

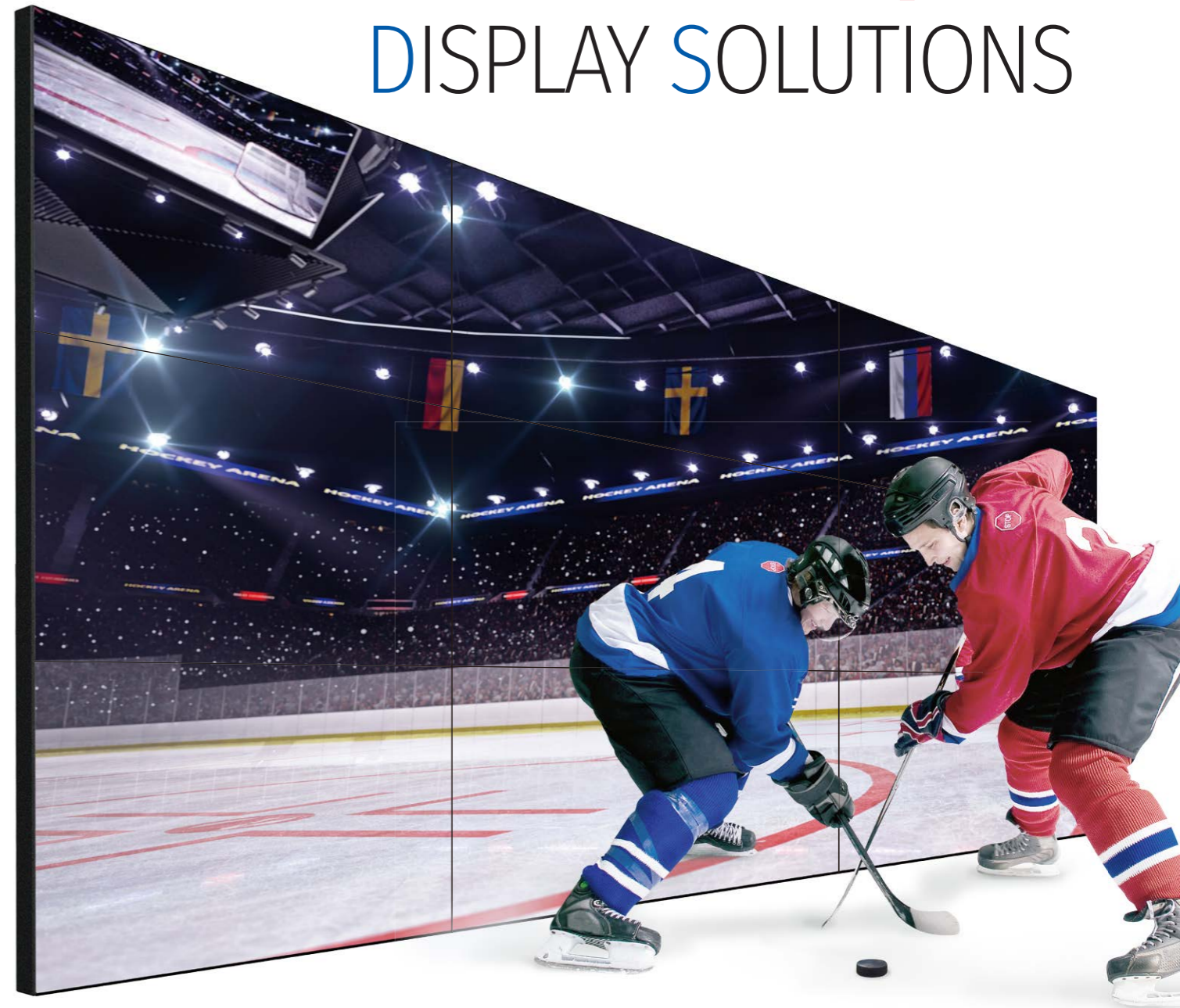


www.oriondisplay.net

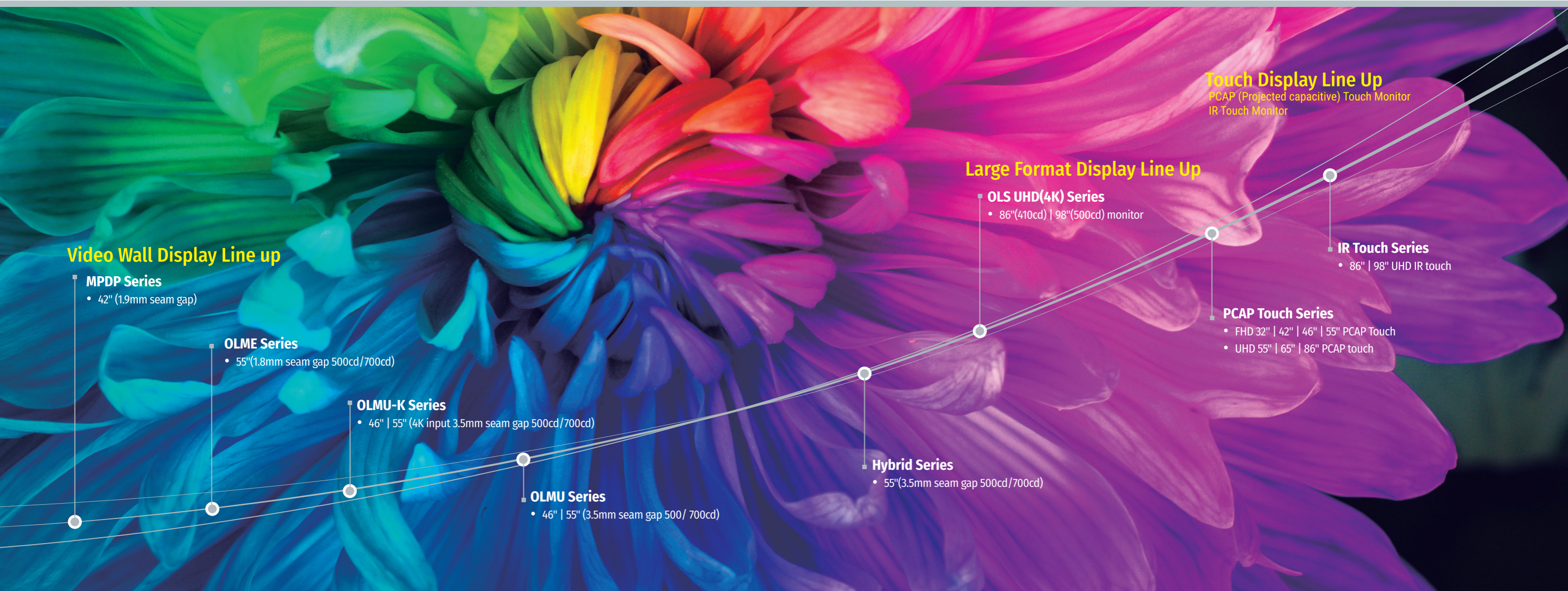
Orion Co., Ltd.

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ORION DISPLAY SOLUTIONS



ORION Public Display Line Up



42" 46" 55"

Video Wall Display



55"

Hybrid Video Wall Display



86" 98"
UHD UHD

Large Format Display



32" 42" 46" 55" 55" 65" 86"
Touch Touch Touch Touch Touch Touch Touch
4K 4K 4K

PCAP Touch Series



86" 98"

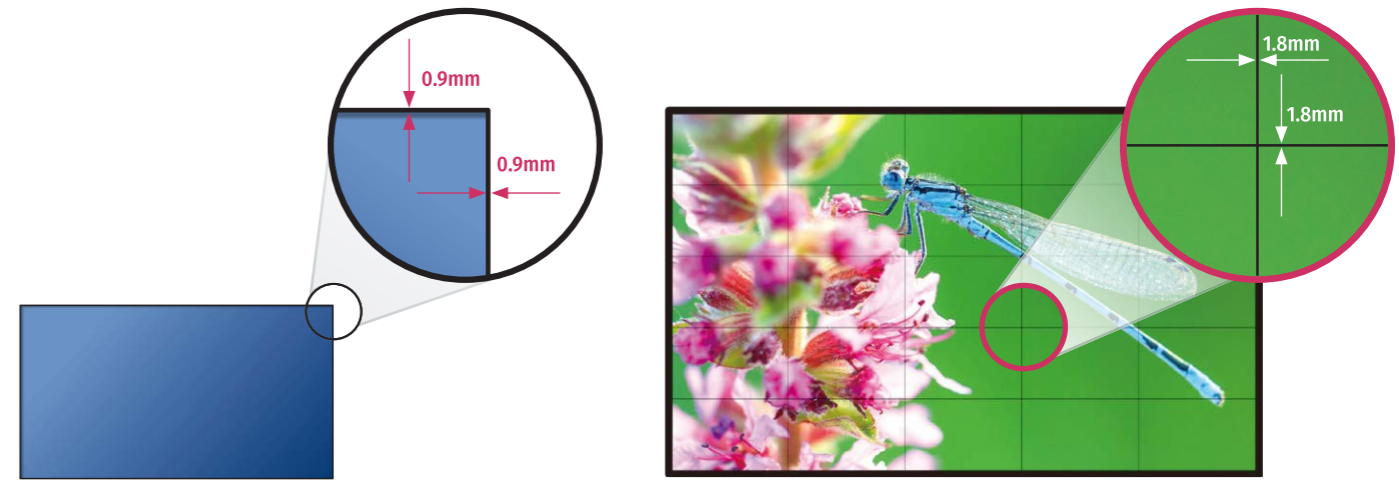
IR Touch Series



LCD Video Wall

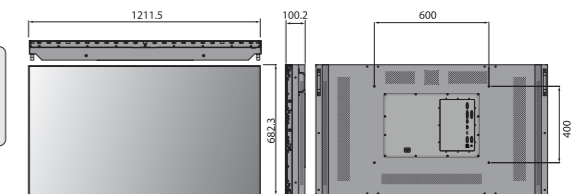
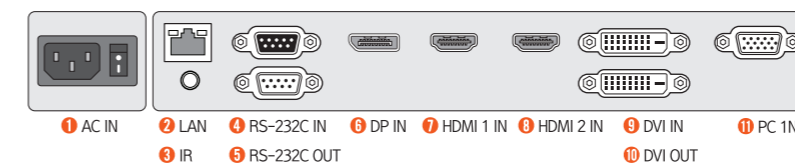
OLME Series : ENB(Extreme Narrow Bezel) MLCD

Orion OLME-5570(50)S video wall creates natural appearing full screen over multiple configuration of LCD panels with its extremely narrow bezel gap. This creates a powerful video wall minimizing the visual distraction and more continuous image spreads across multiple displays.



Specification

Model Name		OLME-5550S	OLME-5570S
Seam Gap		1.8mm	
Brightness (Typical)		500cd	700cd
Panel Type		IPS	
Panel	Back Light Type	Direct LED(Local Dimming)	
	Active Display Area (H x V mm)	1209.6 x 680.4	
	Aspect Ratio	16 : 9	
	Resolution	1920(H) x 1080(V)	
	Pixel Pitch(H x V)	0.63 x 0.63	
	Display Colors	1.07 Billion(10Bit)	
	Contrast Ratio (Typ.)	1,200:1 / 500,000:1(Dynamic Contrast Ratio)	
	Life Time(Back Light Unit)	60,000Hrs	
	Operation hours per day	24hrs	
AC Input Voltage		AC 100V~240V (50/60hz)	
Power Consumption	Max	230W	285W
	Typical	195W	250W
	Stand-By	≤ 0.47W	≤ 0.47W
Surface Treatment		Haze 10%, Anti-glare / Hard-Coating (3H)	
Mount		600 x 400(VESA)	
Dimension (W x H x D mm)		1211.5 x 682.3 x 100.2	
Weight		27.5Kg (±0.5Kg)	
Input	Video Signal	HDMI 1/HDMI 2 / DVI / RGB / Display Port	
	Control	LAN / IR / RS-232C	
Output	Video Signal	DVI	
	Control	RS-232C	



LCD Video Wall

OLMU-K Series : 4K(UHD) Input

This will bring you a new growth engine of video wall business providing differentiated 4K impact to your customers.

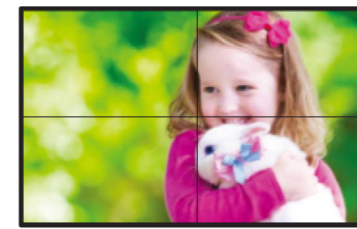


● Realize the 4K(UHD) Video Wall solution at low cost

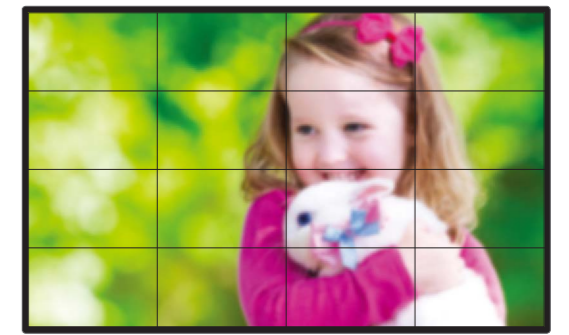
■ Conventional MLCD



FHD



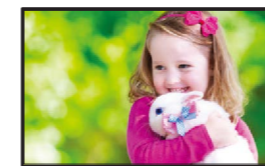
FHD



FHD

- The image quality of conventional LCD video wall products get worse as the number of screens increases because the resolution of contents is just FHD.

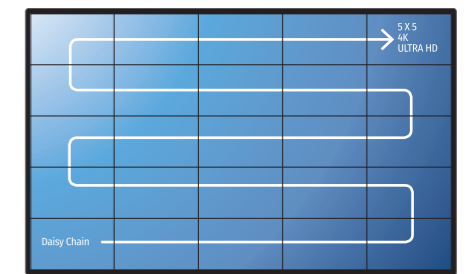
■ Orion 4K MLCD



UHD



UHD



5 X 5 4K ULTRA HD (4K Daisy Chain)

- We have been always imagining video wall allowing high resolution contents without any additional device at low cost.
- Now Orion's 4K MLCD satisfies strong demand of your customer for displaying 4K contents and you can propose advanced image quality to your customers as a leading system integrator of video wall industry.

LCD Video Wall

Orion 4K MLCD

- Displaying full screen with 4K contents without configuration limitation
- Up to 256 units : 3x3, 4x4, 5x5 larger etc



4K : 3840 X 2160 60hz



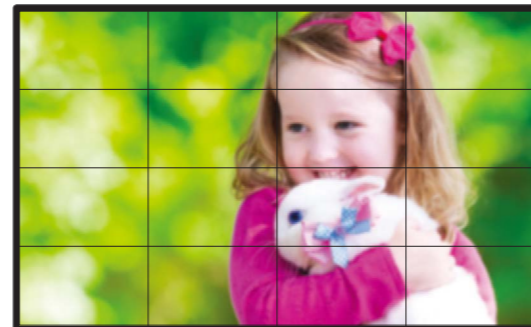
4K : 3840 X 2160 60hz

Conventional others

- Only FHD(1080P) is available
- Or 4K is limited to 2x2 configuration by MST(Multi Stream) function of PC



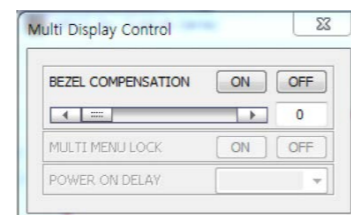
FHD: 1920 X 1080 60hz



FHD: 1920 X 1080 60hz

Key features and differentiated functions

- 1) Native 4K(UHD) Daisy Chaining through Display Port 1.2
- 2) Auto ID setting
It allows a user to simply set up the each ID of panel by software (MSCS) without giving ID manually by rotating dip switch of each unit.
- 3) Selectable color temperature:
New MSCS:
 - Select color temperature (Studio mode or Normal mode)
 - Providing customized color temperature according to customer need
- 4) Selectable Bezel compensation

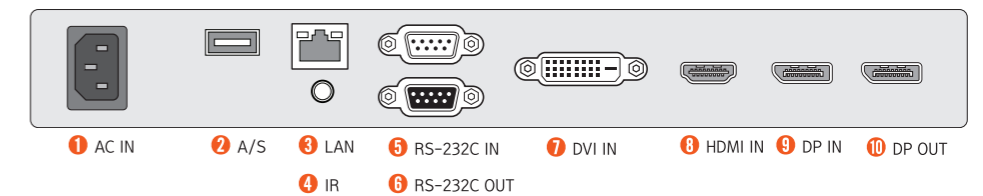


Conventional MSCS:
- Bezel compensation rate(Global offset) was fixed

New MSCS:
- Select from 0(no compensation) to 30(pixels)

Specification

Model Name		OLMU-K4650	OLMU-K5550
Seam Gap		3.5mm	
Brightness (Typical)		500cd	500cd
Panel Type		VA(Global Dimming)	IPS(Local Dimming)
Panel	Back Light Type	Direct LED	
	Active Display Area (H x V)	1018.0 x 572.7	1209.6 x 680.4
	Aspect Ratio	16 : 9	
	Resolution	1920(H) x 1080(V)	
	Pixel Pitch(H x V)	0.53 x 0.53	0.63 x 0.63
	Display Colors	16.7M(8Bit)	1.07B(10Bit)
	Contrast Ratio (Typ.)	3,500:1	1,400:1 500,000 : 1(Dynamic Contrast Ratio)
	Life Time(Back Light Unit)	50,000Hrs	60,000Hrs
	Operation hours per day	24hrs	
AC Input Voltage		AC 100V~240V (50/60hz)	
Power Consumption	Max	120W	200W
	Typical	115W	115W
	Stand-By	≤ 0.5W	
Surface Treatment		Haze 44%, Anti-glare Hard-Coating (3H)	Haze 10%, Anti-glare Hard-Coating (3H)
Mount		580*340	600*400(VESA)
Dimension (W x H x D mm)		1022 x 576.6 x 100.8	1213.4 x 684.2 x 100.4
Weight		23.5Kg (±0.5Kg)	32Kg (±0.5Kg)
Input	Video Signal	HDMI / DVI / Display Port	
	Control	LAN / IR / RS-232C /Service port	
Output	Video Signal	Display Port Out (Only for Display Port In)	
	Control	RS-232C	

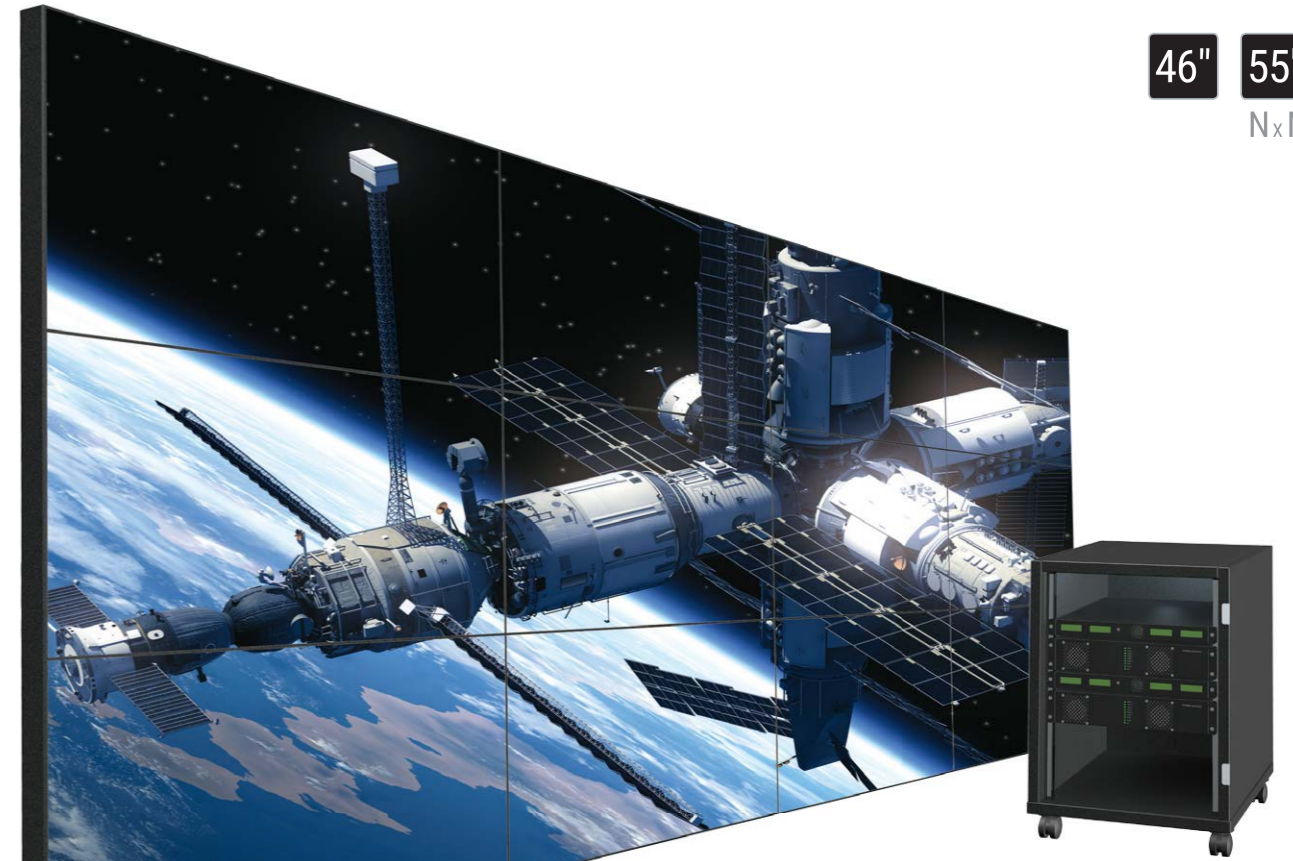


LCD Video Wall

Hybrid LCD Video Wall

Orion's unique off-board electronic design makes it possible that any system failure can be easily accessible, reducing down time and heat.
Redundant power supply means provide you continuous operation in the event of power failure.

46" 55"
N x N

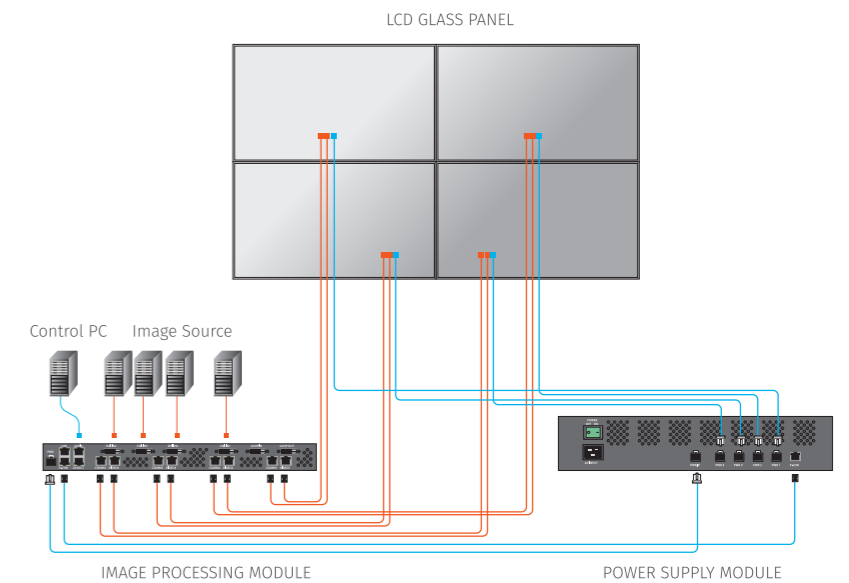


LCD Video Wall



Key Features

- Separated Power Supply and Image Processing Module from LCD panel
- Easy installation and convenient maintenance
- No Fan noise
- Reduce the heat load on the LCD up to 20%
- Long distance transmission up to 40m



Reference pictures



LCD Video Wall



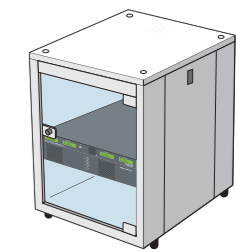
LCD Module



IMAGE PROCESSING MODULE



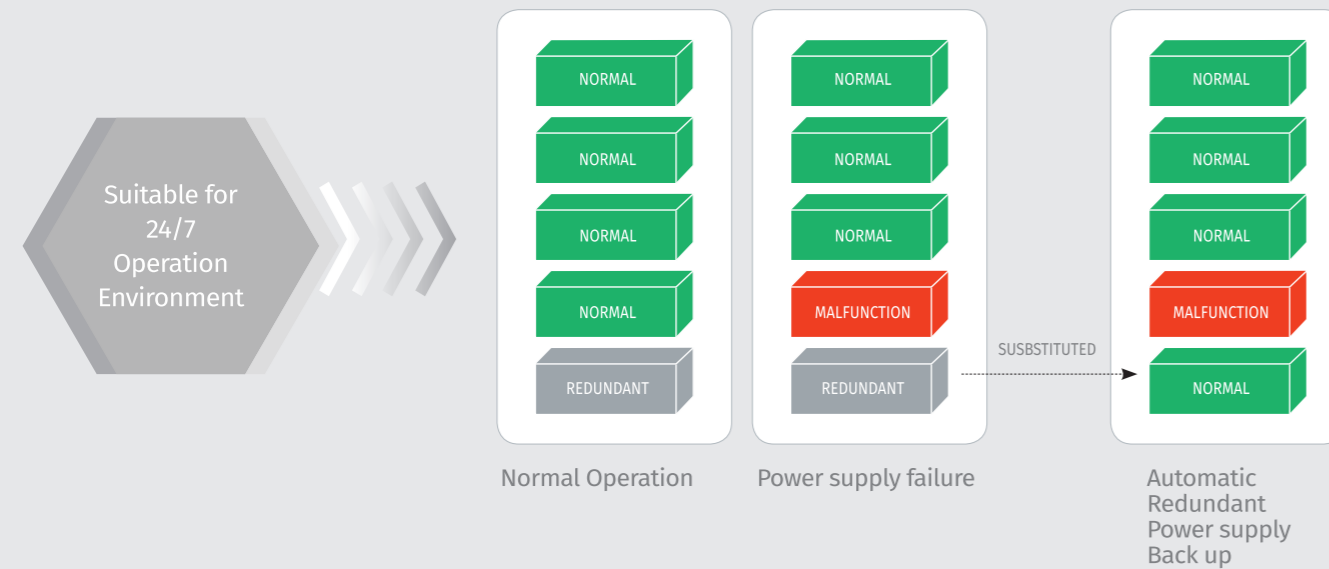
POWER SUPPLY MODULE



19" Rack

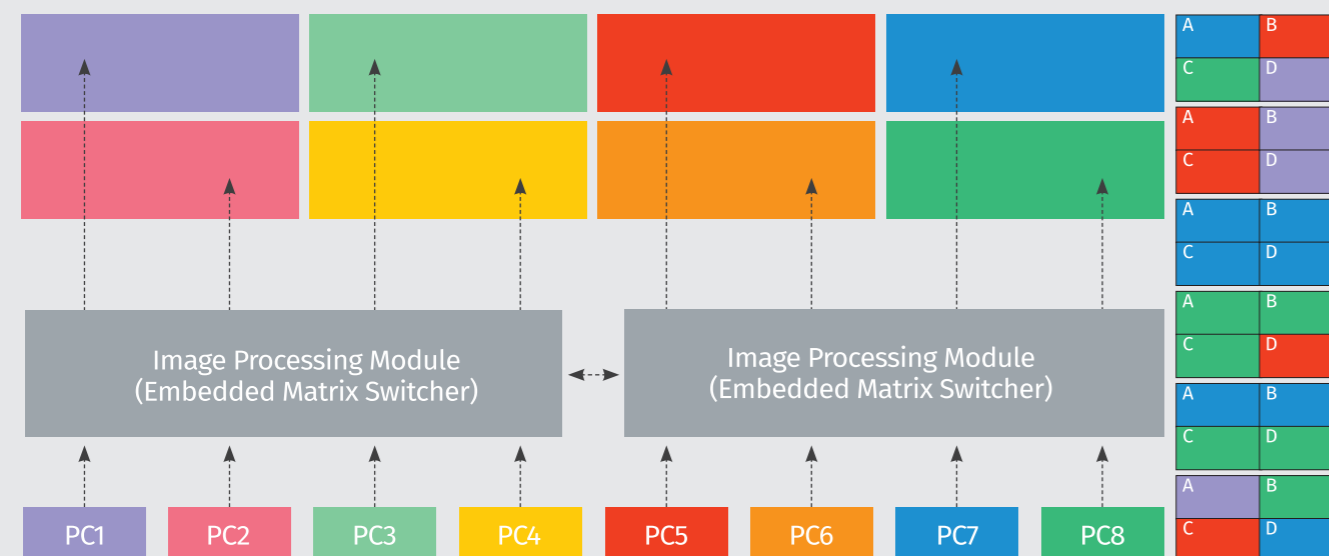
N+1 Redundant Power Supply

Orion Power supply module includes 1 redundant power supply, so if one of 4 power supplies in the module fails, redundant power supply will back it up automatically for uninterrupted operation.



Embedded N*N Matrix Switcher

Hybrid LCD Video Wall with the embedded N*N Matrix switcher.



Specification

Product Name		Hybrid Video System				
Model Name		OLWU-5520	OLWU-5550	OLWE-5550	OLWE-5570	
LCD Module With Receiver	Backlight Type	55" Direct LED				
	Resolution	1920(H) x 1080(V)				
	Brightness (Typical)	500cd	700cd	500cd	700cd	
	Seam Gap	3.5mm		1.8mm		
	Contrast Ratio	1,400:1 (Global Dimming) 500,000 : 1(Local Dimming)				
	Power Consumption(Typical)	195W	250W	195W	250W	
	Acoustic Noise	Fanless Operation				
	Receiver	Video Input	RJ45 (From Image Processor Module)			
		Control Input	RJ45 (From Image Processor Module)			
		Power Input	DC24V / 10.5A		DC24V / 13A	
Image Processor Module	Maximum Image Scaling	Up to 9 x 4 (36 Sets) (Connecting up to 9 Image Processor Modules)				
	Video Input	DVI 1 - 4 IN (With HDCP) LOOP IN(DVI-D)				
	Video Output	RJ45 1 - 4 OUT (To Receiver Module) LOOP OUT(DVI-D)				
	Control		RS-232 1 IN/1 OUT			
			Ethernet (RJ45) 1 IN			
			LCD Panel Control (RJ45) 4 OUT			
			Power Supply Control (RJ45) 1 OUT			
	Maximum Distance From LCD	40m (150m with Extender)				
	Power Input	DC 24V				
	Case	19" Rack 1U(optional)				
ETC	Status Display (LED, C-LCD), Rotary Switch					
Power Module (OLP-10000)	AC Input	AC 100 - 240V±10%, 50/60Hz				
	DC Output	DC24V / 5A 1 OUT (For Image Processor Module) DC24V/13A 4out(For receiver Module)				
	Control	RJ45 1EA (From Image Processor)		Power Module Control (RJ45) 1Input		
	Maximum Distance From LCD	40m				
	Status Display	LED				
	Case	19" Rack 2U(optional)				

LCD Video Wall

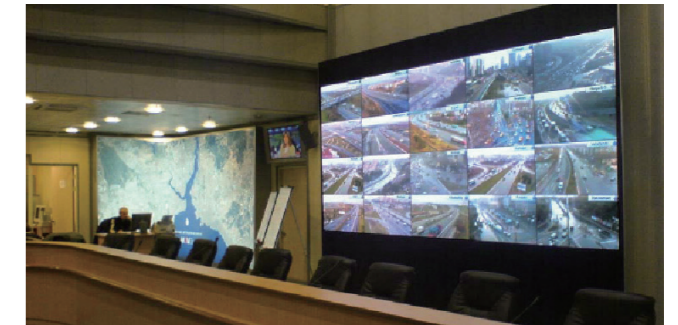
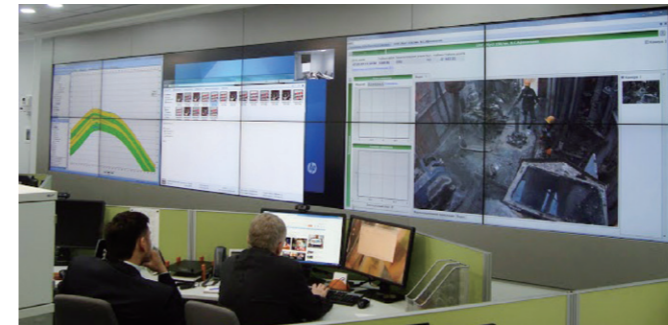
OLMU Series

Create an almost seamless image by minimizing image gap up to 3.5mm. Orion's accumulated and reliable video wall technology over 10 years are ideal for realizing stable video wall digital signage.

46" 55"

N x N

Ultra Narrow Bezel

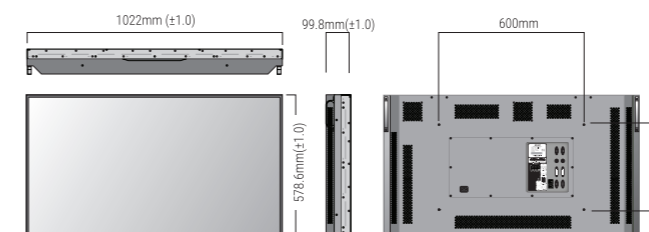


Specification

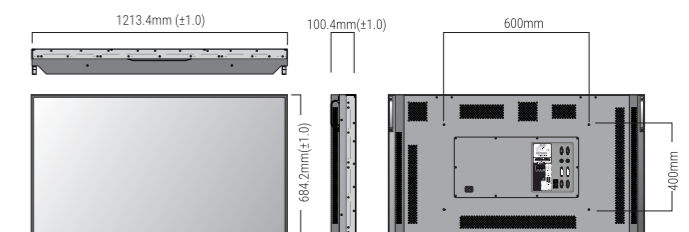
Product Name		UNB			
		VA		IPS	
Panel Type					
Model Name		OLMU-4620S	OLMU-4650S	OLMU-5520S	OLMU-5550S
Back Light Type		LED			
Active Display Area		1018.08 x 572.67 mm		1209.6 x 680.4 mm	
Ratio		16 : 9			
Resolution		1920(H) x 1080(V)			
Pixel Pitch(H x V)		0.53025 x 0.53025		0.63 x 0.63	
Display Colors		16.7M(8bit)		1.06 Billion(10Bit)	
Luminance of White(Typ.)		500 cd / m ²	700 cd/m ²	500 cd / m ²	700 cd / m ²
Contrast Ratio (Typ.)		3,500 : 1		1,400:1(Global Dimming), 500,000:1(Local Dimming)	
Lamp Life Time		Min. 50,000Hrs			
Bezel (R/L/U/D mm)		3.5 mm			
AC Input Voltage		100V~240V 50/60hz			
Power Consumption	Max	120W	170W	200W	270W
	Typical	115W	145W	115W	150W
	Stand-By	≤ 0.5 W			
Surface Treatment		Haze 44% / 3H		Haze 10%, Anti-glare Hard-Coating (3H)	Haze 44%, Anti-glare Hard-Coating (3H)
Mount		600 x 400(VESA)			
Dimension (W x H x D mm)		1022 x 578.6 x 99.8		1213.4 x 684.2 x 100.4	1213.5 x 684.3 x 99.8
Weight		23 ± 0.5 kg		32Kg (±0.5Kg)	
Input Video Signal		DVI X1, PC X 1, HDMI X2, DP X1			
Control		RS-232C, LAN, I/R, Key Pad			

External Dimension

OLMU-4620S/ 4650S



OLMU-5520S/ 5550S



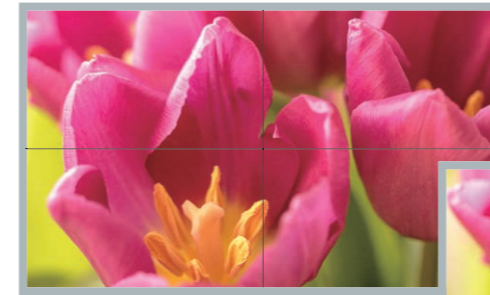
LCD Video Wall

PDP Video Wall

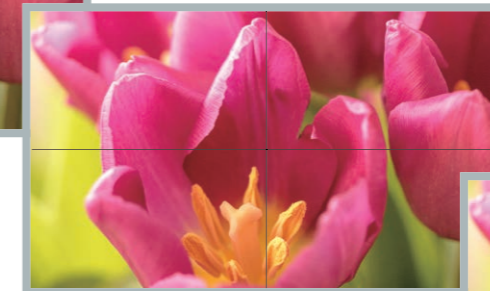
42"

N x N

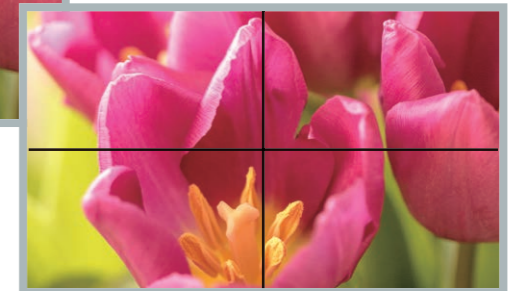
PDP Video Wall



OPM-4260 (1.9mm)



LCD ENB(1.9mm)



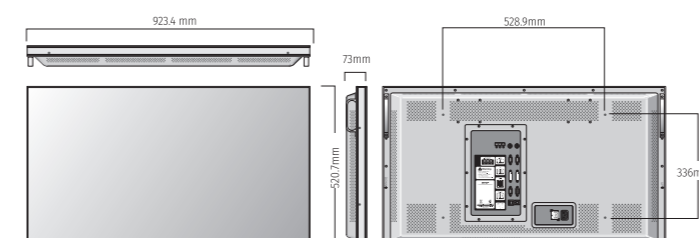
LCD UNB(3.5mm)

Specification

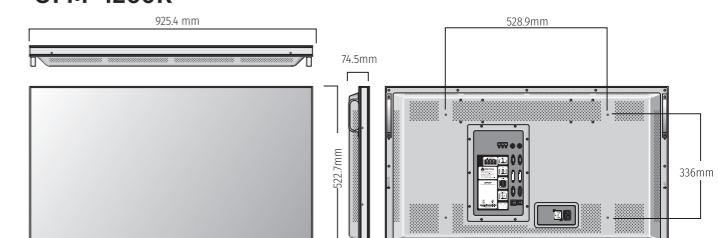
Model Name		OPM-4260	OPM-4260R
Power Supply		100 ~ 240V AC, 50/60 Hz	
Power Consumption	Average(Typical)	210W(IEC62087 Ed2. Measurement Method - On Mode)	
	Max	330W	
Plasma Display Panel		106cm (42), 16:9 Aspect Ratio	
		Contrast Ratio	
		30,000:1 (Dark Room)	
		Brightness (Peak)	
		1,700 cd/m ² (Without Film)	
Front Filter		AG(Anti-Glare)	
Number of Pixels		853(H) x 480(V)	
Seam Gap		1.9mm	3.8mm
Environmental Condition	Temperature	0°C ~ 35°C	
	Humidity	20% ~ 70%	
Connectivity	Input	DVI(DVI-D), PC(D-Sub 15Pin), Video(BNC), Ethernet(RJ45), RS-232C(D-Sub 9Pin) SVC(RJ11, Ony for Service)	
	Output	DVI(DVI-D), PC(D-Sub 15Pin), Video(BNC), RS-232C(D-Sub 9Pin)	
	Available Resolution	VGA, SVGA, XGA, SXGA, UXGA, WXGA, WVGA / 480p, 576p, 720p, 1080i, 1080p	
	Frequency	Horizontal: 15.5KHz ~ 75KHz / Vertical: 50Hz, 60Hz	

External Dimension

OPM-4260



OPM-4260R



PDP Video Wall

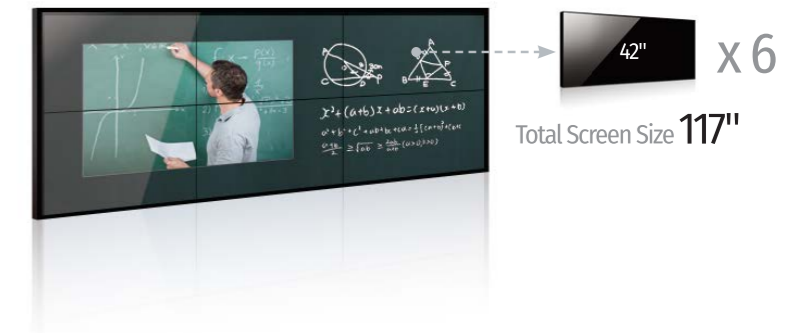
117" Interactive White board

Substituting world largest 117" E-board with suitable aspect ratio(24:9) for conventional classroom blackboard.



● Main Characteristics of Orion e-Board

- Excellent Response Time (125 / Second)
- Both Hand Touch & IR Pen Touch Supportable
- Capacitor & Resistive Touch Pad
- Easy Touch Calibration
- No Additional Software Driver Needed
- Multi Touch Support (2 Points : Windows 7 Compatible)



● Special Features

Screen Size	117"(2772x1042mm)
Touch	Camera & IR Touch (up to 2 points)
Built-in PC	Optional (Industrial PC/WIN7)
Multi Signal Source Processing	DVI, D-Sub, Video (BNC), Ethernet (RJ45)
E-Board Tools	Multi Language Support (English, Chinese, French, Deutsch, Arabic)
Applications	School Room, Corporate Meeting Room, Conference Room

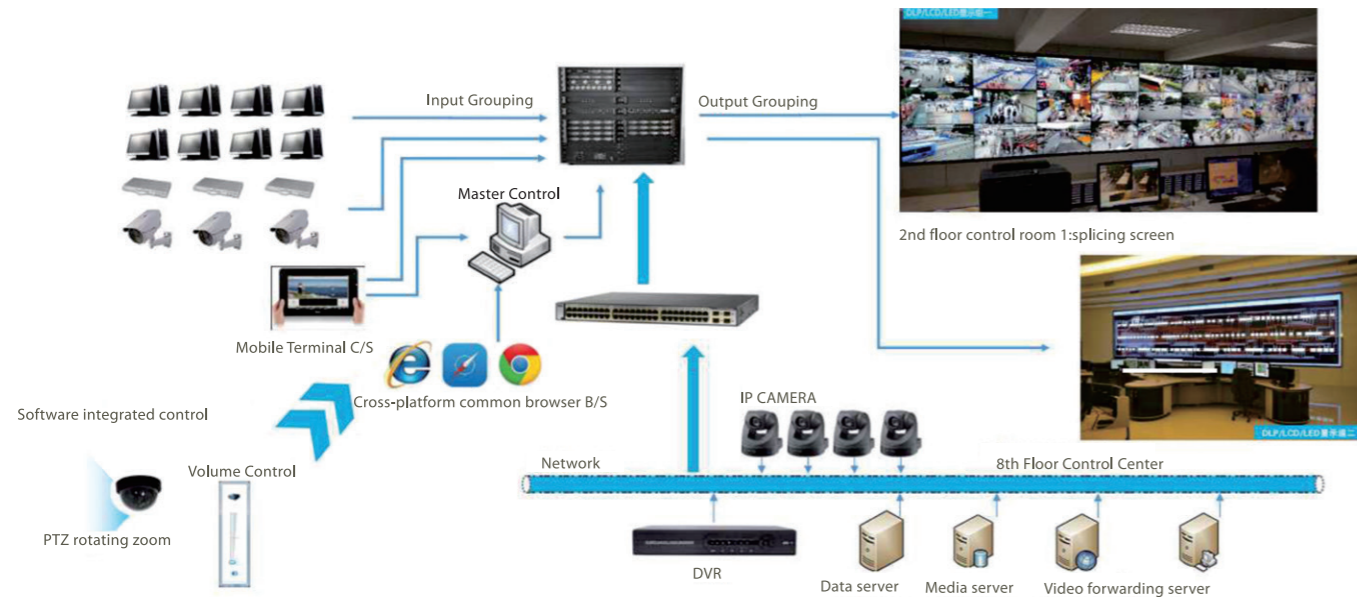
● Specification Comparison Table

Description		OPE-11701
Panel Technology		Multi PDP Panel Technology
Size		117"
Panel	Aspect Ratio	24 : 9
	Active Area	2772 X 1042
	SEAM Size	1.9mm
Touch	Resolution	32767 X 32767
	Response Time	7ms to 13ms (typically 9ms)
	Working Environment	-30°C to 70°C
	IR Wave	850nm
	Power Consumption	Sensor Module : Typically 233mA at 5V IR Bar : 200mA per meter at 5V at Highest intensity
	PC Interface	USB 2.0 (High speed), Plug & Play
	OS	MS Windows, Mac OS X, Linux
	PC	Optional (External PC)
Input /Output		DVI, D-Sub, Video (BNC), Ethernet (RJ45), RS232C

ORVW (Orion video wall controller) Series

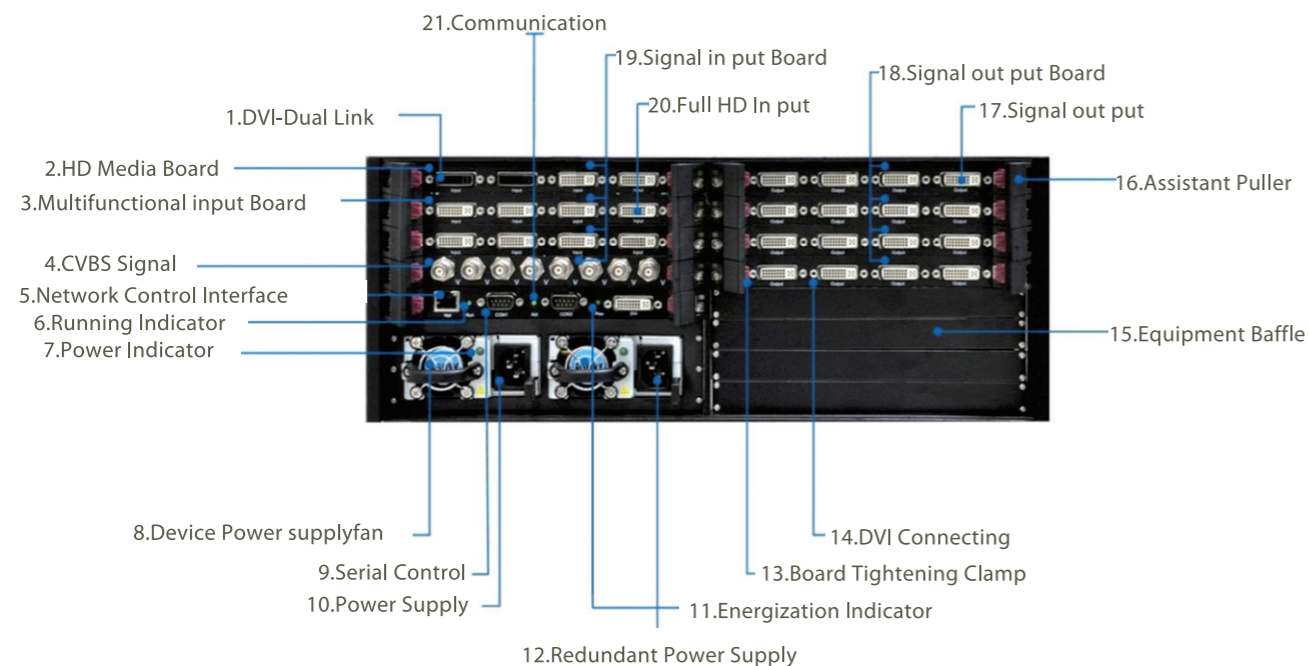
Orion's brand new video wall controller, ORVW series is professional image processing product based on 6.25G processing chip performing fast speed, professional video wall control, IP-Video decoding and various I/O interface supporting 4K resolution with long term reliability.

DIAGRAM



- Input : VGA/DVI/HDMI/SDI/CVBS/Duallink-DVI/IP-Video/DP/HDBaseT/Fiber
- Output : DVI / HDMI / VGA / SDI / 4K HDMI / HDBaseT / Fiber
- Control : serial, network , third-party control system, ipad etc.

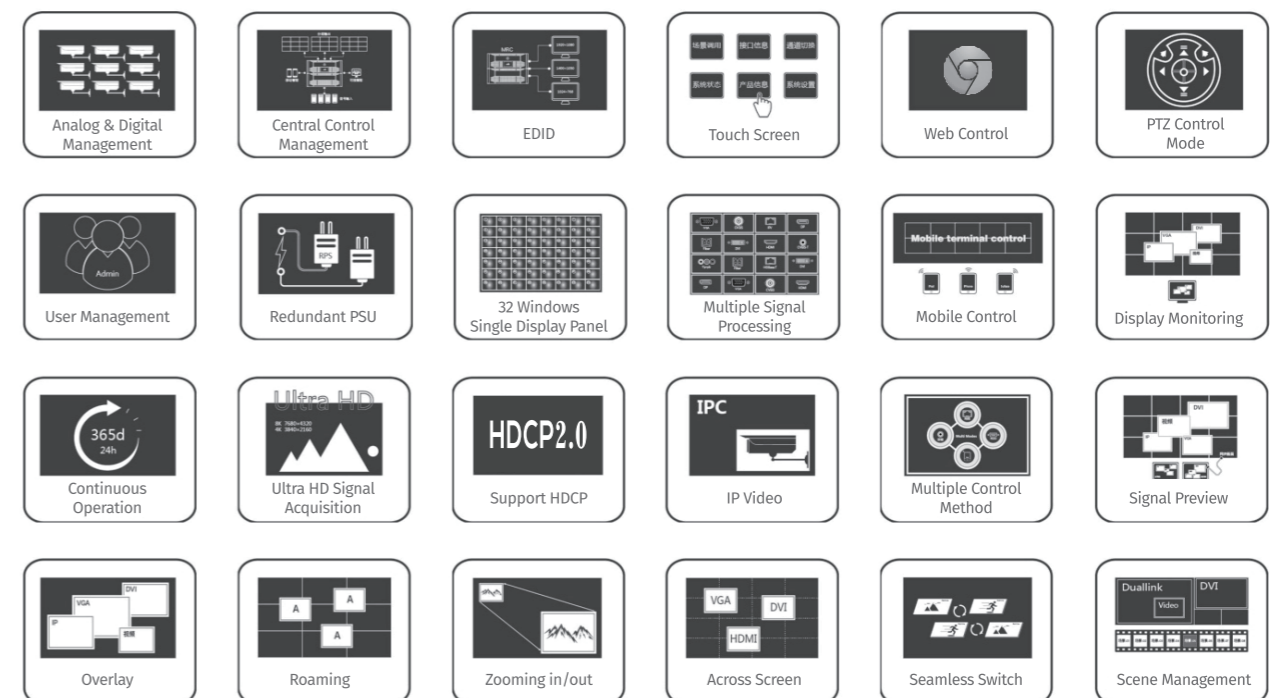
PRODUCT STRUCTURE



FEATURES

- Pure-hardware FPGA Array, modular design, 6.25G/s base exchange processing speed;
- Support hot-swappable for I/O modules, control modules, redundant power supply. Easy to upgrade and maintenance;
- Support VGA, DVI, HDMI,CVBS, DP, SDI, HDBaseT, IP-Video,Fiber input sources and VGA,DVI,HDMI,SDI,CVBS,HDBaseT,Fiberoutput;
- Support 4K DP/HDMI/Dual-link DVI input and 4K HDMI output;
- Support VGA/DVI/HDMI sources self-adaption on single input card;
- Support HDCP2.0 for HDMI input and output;
- Support opening at least 8 windows on each two screens;
- Support scene management, up to setup and display 255 scenes;
- B/S and C/S dual mode visualization control platform, support roaming, overlay, zoom in/out, multi-windowing, switch, overlay, picture-in-picture, signal clip and a variety of display modes such as split screen, full screen and combination screen;
- Advanced image decoding technology, compatible with a number of manufacturers' IPC signal and seamless access with variety resolutions such as 1080P, 720P, etc.

RELEVANT FUNCTION INDICATION



PCAP Touch Monitor (Projected Capacitive)

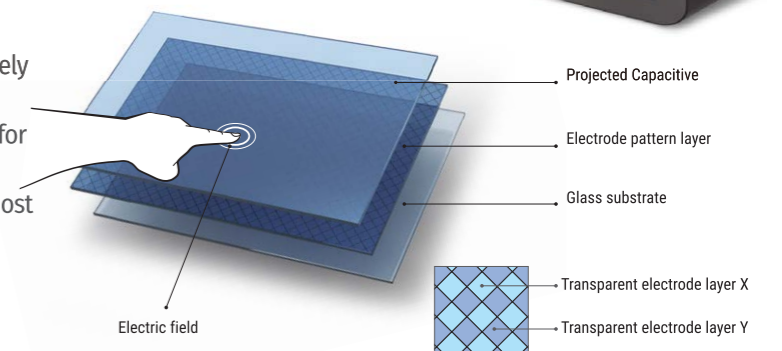
32" 42" 46" 55" 55" 65" 86"
4K 4K 4K

PCAP Touch Monitor



Structure & principle of Projected Capacitive Touch

- Our premium projective capacitive touch panel offers outstanding accuracy, optics and durability that extremely exceeding IR touch monitor.
- The super slim border design allows better integration for new generation flat panel displays.
- The antiglare treatment makes the panel suitable for most indoor or semi outdoor applications.



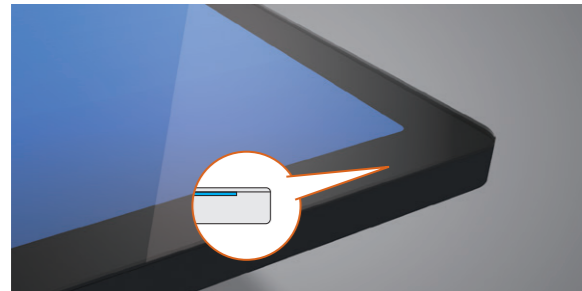
Advantage of projected Capacitive

- Printed border (Black or Dark-Gray) for no bezel design look
- Most sensitive and smooth responsive touch
- Multi-Touch like smartphones
- Finer touch accuracy clearer imagery
- Scratch-Resistant
- Higher Transparency
- Higher Accuracy
- Vandal-resistant glass
- Palm Rejection

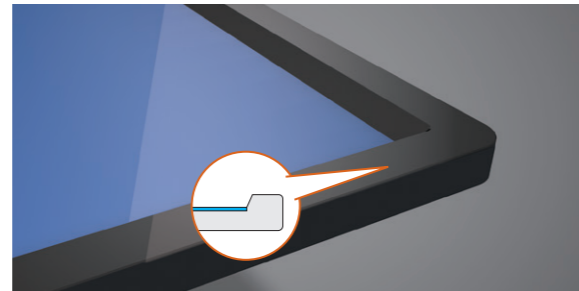
PCAP Touch Monitor (Projected Capacitive)

Advantage of Orion's PCAP monitor

- Stylish front glass (Bezel-less) PCAP



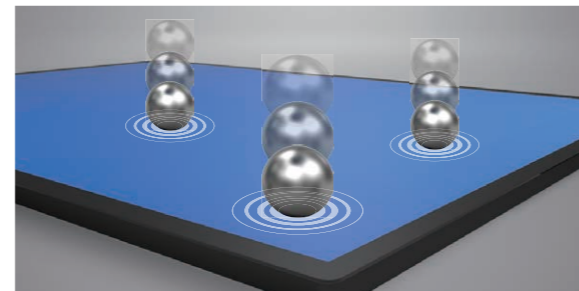
- Conventional I/R touch



- 12points / option 50 points

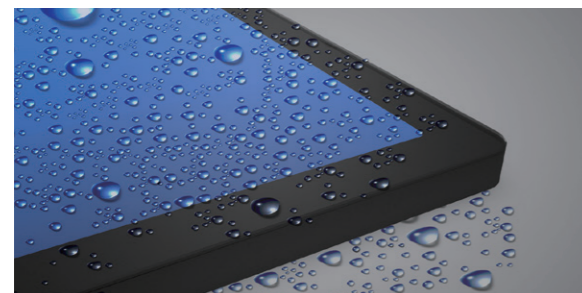


- 5mm tempered Glass (Anti-Vandalism)

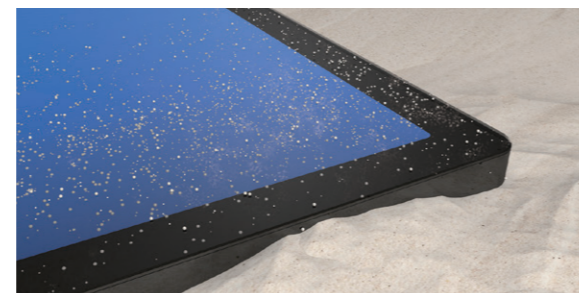


Key Features

- Water proof (IPX1)



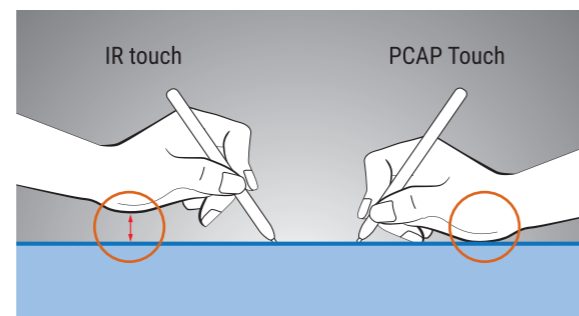
- Dust proof (IP54)



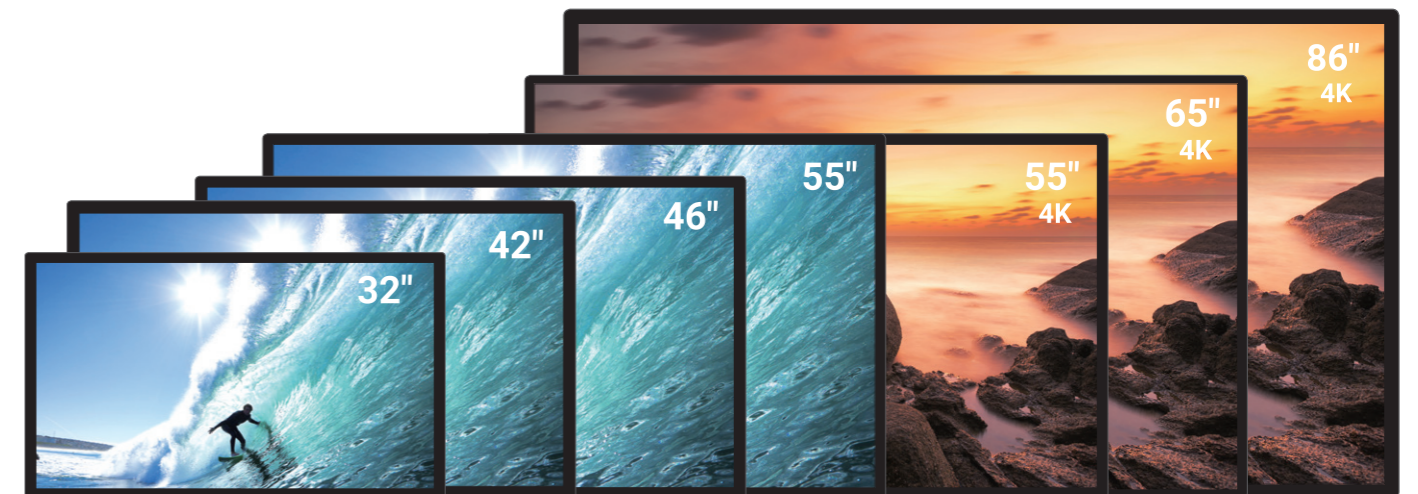
- LCD Panel is detachable from the tempered glass
Touch sensor, Maintenance cost-effective and easy repair
(Easy maintenance & Cost saving)



- Palm rejection & Touch pen (4 mm)



- Wall mountable & Side mountable/ Optional coating available (Anti-Glare)/ World Wide Certificate & RoHS/ Outstanding touch performance/Long-term stable operation under high temperature (24 / 7 / 365)



■ 65"~ 86" 50points standard ■ 32"~ 55" 12points standard

Touch Monitor Specification

Display size	86" 4K	65" 4K	55" 4K	55"	46"	42"	32"	
Display Colors	10 bits			8 bits				
Resolution	3840 x 2160			1920 x 1080				
Contrast Ratio	1,200:1(Typ)	1,000:1(Typ)	1,100:1(Typ)	4,000:1 (Typ)		1,000:1(Typ)	3,000:1(Typ)	
View Angle (CR>10)	178°(H) / 178°(V)							
Vertical Frequency	30Hz							
Set Dimension(mm)	2064.5 x 1050.5 x 104.1	1530.5 x 905.5 x 67.5	1294.6 x 765.5 x 67.4	1294.5 x 765.5 x 67.4	1100.1 x 654.7 x 89	975.3 x 575 x 88	781.5 x 476.1 x 69.1	
Active area	1894 x 1066	1428.5 x 803.5	123.4 x 706.8	1209.6 x 680.4	1018 x 572.6	927.9 x 522	700.4 x 394.85	
Luminance (Panel)	410cd/m ²	450cd/m ²	500cd/m ²	500cd/m ²	500cd/m ²	400cd/m ²	350cd/m ²	
Power Consumption	Typ.	265W	230W	80W	110W	99W	66W	46W
	Stand-By	≤0.5W						
Weights	130kg	60kg	45kg	47kg	34kg	24kg	17.3kg	
Surface Treatment	AGAR							
USB Connector	Type A							
RS232C	Yes							
PC (D-sub 15pin)	Yes							
DVI-D	Yes							
HDMI	HDMI 1,2,3			Yes				
Display Port	Yes			No				
Display Out	Yes							
Touch Point	50 (Palm rejection)			12 (Palm rejection)				
Support OS	Window, Linux, Android							

UHD LCD display

Orion's 4K professional LCD display

Orion expands leadership in the ultra-high definition category including touch/non touch offering the largest touch surface area in 86"/98" size.

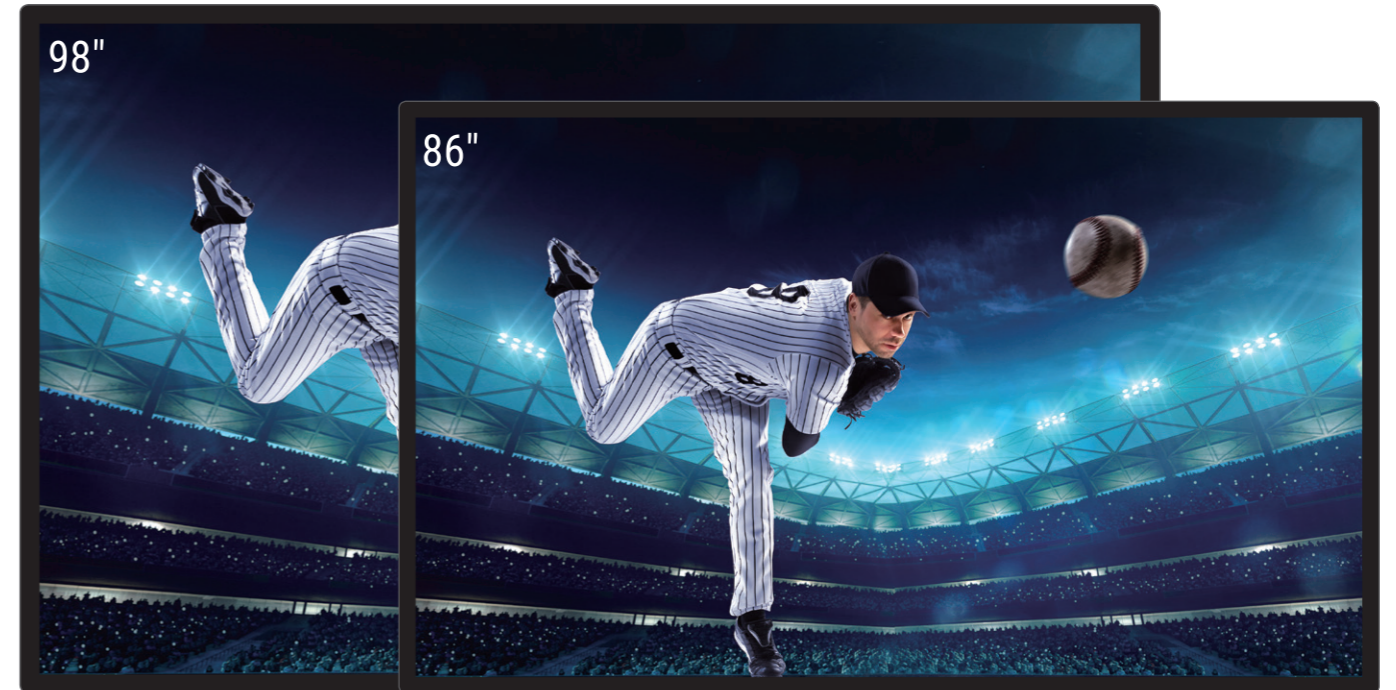
UHD LCD display



OLSK-98"series
2219.4 X 1274.4



OLS/OLSK-86" series
1917 X 1103



● OLSK-K Series

MODEL NAME		OLSK-K8640NL	OLSK-K8640RL(IR Touch)	OLSK-K9850NL	OLSK-K9850RL(IR Touch)
LCD PANEL	ACTIVE DISPLAY AREA (H x V)	1922.2 x 1093.2mm		2158.8 x 1214.3mm	
	NUMBER of PIXEL (H x V)	3840 x 2160 (RGB STRIPE)			
	LUMINANCE of WHITE (Typ.)	410cd/m2		500cd/m2	
	CONTRAST RATIO (Typ.)	1,200 : 1		1,300 : 1	
	DISPLAY COLORS	1.07Billion (10bit)			
	SURFACE TREATMENT	ANTI-GLARE(HAZE 3%), 2H Hard coating		ANTI-Reflection(Reflectance 2%), 2H Hard coating	
	LIFE TIME (Typ.)	30,000Hrs			
INPUT TERMINAL	VIDEO	INPUT : HDMI1, 2, 3, 4 DP1			
	CONTROL	OUTPUT : DP1 (Only for DP INPUT) RS-232C IN/OUT, LAN, EXT-IR, KEYPAD			
INPUT SIGNAL	SUPPORT RESOLUTION	HDMI1, DP1 : up to 3840x2160@60Hz(HDMI2.0 DP1.2) HDMI2, 3, 4 : up to 3840x2160@30Hz(HDMI1.4)			
	HDCP	1.4			
POWER SUPPLY		AC 100V ~ 240V±10% (50/60Hz)			
POWER CONSUMPTION	Stand-By(W)	≤0.5 W			
	Typ(W)	275 W		510W	
	Maximum (W)	310W	310W	540W	
DIMENSION (W x H x D)		1931.6 x 1102.6x 97.7mm	1966 x 1370x 117.6mm	2219.4 x 1274.4x 97.5mm	2249.4 x 1304.4x 119.3mm
VESA MOUNTING (H x V)		600 x 400mm		800 x 400mm	
Speaker(W)		Typ 8W x 2		Typ 10W x 2	
WEIGHT (Kg)		63Kg	88Kg	95Kg	145Kg
TOUCH SCREEN		NONE	INFRARED TOUCH 6 POINTS	NONE	INFRARED TOUCH 6 POINTS