

ORION

DISPLAY SOLUTIONS



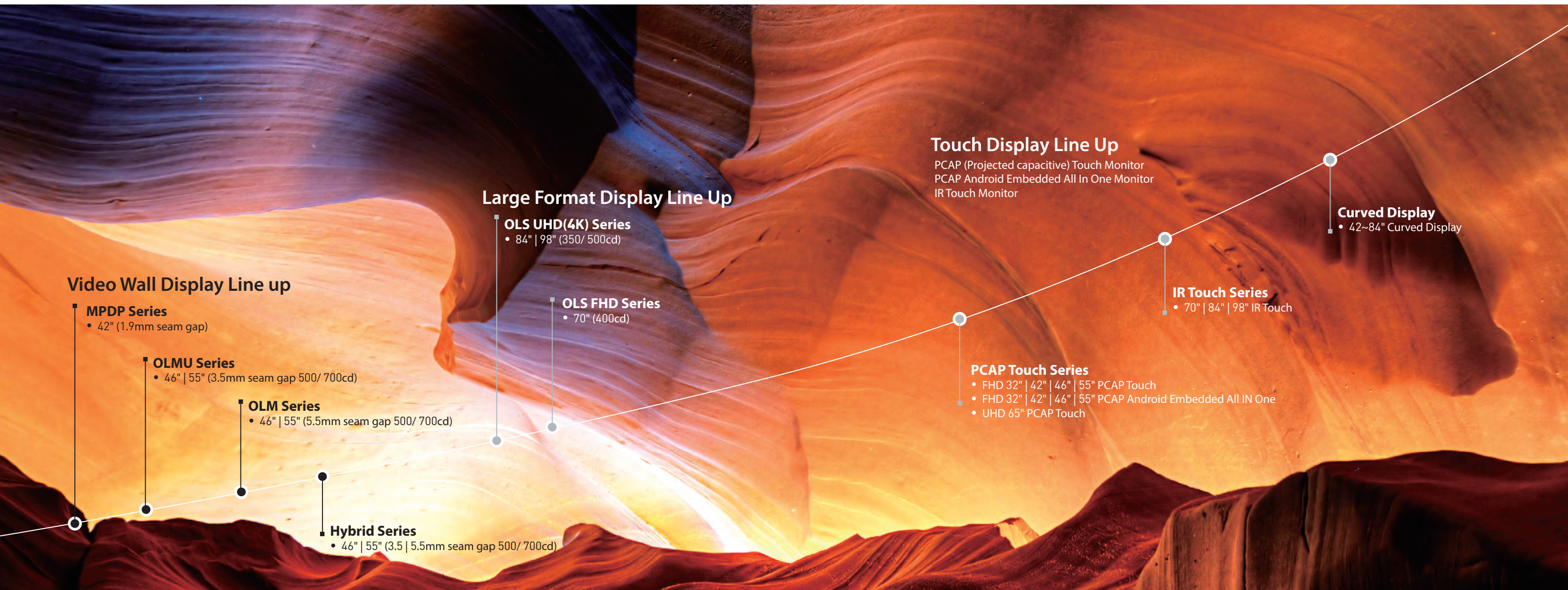
www.oriondisplay.net

Orion Co., Ltd.

Factory : 217, 1Gongdan-ro, Gumi-si, Gyeongsangbuk-do, Korea
Seoul Office : 4F, Ilshin Bldg., 11, Eunhaeng-ro, Yeongdeungpo-gu, Seoul, Korea
Tel +82-2-6678-8541 E-mail contact@oriondisplay.net



ORION Public Display Line Up



42" 46" 55"

Video Wall Display



46" 55"

Hybrid Video Wall Display



70" FHD 84" UHD 98" UHD

Large Format Display



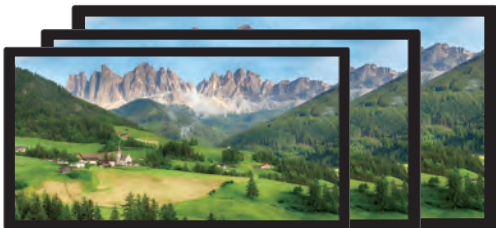
32" Touch 42" Touch 46" Touch 55" Touch 65" Touch

PCAP Touch Series



70" 84" 98"

IR Touch Series



42" ~ 84"

Touch Curved Display



PDP Video Wall

You can be a exclusive contractor who can provide the world most narrow seam gap(1.9mm) flat panel video walls to your customer.

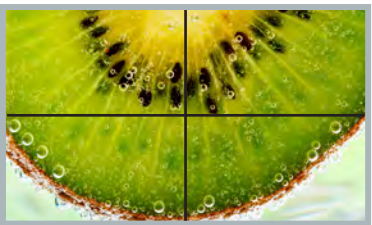


42"

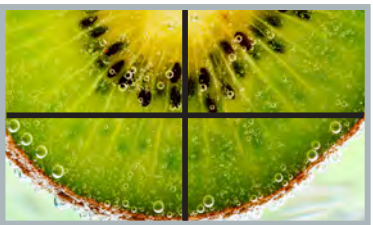
N×N



OPM-4260 (1.9mm)



LCD UNB (3.5mm)



LCD SNB (5.5mm)

RS-232C & ETHERNET CONTROL

- Power On/Off
- Input Select : Video, PC, DVI
- Picture Adjustment: Contrast, Brightness, Sharpness
- Auto Tracking
- White Balance
- On/Off Timer
- Slideshow
- Design Select: Last Design / New Design
- Video-wall Configuration / X*Y Matrix
- Auto Calibration

MSCS (Multi Screen Control System)

- User friendly control program supplied with the monitor
- Controllable up to 225 sets (Limited to 15 units per axis)

INPUT & OUTPUT TERMINAL

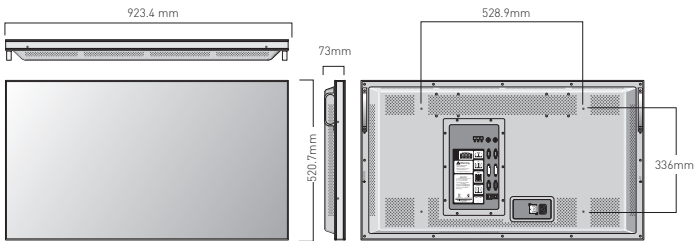
- **ID Switch** Set ID Switch
- **Video** Composite Signal
- **PC** Computer RGB Analog Signal D-Sub 15pin
- **DVI-D** TMDS Signal
- **RS-232C** MPDP Control
- **Service Port** Only for service
- **Ethernet** Networking
- **AC Input** AC 100V ~ 240V, 50/60Hz

Specification

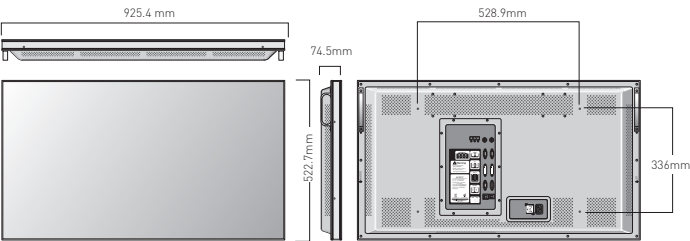
Model Name		OPM-4260	OPM-4260R
Power Supply		100 ~ 240V AC, 50/60 Hz	
Power Consumption	Average(Typical)	210W(IEC62087 Ed2. Measurement Method - On Mode)	
	Max	330W	
Plasma Display Panel		106cm (42), 16:9 Aspect Ratio	
	Contrast Ratio	30,000:1 (Dark Room)	
	Brightness (Peak)	1,700 cd/m ² (Without Film)	
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, Only 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



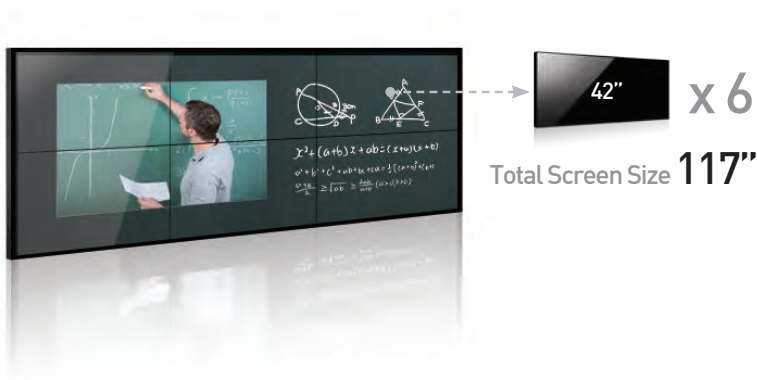
117" Interactive White board

Substituting world largest 117" E-board with suitable aspect ratio(2.7:1) for conventional classroom blackboard.



Main Characteristics of Orion e-Board

- Excellent Response Time (125 / Second)
- Hand/Baton Touch Supportable
- Both Hand Touch & IR Pen Touch Supportable
- Shown Better System Reliability than Capacitor & Resistive Touch Pad
- Easy Touch Calibration
- No Additional Software Driver Needed
- Multi Touch Support (2 Points : Windows 7 Compatible)
- Support for Value-Added Function through Gestures



Special Features

Screen Size	117"(2772x1042mm), 126"(2772x1563mm)
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	OPE-12601
Panel Technology		Multi PDP Panel Technology	
Size		117"	126"
Panel	Aspect Ratio	24 : 9	16 : 9
	Active Area	2772 X 1042	2772 X 1563
	SEAM Size	1.9mm	1.9mm
Touch	Resolution	32767 X 32767	
	Response Time	7ms to 13ms (typically 9ms)	
	Working Environment	-30℃ to 70℃	
	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	

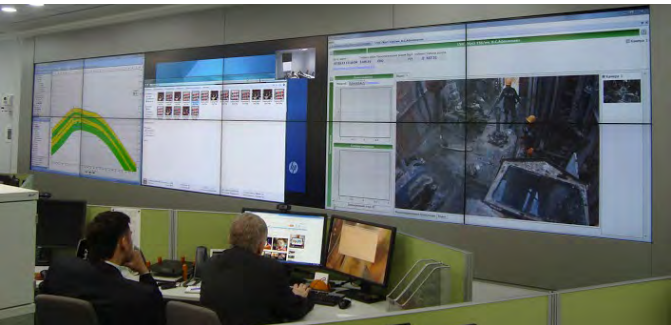
LCD Video Wall

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

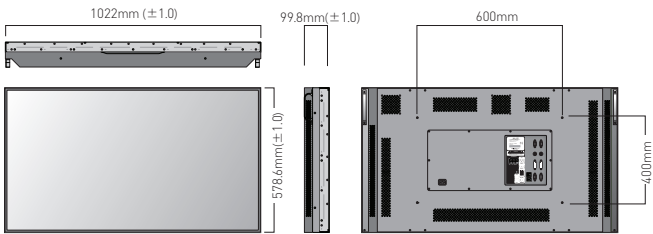


Specification

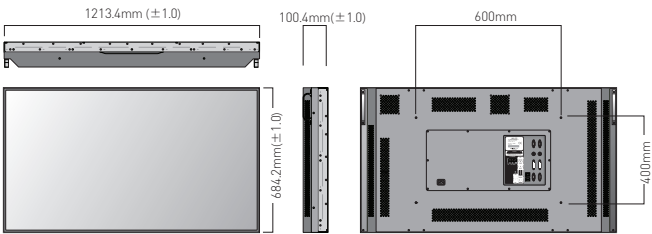
Product Name		UNB			
Panel Type		VA		IPS	
Model Name		OLMU-4620S	OLMU-4650S	OLMU-5520S	OLMU-5550S
Back Light Type		LED			
Active Display Area		1018.08 x 572.67 mm		1209.6 x 680.4 mm	
Ratio		16 : 9			
Resolution		1920(H) x 1080(V)			
Pixel Pitch(H x V)		0.53025 x 0.53025		0.63 x 0.63	
Display Colors		16.7M(8bit)		1.06 Billion(10Bit)	
Luminance of White(Typ.)		500 cd / m2	700 cd/m²	500 cd / m2	700 cd / m2
Contrast Ratio (Typ.)		3,500 : 1		1,400 : 1	
Lamp Life Time		Min. 50,000Hrs		Min. 60,000Hrs	
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



Super Narrow Bezel

Video Wall solution for the most demanding environment with reasonable price

46" 55"
N x N

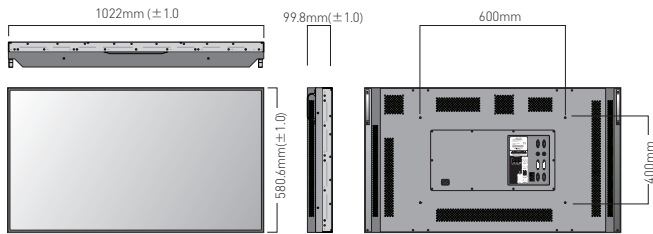


Specification

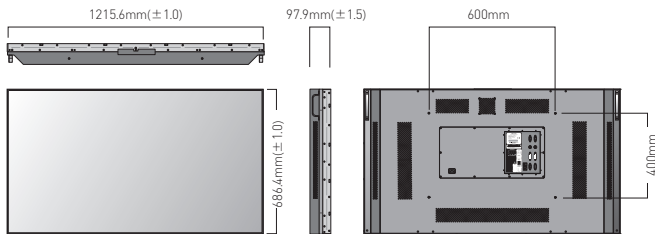
Product Name		SNB			
Panel Type		VA		IPS	
Model Name		OLM-4620	OLM-4651	OLM-5520	OLM-5550
Back Light Type		LED			
Active Display Area		1018.08 x 572.67 mm		1209.6 x 680.4 mm	
Ratio		16 : 9			
Resolution		1920(H) x 1080(V)			
Pixel Pitch(H x V)		0.53025x0.53025		0.63x0.63	
Display Colors		16.7M(8bit)		1.06 Billion	16.7M(8bit)
Luminance of White(Typ.)		500 cd / m2	700 cd / m2	500 cd / m2	700 cd / m2
Contrast Ratio (Typ.)		3,500 : 1		1400 : 1	3,500 : 1
Lamp Life Time		Min. 50,000Hrs			
Bezel (R/L/U/D mm)		5.7mm	5.7mm	5.7mm	5.5mm
AC Input Voltage		AC100V ~ 240V±10% (50/60Hz)			
Power Consumption	Max	120W	150W	187W	235W
	Typical	115W	145W	110W	205W
	Stand-By	≤ 3.0W	≤ 3.0W	≤ 4.5'W	≤ 3.0W
Dimension		1024x578.6x117.3	1023.98x578.6x98.8	1215.6x686.4x97.9	1216.5x687.9x98.7
Weight		24Kg (±0.5Kg)	25Kg (±0.5Kg)	30Kg (±0.5Kg)	31Kg (±0.5Kg)
Input Video Signal		DVI X1, PC X 1, Video X1			
Control		RS-232C, LAN			

External Dimension

OLM-4620 / 4651



OLM-5520 / 5550

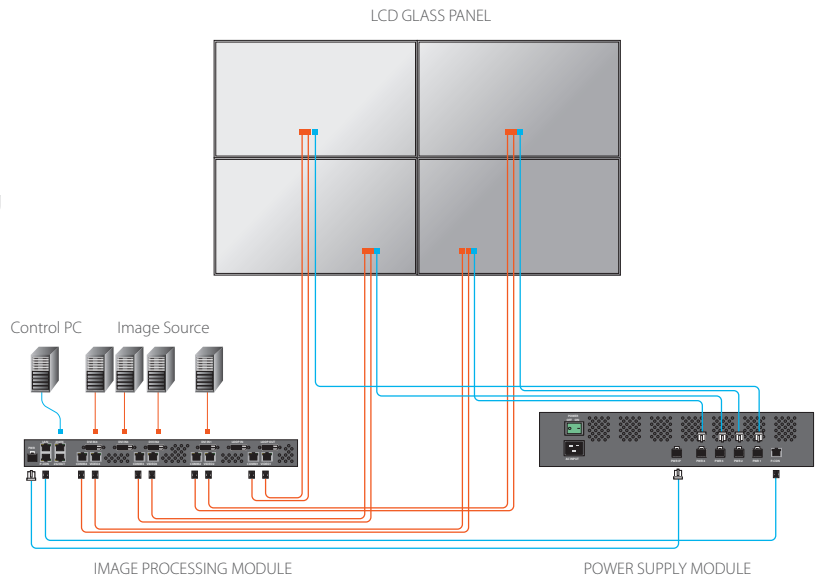


Hybrid LCD Video Wall

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.



- 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

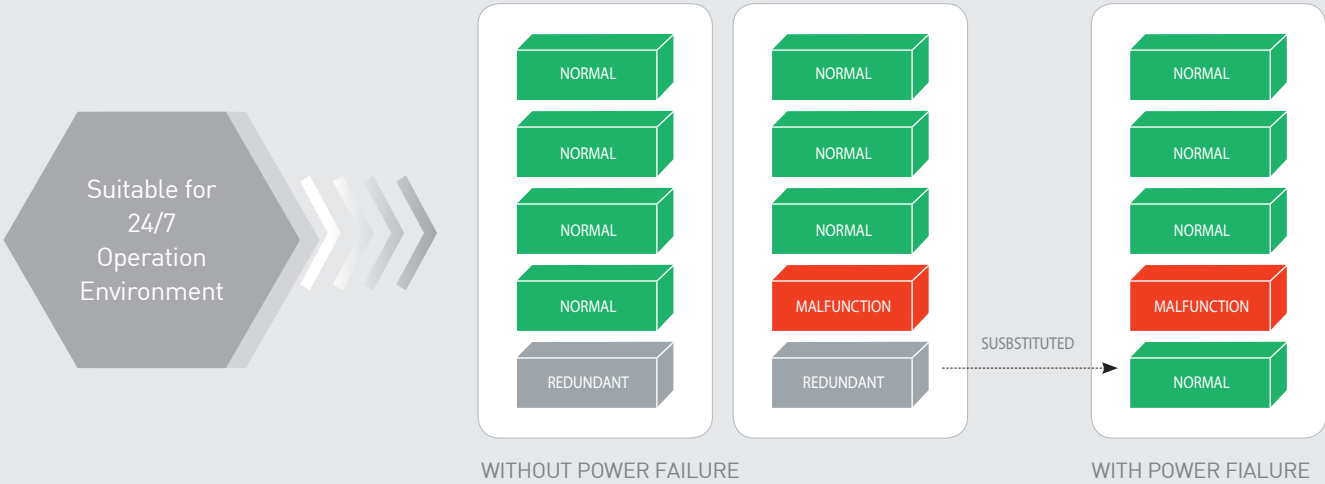


Reference pictures



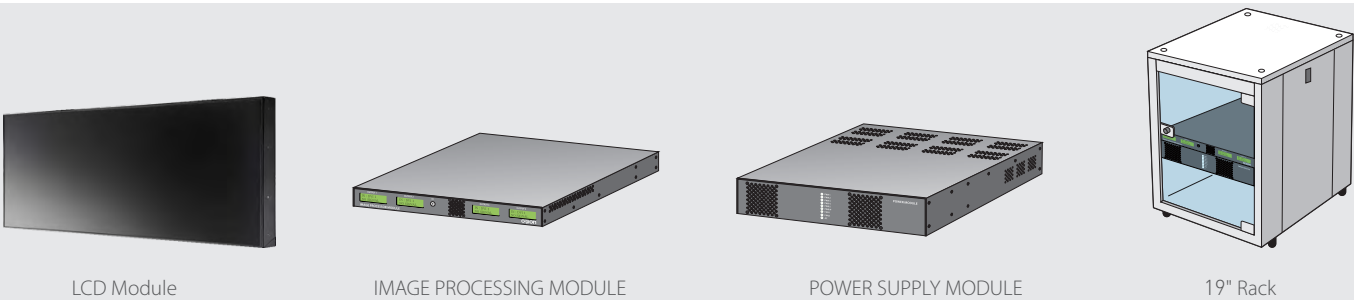
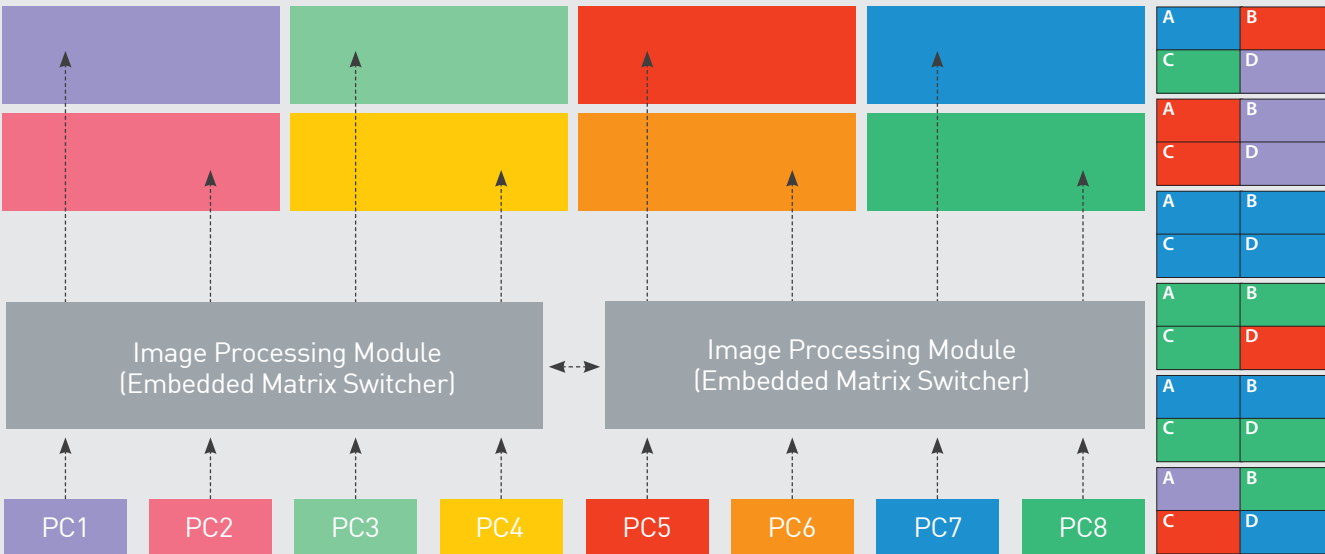
● N+1 Redundant Power Supply

Our Redundant Power Supply ensures uninterrupted operation in the event of power supply failure. Without failure, Redundant Power Supply is not working and with failure, Redundant Power Supply is automatically substituted for faulty power supply.



● Embedded N*N Matrix Switcher

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



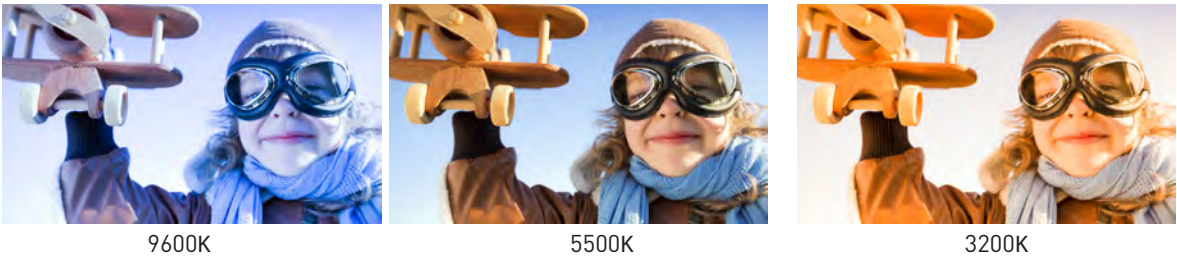
● Specification

Product Name			Hybrid Video System				
Model Name			OLW-4651	OLW-5520	OLW-5550	OLWU-5520	OLWU-5550
LCD Module With Receiver	Backlight Type		46" LED LCD	55" LED LCD			
	Resolution		1920 x 1080				
	Brightness		700cd/m²	500 cd/m²	700cd/m²	500 cd/m²	700cd/m²
	Contrast Ratio		3,500:1	1,400 : 1	3,500:1	1,400 : 1	3,500:1
	Power Consumption		150W	200W	250W	200W	250W
	Acoustic Noise		Fanless Operation				
	Receiver	Video Input	RJ45 (From Image Processor Module)				
		Control Input	RJ45 (From Image Processor)				
		Power Input	DC24V / 13A	DC24V / 10.5A	DC24V / 13A	DC24V / 10.5A	DC24V / 13A
Image Processor Module	Maximun 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 / 5A				
	Case		19" Rack 1U				
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 / 10.5A 4 OUT (For Reveiver Module)				
	Control		Power Module Control (RJ45) 1Input	RJ45 1EA (From Image Processor)	Power Module Control (RJ45) 1Input	RJ45 1EA (From Image Processor)	Power Module Control (RJ45) 1Input
	Maximum Distance From LCD		40m				
	Status Display		LED				
	Case		19" Rack 2U				

Orion's Video Wall special Features and performance

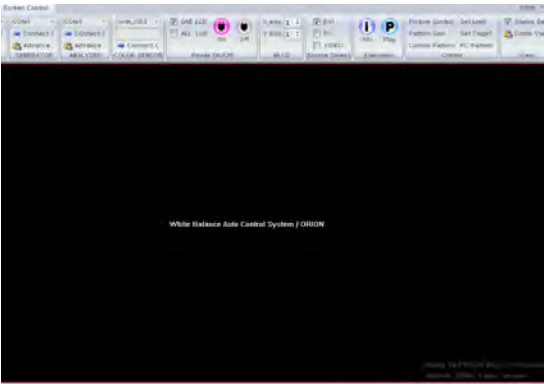
● Studio mode color temperature

- Factory-tuned color temperature provides user-friendly working environments.
- We are providing customized color temperature mode especially for Broadcasting Studio 9600K, 5500K, 3200K etc any color temperature you want.



● Portable Auto White Balance control program

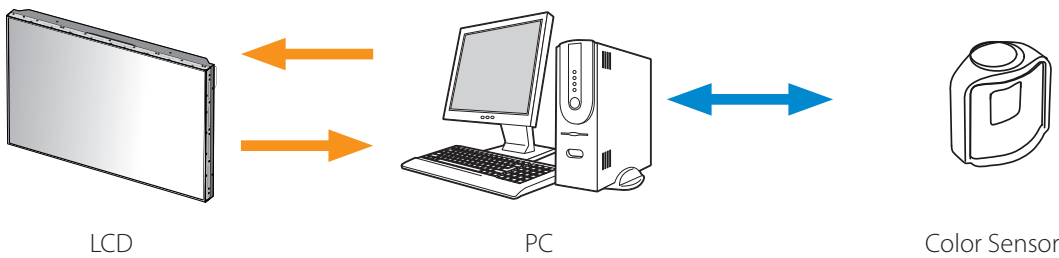
- Orion's Auto White Balance Control System is software to make color adjustment automatically.
- The color characteristics of each display are measured by X-Rite using a color sensor, which is connected via USB to a host PC.
- The sensor is placed on the screen and a series of test patterns generated by pc and measured by X-Rite.



Main Image of WBACS(v6.0)for MLCD

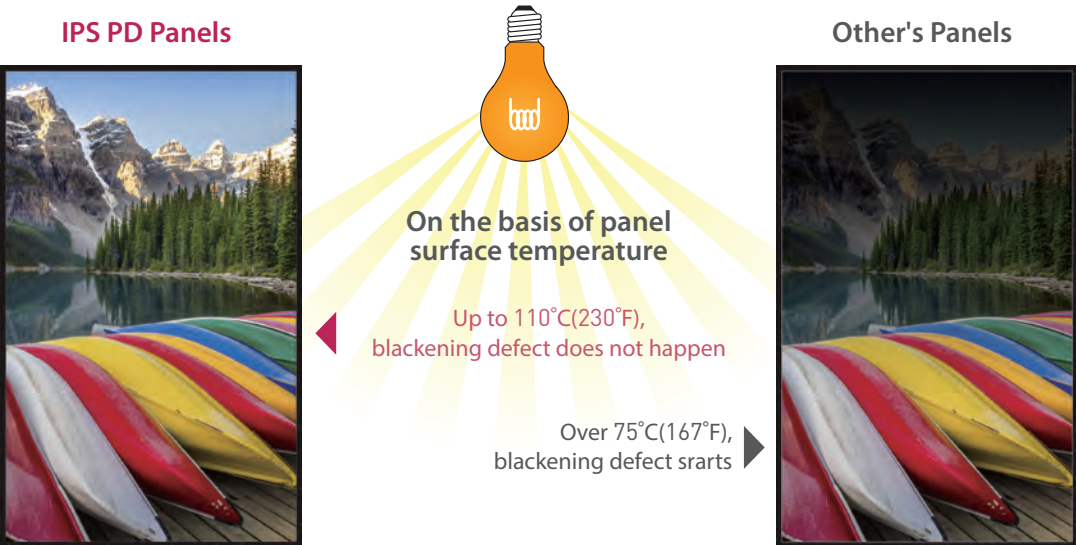


- In order to lessen your burden for high cost equipment such as Pattern Generator and Color Analyzer based on Minolta (CA-series), we've developed software adopting X-Rite color sensor to support your maintenance activities and make you more convenient.



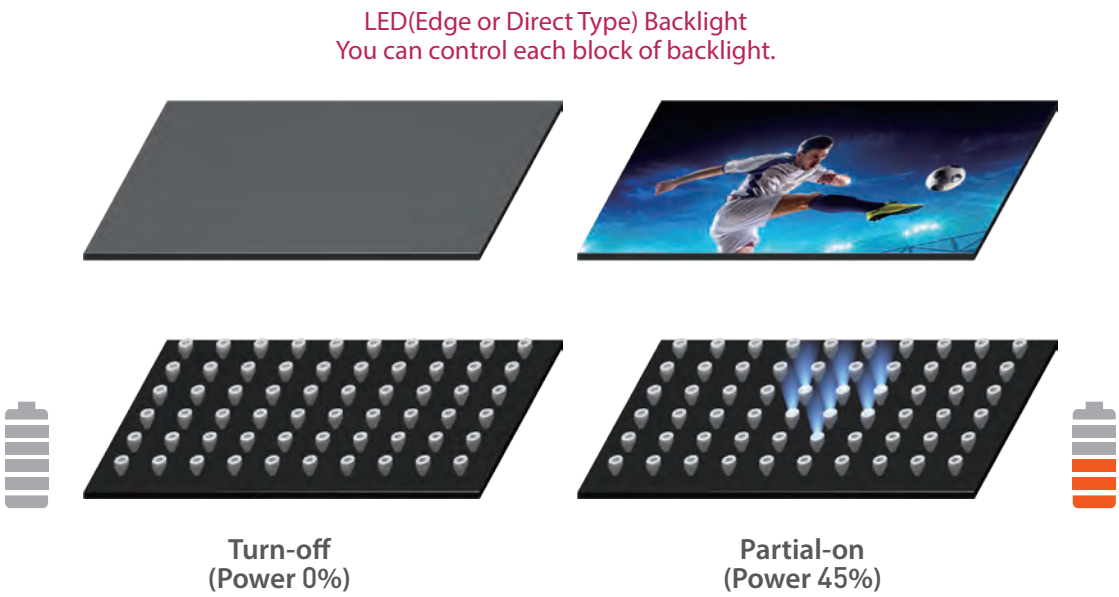
● Blackening defect free

Liquid crystal loses its own characteristics over the critical point of temperatures. IPS panel improves it by increasing the critical point up to 110°C.



● Local Dimming Control

Through local LED dimming control, you can see much higher contrast Ratio than VA panel.



Large format display **FHD & UHD(4K)**

Orion's DID monitor provide you high Uniformity, Calibration & Luminance technology.

70" FHD 84" UHD 98" UHD

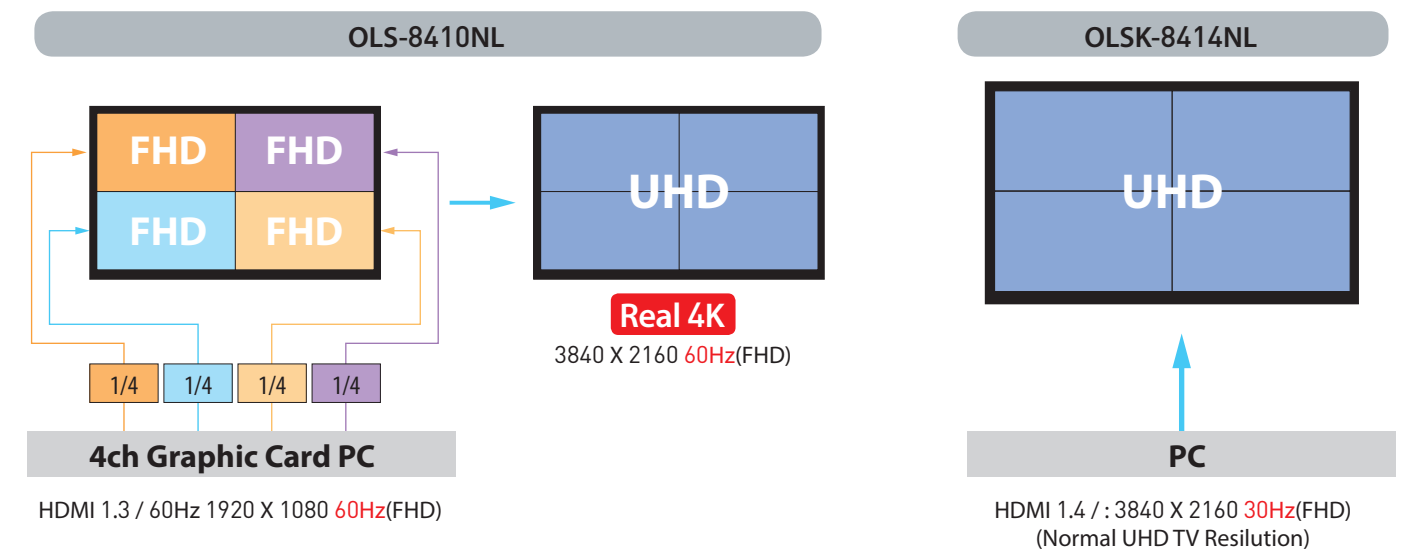


Reference for Real 4K Technology



Core Competitiveness

- Orion's 84"/98" UHD monitors are able to display real 4K 60hz contents with our own differentiated image processing technology combining 4*FHD image source into UHD image



Key Features

- Uniformity : Over 90% high uniformity can always show you stable color and brightness
- High calibration & Luminance : Expressing more exact color with high calibrated Gamma curve
- Both Portrait/Landscape type available
- Real 4K 60Hz image
- 70" to 98" large format display including Touch solution

Orion's UHD professional 98" LCD display

Not before seen in large format LCD displays size 98"
Outstanding picture quality : Native 4K displays
High Durability for professional use.

OLSK-98"series

2219.4 X 1274.4

>>

OLS/OLSK-84" series

1917 X 1103

>

OLS-70" series

1664.6 X 986.7



Orion’s DID Monitor Line-up

Model	Non-touch	Touch
Size		
70"	OLS-7010NBG	OLS-7010T6B
84"	OLS-8410NL	OLS-8410T6B
	OLS-8420NL	OLS-8420T6B
	OLSK-8414NL	OLSK-8414T6L
	OLSK-8424NL	OLSK-8414T6L
98"	OLSK-9824NL	OLSK-9824T6L (In developing)

OLSK Series

Model Name		OLSK-8414NL	OLSK-8424NL	OLSK-8414T6L	OLSK-8424T6L	OLSK-9824NL
Back Light Unit Type		LED				
Resolution		3840 x 2160				
Active Display Area		1860.48 x 1046.52 mm				2158.848 x 1214.352 mm
Display Colors		1.06 Billion (10 bits)				
Brightness		350cd/m²	500cd/m²	350cd/m²	500cd/m²	500cd/m²
Contrast Ratio		1,600 : 1	1,400 : 1	1,600 : 1	1,400 : 1	1,300 : 1
Lamp Life Time		50,000Hrs (Ta : 25±2°C)				30,000 Hrs(Ta : 25)
Power Consumption	Max	470 W				540 W
	Typical	440 W				510 W
	Stand-By	≤ 0.5 W				≤ 0.5 W
Support Resolution		720p, 1080i, 1080p, UHD(24p/25p/30p)				
In/Output Terminal		DP x 1, HDMI x 3, DVI x 1, PC x 1, RS-232C x 1, LAN x 1, IR x 1, USB Media x 1 USB x 1 (Touch model only)				
Control Method		RS-232C, Ethernet, Remote Controller, Keypad				
Surface Treatment		Hard coating (3H), Anti-Glare (Haze 10%)				Anti-reflection, Hard coating (2H)
Touch Function		-		IR Type 6 Points		-
Touch Glass		-		Anti-Glare		-
Dimension		1917 x 1103 x 95 mm		1928.6 x 1113.6 x 107.8 mm		2219.4 x 1274.4 x 97.5
Weight		72±0.5 kg		95±0.5 kg		

OLS Series

Model Name		OLS-8410NL	OLS-8420NL	OLS-8410T6L	OLS-8420T6L	OLS-7010NBG	OLS-7010T6B
Back Light Unit Type		LED				LED	
Resolution		3840 x 2160				1920 x 1080	
Active Display Area		1860.48 x 1045.52 mm				1549.44 x 871.56 mm	
Display Colors		16.7million colors (8bits)				16.7million colors (8bits)	
Brightness		350cd/m ²	500cd/m ²	350cd/m ²	500cd/m ²	400cd/m ²	
Contrast Ratio		1,600 : 1	1,400 : 1	1,600 : 1	1,400 : 1	4,000 : 1	
Lamp Life Time		50,000Hrs (Ta : 25±2℃)				50,000Hrs (Ta : 25±2℃)	
Power Consumption	Max	470 W				250 W	
	Typical	440 W				200 W	
	Stand-By	0.45 W				0.32 W	
Support Resolution		VGA, SVGA, XGA, UXGA, WXGA, Quad HD/4K, 480p, 576p, 720p(50/60), 1080p(50/60)				VGA, SVGA, XGA, SXGA, UXGA, WXGA, 480p, 576p, 720p(50/60), 1080i(50/60), 1080p(50/60)	
In/Output Terminal		HDMI x 8, RS-232C x 1, LAN x 1, A/S x 1, IR x 1 USB x 1 (Touch model only)				DVI (In x 1, Out x 1), HDMI (In x 1), VGA (In x 1, Out x 1), Component (In x 1), S-Video (In x 1), AV (In x 2)	
	Audio	PC/DVI x 1, Component x 1, AV1 x 1, AV2/S-Video x 1					
Control Method		RS-232C, Ethernet, Remote Controller, Keypad					
Surface Treatment		Hard Coating (3H), Anti-Glare (Haze 10%)				Hard-Coating (2H), Anti-Glare (Haze 2.3%)	
Touch Function		-		6 Point IR Touch		-	6 Point IR Touch
Touch Glass		-		Anti-Glare / Normal		-	Anti-Glare / Normal
Dimension		1917 x 1103 x 95 mm		1977.2 x 1163.2 x 104.3 mm		1664.6 x 986.7 x 92.5 mm	1664.6 x 986.7 x 101.5 mm
Weight		72±0.5 kg		120±0.5 kg		53±1 kg	80±1 kg

Orion 42" Curved LCD

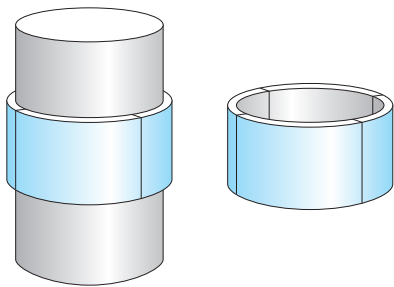
Technology of Curved LCD enable you to display LCD monitor wherever you want to install. And ORION can make any of size from 10" to 70".

42"



Key Features

- Customized design by request (Open/Closed frame, Size, Radius)
- Image distortion minimization
- Convex and concave bending



Specification

Item		42" Curved LCD
Display	Active Display Area	927.94x521.96 (42")
	Resolution	FHD (1920 x1080)
	Panel (LG IPS)	LD42DUE-SFR1_V1.0
	Curved type	Convex / Concave
	Radius	800mm / 1000mm
	Brightness	400cd/m²
	Contrast ration	1,000:1
	Response time	8ms
Input ./ Output	Frequency	60Hz
	USB	USB
Signal	COM IN	D-SUB 9pin
	HDMI	HDMI
	DVI IN	DVI-D 24pin
	VGA IN	D-SUB mini 15pin
	AUDIO IN	Mini Jack
Power Consumption	Typical	70~75W
Size	Dimension (mm)	975.5(H)x 615(V) x 30(T)
	Weight	15.8kg

PCAP(Projected Capacitive) Touch Monitor

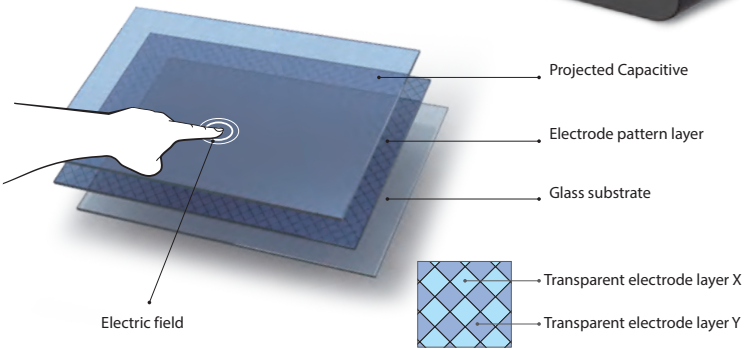
Touch Monitor : OLS-3210T/ OLS-3210S/ OLS-4210T/ OLS-4620T/ OLS-5520T/ OLSK-6510T
Android Embedded : OLS-3211T/ OLS-3211S/ OLS-4211T/ OLS-4621T/ OLS-5521T

32" 42" 46" 55" 65"



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.

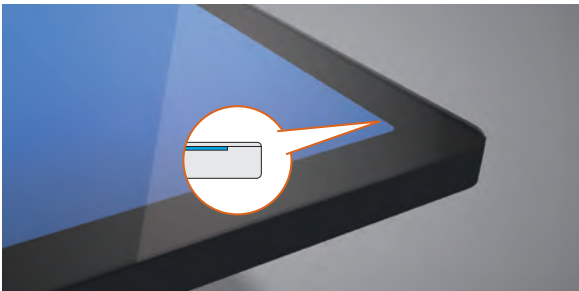


Advantage of projected Capacitive

- 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

● Advantage of Orion's PCAP monitor

- Stylish front glass (Bezel-less) PCAP

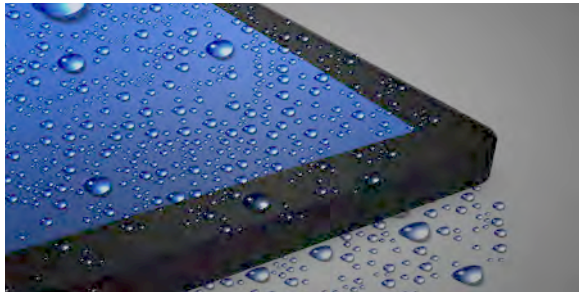


- 12 points multi-touch



● Key Features

- Water proof (IPX1)

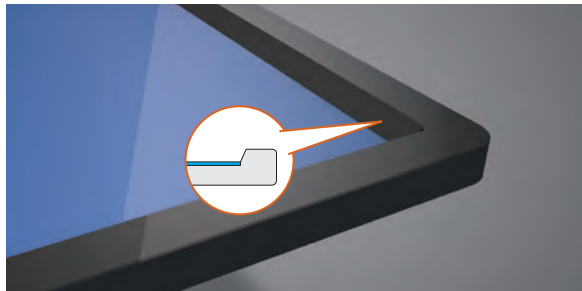


- LCD Panel is detachable from the tempered glass
Touch sensor, Maintenance cost-effective and easy repair
(Easy maintenance & Cost saving)

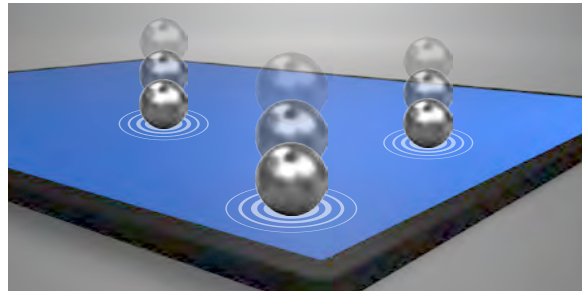


- Wall mountable & Side mountable/ Optional coating available (Anti-Glare)/ World Wide Certificate & RoHS/
Outstanding touch performance/Long-term stable operation under high temperature (24 / 7 / 365)

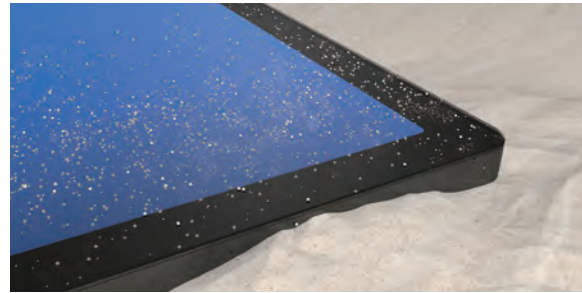
- Conventional I/R touch



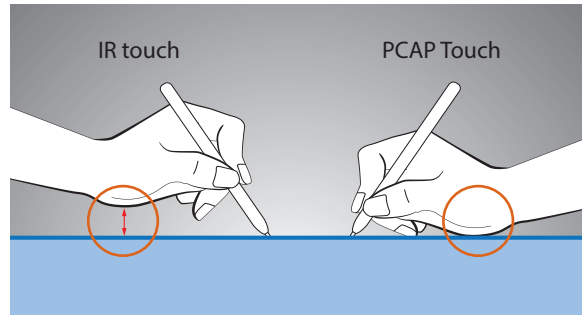
- 5mm tempered Glass (Anti-Vandalism)



- Dust proof (IP54)



- Palm rejection & Touch pen (4 mm)



● Touch Monitor Specification

Product Name	OLS-3210T	OLS-3210S	OLS-4210T	OLS-4620T	OLS-5520T	OLSK-6510T
Display size	32		42	46	55	65
Display Colors	8 bits					10 bits
Resolution	1920 x 1080					3840 x 2160
Contrast ratio	3000:1 (Typ)		1000:1 (Typ)	4000:1 (Typ)		1400:1 (Typ)
Luminance	350cd/m2		400cd/m2	500cd/m²		450cd/m²
Surface Treatment	Anti-Glare 3H (Haze 2%)		Hard coating(3H), AR(Haze 1%)	Anti-Glare (Haze 11%)		Hard Coating(2H) AG (1%)
Terminal	RS232C/D-SUB/ DVI-D/ HDMI		D-SUB/ DVI	RS232C/D-SUB / DVI/ HDMI		
Touch Response	15ms(1pt) ~ 30ms(12pt)					16ms
Touch Glass	4 mm	2.8 mm	4 mm	5 mm		
Internal Speaker	7Wx2	-	7Wx2			-

● Android Board Specification

- Android Embedded Model: OLS-3211T/ OLS-3211S/ OLS-4211T/ OLS-4621T/ OLS-5521T



OS	Android 4.2.2 KitKat	USB	USB HOST*4 (two external and two internal)
CPU	Quad-Core,	UART	4 (TTL*3,TTL+Flow Control*1)
Memory	Cortex-A17, 1.6GHz	LVDS	1 supports 50/60Hz LCD
Storage	DDR3 1G	HDMI	1 HDMI A-type interface
Storage	TSD FLASH 16G	Headphone	1 external SPDIF output
Extention	Up to 32GB SD/TF	Speaker	1 internal socket, maximum supports 2*2W/ 8Ω speaker
WiFi	Card extension,Built-in WiFi 802.11 b/g/n	SD/TF Card	1 standard SD / TF card slot (optional)
LAN	RJ45 standard interface	IR	IR (can be weld on master board or use with an extension cord)