m ²	250cd/m ²	400cd/m ²
Contrast Ratio	1000 : 1	1000 : 1	1300 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	170° / 160°	178° / 178°	178° / 178°
Response Time	< 5ms	< 8ms	< 8ms
Display Color	16.7 Million	16.7 Million	16.7 Million
INTERFACE			
CVBS In / Out	2 / 2	2 / 2	2 / 2
Ethernet	1 (RJ45)	1 (RJ45)	1 (RJ45)
S-Video in / Out	1 / 1	1 / 1	1 / 1
VGA In (15Pin D-Sub)	1	1	1
DVI-D In / HDMI In	1 / 2	1 / 2	1 / 2
Audio In (RCA Type)	2(L+R)	2(L+R)	2(L+R)
PC Stereo In	1	1	1
TRANSMITTER			
Remote Controller	Yes	Yes	Yes
AUDIO			
Built-In Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)
ANDROID PC			
4.2OS Quad Core	Built-In	Built-In	Built-In
Internal Memory	8GB	8GB	8GB
WiFi	802.11b/g/n	802.11b/g/n	802.11b/g/n
FEATURES			
Multi Display Function	PIP / PBP	PIP / PBP	PIP / PBP
Filter Type	3D Comb Filter	3D Comb Filter	3D Comb Filter
Deinterlacing	Yes	Yes	Yes
Noise Reduction	Yes	Yes	Yes
Advanced Auto Power Recovery	Yes	Yes	Yes
Auto Pixel Shift	Yes	Yes	Yes
Auto Source Sequencing	Yes	Yes	Yes
Trigger Sensor	Yes (NO / NC)	Yes (NO / NC)	Yes (NO / NC)
Multi Language		English, Spanish, French, German, Italian	
OUTLINE DIMENSION (W H D)			
Dimension (inch)	21.73 x 13.90 x 3.62	25.20 x 16.89 x 6.30	28.82 x 19.14 x 6.30
Net. Weight	7.1 Kg (15.6 lbs)	8.5 Kg (18.74 lbs)	TBD
CABINET			
Material / Color	Metal / Black	Metal / Black	Metal / Black
Base Stand	DeskTop Stand	DeskTop Stand	DeskTop Stand
ENVIRONMENT			
Consumption: <On	< 40W	< 100W	< 110W
Electrical Rating	DC 12V AC100-240V (50/60Hz)	N/A AC100-240V (50/60Hz)	N/A AC100-240V (50/60Hz)
Operating Temperature		0° - 40° C / 32° - 104° F	
MOUNTS			
VASA™ Mount Size	100 x 100mm	200 x 200mm	200 x 200mm
Wall	WB-5, WB-10, WB-30, WB-31	WB-2642	WB-2642
Ceiling	CMK-01	CMK-01 with FMA-01	CMK-01 with FMA-01

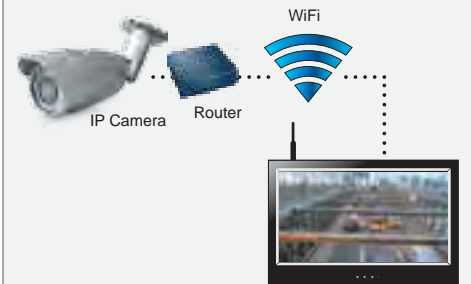
* Design and Specifications are subject to change without notice

IP NETWORK CONNECTION

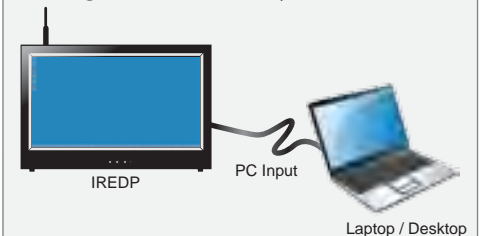
- 1 Direct connect to NVR or DVR with RJ45 cable



- 2 Using WiFi through router to IP camera



- 3 Use IREDP as desktop PC monitor



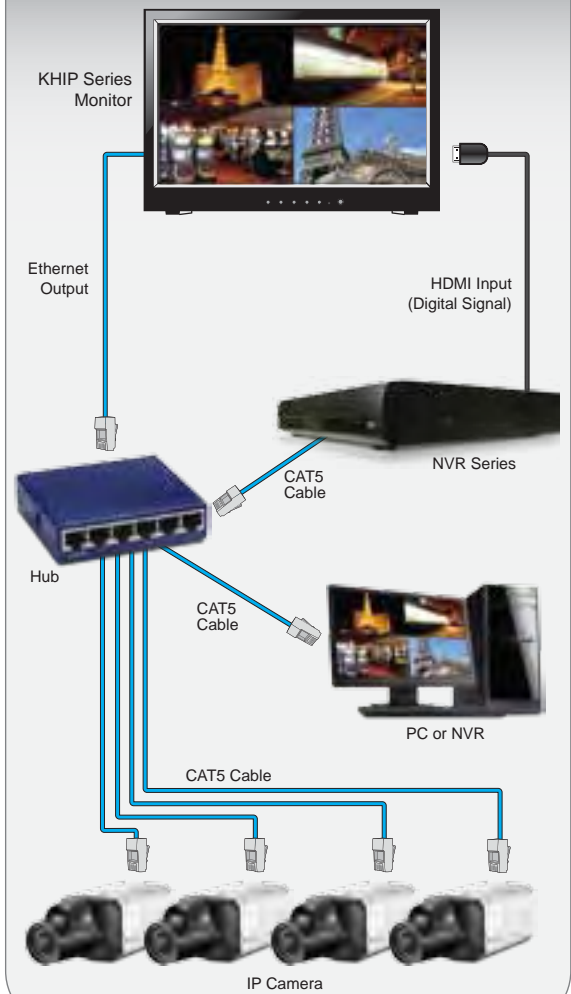
IP OUT MONITOR SERIES

The new KHIP is a commercial grade full HD monitor with video output over IP. What is seen on the screen can be viewed or recorded remotely via an IP connection. The KHIP features an HDMI input (or DVI with optional adapter), ONVIF compliance, 10/100 Ethernet connection, LED backlight.



KHIP SERIES

IP OUT NETWORK CONNECTION



SERIES	21KHIP	46KHIP
DISPLAY	LED	
Screen Size	21.5 Inch	46 Inch
Native Resolution	1920 x 1080 @60Hz	1920 x 1080 @60Hz
Pixel Pitch	0.248 x 0.248mm	0.53025 x 0.53025mm
Brightness	250cd/m ²	700cd/m ²
Contrast Ratio	1000 : 1	4000 : 1
Aspect Ratio	16 : 9	16 : 9
Viewing Angle (H/V)	170° / 160°	178° / 178°
Response Time	< 5ms	< 8ms
Display Color	16.7 Million	16.7 Million
INTERFACE		
HDMI In	1	1
Ethernet 10/100 Out	1	1
	Resolution	1080p, 720p, D1 - QCIF
	Bit Rate	32Kbps - 6Mbps
	Streaming	Triple (H.264 / MPEG / MPEG4)
TRANSMITTER		
Remote Controller	Yes	Yes
FEATURES		
LCD Protection Glass	Yes	N/A
Multi Language	English, Spanish, French, German, Italian	English, Spanish, French, German, Italian
OUTLINE DIMENSION (W H D)		
Dimension (inch)	20.4 x 13.3 x 3.1	41.33 x 23.74 x 3.82 (w/o Stand)
Net. Weight	6.2 Kg (13.7 lbs)	31.4 Kg (69.23 lbs)
CABINET		
Material / Color	Metal / Black	Metal / Black
Base Stand	Kick Stand	DeskTop Stand
ENVIRONMENT		
Consumption: <On	< 38W	< 260W
Electrical Rating	DC 12V / 3.5A	N/A
	AC100-240V (50/60Hz)	AC100-240V (50/60Hz)
Operating Temperature	0° - 40° C / 32° - 104° F	0° - 40° C / 32° - 104° F
MOUNTS		
VASA™ Mount Size	100 x 100mm	600 x 400mm
Wall	WB-5, WB-10, WB-30, WB-31	WB-4663, WBLS2
Ceiling	CMK-01	CMH-01

* Design and Specifications are subject to change without notice.



1 AC Power 2 DC12V In 3 HDMI In 4 Ethernet 10/100

1 HDMI In 2 Ethernet 10/100 3 AC Power

IP & ANALOG TEST MONITOR

The ORION Images IP camera tester is designed for maintenance and installation of both IP and analog camera as well as other security equipments. It enable to test or display network HD camera and analog camera image in top quality. These testers are great tool for Ethernet network and cabling system. It can test PoE power voltage,



TMIP SERIES



AVAILABLE TEST FUNCTIONS



WiFi 802.11b/g/n

Built-in 150M speed WiFi, display wireless camera image



IP Video

Any ONVIF IP video can be displayed and zoom in



Video/Snap Shot Recording

Video recording, files named & save, easy to find



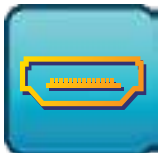
IP Address Scan & Ping Test

Scan & search IP address, Ping to locate ip address



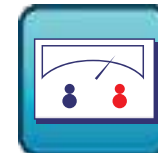
Touch Screen & Key Operation

Touch screen capability to access OSD menu in easier way



HDMI Output

HDMI 1 Output to display 1920 x 1080p image resolution



Digital Multi Meter

AC/DC voltage, AC/DC current Resistance, Capacitance, Data hold, Relative measurement, Continuity testing



Zoom Images Support

Analog camera & IP camera image zoom / move



BNC Input & Output

Both IP & analog images can be displayed and zoomed in 1-4 times and output



PoE Power Output

Support 48V PoE power output, Maximum power up to 24W

TMIP TESTER COMPARISON

SERIES	TMIP35	TMIP35A	TMIP43	TMIPHD7
DISPLAY				
Screen Size	3.5 Inch	3.5 Inch	4.3 Inch	7 Inch
Native Resolution	480 x 320	480 x 320	800 x 480	1024 x 600
ANALOG VIDEO				
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
Video Display	✓	✓	✓	✓
Zoom	✓ (10x)	✓ (4x)	✓ (4x)	✗
Video / Snap shot Record	✓	✓	✓	✗
Color Bar Generator	✓	✓	✓	✗
PTZ Control RS485	✓	✓	✓	✓
PTZ Address Search	✓	✓	✓	✗
Cable Scan	✓	✓	✓	✗
Cable Tester	✓	✓	✓	✗
IP VIDEO				
Video Display (ONVIF)	✗	✓	✓	✓
WiFi 802.11b/g/n	✗	✓ (ONVIF)	✓ (ONVIF)	✓ (Not for Camera Video)
Ethernet I/F	✗	✓	✓	✓
Multi-Segments IP Address	✗	✓	✓	✗
Ping Test	✓	✓	✓	✓
IP Address Scan	✓	✓	✓	✓
IP PTZ Control	✗	✓	✓	✗
Support 30 IP Camera Protocol	✗	✗	✓	✗
VMS for Mobile Phone*	✗	✗	✓	✗
OUTPUT				
HDMI Output	✗	✗	✓	✗
DC12V Power Output	✓ (1A)	✓ (2A)	✓ (2A)	✓ (1A)
DC5V Power Output	✗	✓ (2A)	✓ (2A)	✗
PoE 48V Power Output	✗	✗	✓	✗
OTHER FUNCTIONS				
LED Lamp	✓	✓	✓	✗
Touch Screen & Key Operation	Key Operation	Touch & Key Operation	Touch & Key Operation	Touch Screen
Audio Input Test	✓	✓	✓	✓
PoE Tester	✓	✓	✓	✗
Digital Multi-Meter	✓	✓	✓	✗
Lithium Polymer Battery	3.7V 3000mAH	3.7V 3000mAH	7.4V 5000mAH	Factory Option
Max Working Time	11 Hours	8 Hours	16 Hours	8 Hours
STANDARD ACCESSORIES				
Carrying Bag	✓	✓	✓	✓
BNC Cable	✓	✓	✓	✓
Audio Cable	✓	✓	✓	✓
CAT5 Cable (RJ45)	✗	✗	✗	✓
Multi-Meter Cord	✓	✓	✓	✗
AC Charger	✓	✓	✓	✓
RS485 Cable	✓	✓	✓	✗
4GB Micro SD Card	✓	✓	✓	✗
Camera Power Cable	✓	✓	✓	✓

Design and Specifications are subject to change without notice

* When IP camera manufacturer offer this VMS, then it can be installed

TMIP43 APPLIES TO MANY DIFFERENT APPLICATIONS



The ORION Images TMIP43 IP network CCTV tester has advantages that can be applied to many different applications. It can test analog, WiFi, IP or ONVIF network cameras.

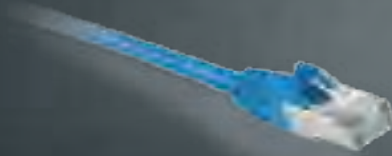


IP HD PUBLIC VIEW MONITOR

The ORION Images IP Network HD PVM (Public View Monitor) with built in 1080p camera and motion detection sensor becomes a highly effective theft deterrent tool creating awareness that a security surveillance system is in place.



RJ45 PORT



IP HD PVM

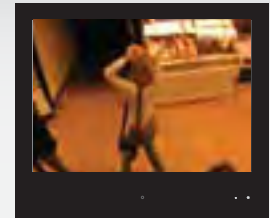
SERIES	231PHPVM	271PHPVM	321PHPVM
DISPLAY	LED		
Screen Size	23 Inch	27 Inch	31.55 Inch
Native Resolution	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz
Brightness	250cd/m ²	250cd/m ²	400cd/m ²
Contrast Ratio	1000 : 1	1000 : 1	1300 : 1
Aspect Ratio	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	178° / 178°	178° / 178°	178° / 178°
Display Color	16.7 Million	16.7 Million	16.7 Million
Response Time	< 5ms	< 8ms	< 8ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE			
CVBS In / Out	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)
HD-SDI Out (BNC Type)	1	1	1
IP H.264 ONVIF Out	1 (RJ45)	1 (RJ45)	1 (RJ45)
VGA In (15Pin D-Sub)	1	1	1
HDMI In	1	1	1
Audio In (RCA)	1 (L+R)	1 (L+R)	1 (L+R)
PC Stereo In	1	1	1
TRANSMITTER			
Remote Control	Yes	Yes	Yes
AUDIO			
Built-in Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (7.5W x 2)
FEATURES			
Filter Type	3D Comb Filter	3D Comb Filter	3D Comb Filter
3D Motion Adaptive De-interlacing	Yes	Yes	Yes
Motion Detection	PIR Motion Sensor	PIR Motion Sensor	PIR Motion Sensor
Auto Source Sequencing	Yes	Yes	Yes
OUTLINE DIMENSION (W H D)			
Dimension (mm)	551.9 x 387.6 x 80	654 x 451.6 x 80	752 x 515.1 x 80
Net. Weight	10kg (22 lbs)	TBD	TBD
CABINET			
Material	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel
ENVIRONMENT			
Consumption: < On	< 40W	< 100W	< 110W
Electrical Ratings	AC100 ~ 240V(50/60Hz) DC 12V	AC100 ~ 240V(50/60Hz)	AC100 ~ 240V(50/60Hz)
Operating Temperature	0° ~ 40° C / 32° ~ 104° F		
MOUNTS			
VESA® Mount Size	200 x 200mm	200 x 200mm	200 x 200mm
Wall	WB-2642	WB-2642	WB-2642
Ceiling	CMK-01	CMK-01 with FMA-01	CMK-01 with FMA-01
CAMERA			
Camera Type	WDR		
Image Sensor	1/3" PANASONIC 2.2 Mega Pixel CMOS		
Mechanical Design	Tilt Swivel 1080p Camera		
S/N Ratio	>50 dB		
Resolution	Horizontal : 1000 TV Lines		
Lens Mount	2.8-12mm Vari-focal 3MP Lens		
Sensitivity	0.1 / 0.002 Lux Sens-up x 256		
Electronic Shutter	1/60 ~ 1/60,000 sec		

* Design and Specifications are subject to change without notice.

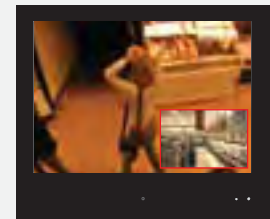
ADVANTAGES

PIP

IPHPVM has capability of Picture In Picture (PIP) function to display secondary video or image on the same screen.



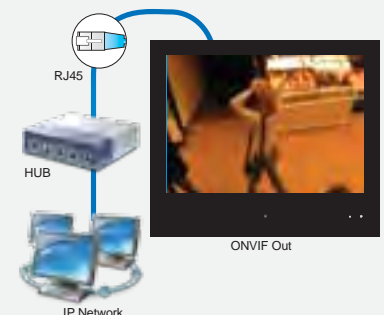
Before apply PIP



After PIP is turned ON

IP OUT

IPHPVM support ONVIF standard for the interface of IP-based physical security products.



PUBLIC VIEW MONITOR SERIES

ORION Images Public View Monitor (PVM) 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.



PVM SERIES

SERIES	10PVMV	19PVMV	23PVMV	27PVMV	32PVMV
DISPLAY	LED				
Screen Size	9.7 Inch	19 Inch	23 Inch	27 Inch	31.55 Inch
Native Resolution	1024 x 768 @60Hz	1280 x 1024 @60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @60Hz
Brightness	390cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	400cd/m ²
Contrast Ratio	900 : 1	1000 : 1	1000 : 1	1000 : 1	1300 : 1
Aspect Ratio	4 : 3	5 : 4	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	178° / 178°	170° / 160°	170° / 160°	178° / 178°	178° / 178°
Display Color	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million
Response Time	< 30ms	< 5ms	< 5ms	< 8ms	< 8ms
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL	NTSC / PAL
INTERFACE					
CVBS In / Out	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)	1 / 2 (Include Camera Out)
VGA In (15Pin D-Sub)	1	1	1	1	1
HDMI In	1	1	1	1	1
Audio In (RCA)	1 (L+R)	1 (L+R)	1 (L+R)	1 (L+R)	1 (L+R)
PC Stereo In	1	1	1	1	1
TRANSMITTER					
Remote Control	Yes	Yes	Yes	Yes	Yes
AUDIO					
Built-in Speakers	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (1W x 2)	Yes (7.5W x 2)
FEATURES					
Filter Type	2D Comb Filter	3D Comb Filter	3D Comb Filter	3D Comb Filter	3D Comb Filter
3D Motion Adaptive De-interlacing	Yes	Yes	Yes	Yes	Yes
Motion Detection	N/A	PIR Motion Sensor	PIR Motion Sensor	PIR Motion Sensor	PIR Motion Sensor
Auto Source Sequencing	Yes	Yes	Yes	Yes	Yes
OUTLINE DIMENSION (W H D)					
Dimension (inch)	9.33 x 8.27 x 1.97	16.46 x 15.81 x 3.15	21.73 x 15.26 x 3.15	25.75 x 17.78 x 3.15	29.61 x 20.28 x 3.15
Net. Weight	2.2kg (4.85 lbs)	6.5kg (14.33 lbs)	6.98kg (15.4 lbs)	11.0kg (24.25 lbs)	21.0 (46.3 lbs)
CABINET					
Material	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel	Electro-Galvanized Steel
ENVIRONMENT					
Consumption: < On	< 11W	< 30W	< 40W	< 100W	< 110W
Electrical Ratings	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)	AC100 - 240V(50/60Hz)
	DC 12V	DC 12V (Option)	DC 12V (Option)	DC 24V (Option)	DC 24V (Option)
Operating Temperature	0° - 40° C / 32° - 104° F				
MOUNTS					
VESA™ Mount Size	75 x 75mm	100 x 100mm	100 x 100mm	200 x 200mm	200 x 200mm
Wall	WB-05, WB-10, WB-30, WB-31			WB-2642	WB-2642
Ceiling	CMK-01S	CMK-01	CMK-01	CMK-01 with FMA-01	CMK-01 with FMA-01
CAMERA					
Camera Type	Digital WDR	WDR			
Image Sensor	1/3" 520K Color CCD	1/3" SONY 410K Double Scan CCD			
Mechanical Design	Pin Hole Camera	Tilt Swivel Camera			
S/N Ratio	>52dB	>52 dB			
Resolution	700 TV Lines (960H)	Horizontal : 600 TV Lines			
Lens Mount	3.7mm Lens (F=2.4)	2.8-12mm Vari-focal Lens (F=1.4)			
Sensitivity	Min. 0.1 Lux	0.4 / 0.0001 Lux			
Electronic Shutter	1/60-120,000 sec (NTSC)	1/60 - 1/100,000 sec			

* Design and Specifications are subject to change without notice

INDOOR & OUTDOOR ENCLOSURE SERIES

The ORION Images enclosure is protective indoor, outdoor sealed to IP56 and durable against the effects of heavy rain, dust, extremes temperature, high impact forces and electrical surges. LCD enclosures are available in sizes 19" up to 70" and the perfect solution for outdoor locations or any area where vandalism may be a concern.



ENCL SERIES

SERIES	ENCL-A19	ENCL-A24	ENCL-A32	ENCL-A42	ENCL-A46	ENCL-A55	ENCL-A70
SIZE							
Enclosure	19 Inch	24 Inch	32 Inch	42 Inch	46 Inch	55 Inch	70 Inch
Window (Inch)	15.1(W) x 12.2(H)	21.9(W) x 13.4(H)	28.7(W) x 17.6(H)	37.8(W) x 20.9(H)	40.2(W) x 22.8(H)	46.4(W) x 27.5(H)	53.4(W) x 31.5(H)
FEATURES							
IP/NEMA Rating	IP56 / NEMA4	IP56 / NEMA4	IP56 / NEMA4	IP56 / NEMA4	IP56 / NEMA4	IP56 / NEMA4	IP56 / NEMA4
Interior Mounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual Security Locks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Filter Fans	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Anti-Reflective Window	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Air Curtain	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Plenum Chamber	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OUTLINE DIMENSION (W H D)							
Dimension (inch)	21.5 x 19.7 x 8.4	28.4 x 20.6 x 8.4	35.2 x 24.8 x 9.2	44.4 x 30.0 x 9.2	48.4 x 32.1 x 9.2	56.3 x 39.4 x 14.4	73.4 x 48.3 x 11.8
Net. Weight	3.4kg (44 lbs)	4.3kg (55 lbs)	4.3kg (66 lbs)	4.3kg (77 lbs)	4.3kg (88 lbs)	5.7kg (99 lbs)	5.8kg (132 lbs)
CABINET							
Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Color	Black	Black	Black	Black	Black	Black	Black
ENVIRONMENT							
Operating Temperature	0° - 40° C / 32° - 104° F						

* Design and Specifications are subject to change without notice



MOUNTS & ACCESSORY LIST

WALL MOUNT



WB-5 | Flat Wall Mount

- Fits most 8" to 24" flat panel
- VESA™ 75 x 75mm, 100 x 100mm
- Max weight 33 lbs



WB-10 | 3 Directional

- Fits 8" to 24" flat panel
- Tilt Up / Down 180°
- Pivot 180°, Swivel L/R 90°
- VESA™ 75 x 75mm, 100 x 100mm
- Max weight 33 lbs



WB-30 | Swing Out

- Fits 8" to 24" flat panel
- 90° Swing L/R, +/-15° Tilt, Pivot 360°
- Extends 3.5" to 17"
- VESA™ 75 x 75mm, 100 x 100mm
- Max weight 33 lbs



WB-31 | Swing Out Arm

- Fits 17" to 37" flat panel
- 180° Swing Left / Right
- +/- 15° tilt
- Extends 2" to 15"
- VESA™ 75 / 100 / 200mm
- Max weight 44 lbs



WB-S3763 | Swing Out Arm

- Fits 37" to 63" flat panel
- Extends from 4.9" to 20"
- +/-15° tilt, 120° swivel
- Mounting patterns up to 826 x 404mm
- Max weight 175 lbs



WB-2642 | Slim Tilt

- Fits 26" to 47" flat panel
- Depth from Wall 1.8"
- 10° adjustable tilt
- Mounting patterns up to 405 x 410mm
- Max weight 165 lbs



WB-4663 | Slim Tilt

- Fits 37" to 63" flat panel
- Depth from Wall 1.8"
- 10° adjustable tilt
- Mounting patterns up to 805 x 410mm
- Max weight 165 lbs



WB-4780 | Slim Tilt

- Fits 42" to 70" flat panel
- Depth from Wall 1.8"
- 10° adjustable tilt
- Mounting patterns up to 805 x 610mm
- Max weight 165 lbs



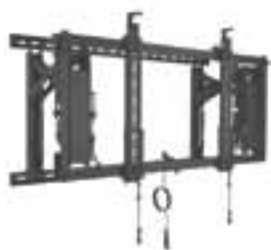
WBLS | Pull-Out

- Fits 32" to 46" flat panel
- Mounting profile 50-202mm
- Max VESA™ 600 x 400mm
- Mounting patterns up to 696 x 400mm
- Max weight 99 lbs



WBLS2 | Pull-Out

- Fits 42" to 70" flat panel
- Mounting profile 177 to 272mm
- Max VESA™ 762 x 506mm
- Mounting patterns up to 762 x 506mm
- Max weight 150 lbs



WBLS3 | Pull-Out

- Fits 42" to 70" flat panel
- Mounting profile 689-348mm
- Max VESA™ 700 x 400mm
- Tool-free easy alignment
- Serviceability & Rigidity
- Max weight 150 lbs

RACK MOUNT



RMK-08 | Rack Mount Kit

- Fits from single or dual 8" up to 19" LCD monitors
- Built in Tilt function
- 12° continuously adjustable tilt
- VESA™ 75 x 75mm, 100 x 100mm
- Max weight 20 lbs

CEILING MOUNT



FMA-01 | Flat Mount Adapter Plate

- Flat Metal Plate
- VESA™ 50 x 50mm or 75 x 75mm, 100 x 100mm, 200 x 100mm, 200 x 200mm
- Compatible with WB-10, WB-30, WB-31 and CMK-01 Mounts



FMA-06 | Flat Mount Adapter Plate

- Flat Metal Plate
- VESA™ 75 x 75mm or 100 x 100mm, 200 x 100mm, 300 x 300mm, 330 x 330mm
- Compatible with WB-10, WB-30, WB-31 and CMK-01 Mounts



CMA-01 | Single Lower Mount

- Fits 15" to 42" flat panel
- Lower Assembly Mount
- -12° ~ +5° tilt
- VESA™ 75 x 75mm, 100 x 100mm, 100 x 200mm, 200 x 200mm



CMA-02 | Dual Lower Mount

- Mount two flat panel
- Fit 15" to 42" flat panel
- -12° ~ +5° tilt
- VESA™ 75 x 75mm, 100 x 100mm, 100 x 200mm, 200 x 200mm



CMK-01 | Flat Panel

- Fits 15" to 37" flat panel
- Mounting profile 20" to 33"
- +/-20° tilt
- 180° swivel
- VESA™ 75 x 75mm, 100 x 100mm, 200 x 100mm, 200 x 200mm
- Cable pass through
- Max weight 66 lbs



CMK-01S | Flat Panel

- Fits 10" to 23" flat panel
- Mounting profile 20" to 30"
- +/-15° tilt
- 180° swivel
- VESA™ 75 x 75mm, 100 x 100mm
- Cable pass through
- Max weight 55 lbs

CAMERA MOUNT



CMH-01 | Ceiling Flat Panel

- Supports 37" to 63" flat panel
- Tilt +/- 15°
- No adapters needed
- 360° rotation
- Mounting profile 41" to 63"
- Max. VESA™ 800 x 400mm up to 810 x 480mm
- Suspends from ceiling w/ 1.5" NPT
- Max weight 165 lbs



CM-1 | Universal Camera Mount

- Box type cameras. Extension bar is included



CM-2 | Universal Camera Mount

- Mount with a cable hole for Box type cameras



ORION PRODUCT GUIDE 2015



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