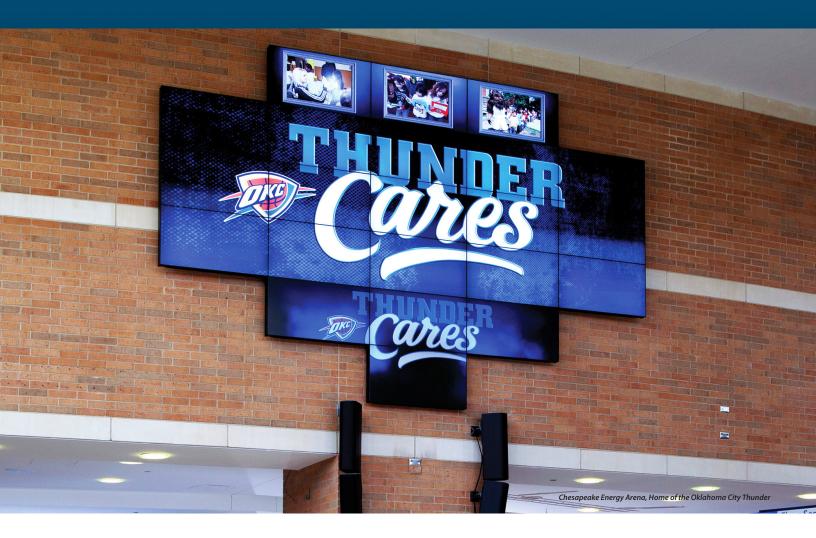


Clarity Matrix LCD Video Wall System WITH G2 ARCHITECTURE



Superior visual performance and mission-critical reliability

The Clarity[®] Matrix LCD Video Wall System with G2 Architecture is the ultimate video wall solution for applications seeking the very best visual performance and flexibility to accommodate the most mission-critical needs.

Planar's unique design approach optimizes the thinnest bezel LCD in the industry for 24x7 operation, minimizes installation depth and simplifies design, installation and service of the video wall. With a tiled bezel width as small as 3.7mm, the LCD video wall system includes Planar's integrated EasyAxis[™] Mounting System and G2 off-board electronics and power supply architecture, reducing total cost of ownership while delivering the most reliable LCD video wall.

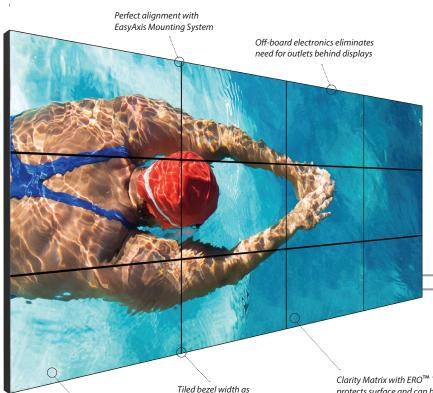
Unique Architecture and Benefits by Design

The Clarity Matrix LCD Video Wall System was designed and developed by display industry experts to address the challenges faced by all video wall installations: mounting and alignment, reliability and extended operation, service and maintenance access and simple, effective image processing and management.



At the heart of Clarity Matrix with G2 Architecture is a distributed design that takes heat, complexity and potential points of failure off the LCD panel and places it with a centrally located, easily accessible

and highly reliable rack-mounted system.



Fanless LCD module for whisper-auiet operation small as 3.7 mm

Clarity Matrix with ERO[™] Technology



Flexible built-in windowing capability

Most Comprehensive Line-up

The Clarity Matrix family is a complete line up of LCD video wall sizes and options to suit the needs in a wide variety of video wall applications.

Clarity Matrix

- 46" and 55"
- Two brightness levels available
- Tiled bezel width as small as 3.7 mm

Clarity Matrix with Extended Ruggedness and Optics (ERO[™]) Technology

Optically-bonded, vandal-resistant protective glass for increased ruggedness and durability

Clarity Matrix MultiTouch

- Turn-key modular touch kit adds interactivity and collaboration
- Choice of 6 or 32 simultaneous touch points
- Incorporates Planar's ERO technology

Clarity Matrix 3D

- Spectacular 2D and 3D viewing experience for professional 3D visualization applications
- Flicker-free stereoscopic visualization with passive glasses

Now supports cable lengths of 500ft with no additional hardware



Power supply module can drive as many as 8 displays

protects surface and can be touch enabled



Big Picture Plus Processing

Clarity Matrix supports a wide range of processing options to display sources on the video wall. Planar's Big Picture Plus processing is

built into Clarity Matrix and allows sources to be scaled across the entire video wall or any section of the video wall. To simplify set-up of Big Picture Plus, Clarity Matrix has position sensors built into the LCD that determine where it is located within the array and scale the sources across the video wall automatically, saving hours of set-up. Big Picture Plus processing also allows for ultra-high resolution content, up to 4K, to be spread over multiple displays at native resolution. For more complex configurations, Clarity Matrix supports all leading image processing and digital signage software solutions including Planar's Indisys[™] and Clarity[®] VCS image processing solutions.



Superior Visual Performance

You know when you see a Clarity Matrix video wall because it looks stunning, is perfectly aligned and has the thinnest mounted depth. Clarity Matrix with G2 Architecture provides the very best visual performance of any LCD video wall available, with smaller bezels, higher brightness, better uniformityand better alignment. Updated connectivity and 10-bit processing combined with Planar's Big Picture Plus processing enables ultra HD 4K sources to be tiled across the video wall.

Perfect Alignment

The Clarity Matrix Video Wall System includes Planar's integrated EasyAxis Mounting System that features built-in precise alignment capabilities, inwall service position and a super slim depth as thin as 3.6" (93mm). As a result, Clarity Matrix has the thinnest footprint of any LCD video wall, making it compliant with the Americans with Disabilities Act (ADA) requirement for protruding objects of less than four inches. EasyAxis adjustment cams facilitate precise 6-axis alignment ensuring uniform, minimized image-to-image gap.



EasyAxis Mounting System simplifies and minimizes the time required to install and maintain a perfectly aligned video wall

Mission Critical Design

Planar's unique architecture provides a mission-critical design with redundant power supplies, reduced thermal stress and health and status monitoring capabilities. Clarity Matrix with G2 Architecture adds SNMP LAN control, extra TIR prevention and ambient light sensing to extend the life of the video wall. For further reliability, Clarity Matrix power supply units include an n+1 redundant design so if any one power supply in the unit fails, the LCDs maintain uninterrupted operation.



Redundant power supply means greater up time

Fiber Video Extension option

For government and military customers delivering highly sensitive information, the Clarity Matrix Fiber Video Extension option provides a more secure and longer distance option for extending the video signal from the Clarity Matrix off-board electronics to the Clarity Matrix LCD video wall displays. The Fiber Video Extension provides integrated video extension over standard multimode or single-mode fiber optic cable. The Fiber Video Extension also incorporates an embedded USB extension in the fiber optic cable, eliminating the need for a third party USB extender.

Simplified Design, Installation and Service

Designing, installing and servicing a video wall with Clarity Matrix has never been easier. Clarity Matrix incorporates Planar's EasyAxis Mounting System delivering the industry's thinnest profile LCD video wall, built-in alignment and service capabilities. The new G2 architecture supports integrated video and power extension up to 500ft (150m) eliminating compatibility and integrity worries and costs associated with long distance cable extenders and AC power outlets behind the video wall. Fewer cables are necessary to run to the video wall, simplifying and reducing the cost of the system.



Clarity Matrix service mode for in-wall service

Clarity Matrix Architecture Advantages:

- Rack-mount components placed in easy-toservice location with no disruption at the video wall
- Co-location of the rack-mount components with sources or additional processing equipment for easy access
- No 3rd party long distance extenders or cables needed
- Entire video wall is controlled with a single remote control, RS232 or LAN device, including 3rd party control systems
- Fewer long distance cables run to the wall with on-wall, loop-out capabilities
- No AC outlets required behind the displays
- Automated brightness, color and gamma balancing tools

		CLARITY M	ATRIX LCD	VIDEO WALL	SYSTEM SPE	CIFICATION	S				
Model	LX46S-3D	LX46HDS	LX55HD	S MX46HDS	MX55HDS	LX46HDU	LX55HDU	MX46HDU	MX55HDU		
Diagonal	46"	46"	55"	46"	55"	46"	55"	46″	55″		
Brightness (optimal)	450 nits	500 nits	500 nits	800 nits	800 nits	500 nits	500 nits	800 nits	800 nits		
Contrast ratio (full field typical)	4500:1	3500:1	3500:1	3500:1	3500:1	3500:1	3500:1	3500:1	3500:1		
Power consumption (typical)*	205 watts	143 watts	176 watt	s 170 watts	228 watts	124 watts	163 watts	163 watts	219 watts		
Heat load at LCD (typical)	623 BTU/hr	440 BTU/hr	557 BTU/ł	nr 544 BTU/hr	628 BTU/hr	376 BTU/hr	520 BTU/hr	520 BTU/hr	628 BTU/hr		
Resolution	1366 x 768										
Backlight type	CCFL										
- ull viewing angle		178 degrees									
	Commercial-grade SPVA LCD										
Acoustic noise	Fanless operation										
Operating temperature	5 - 40° C										
Operating humidity range		20-90% RH non-condensing									
Backlight sensing and reporting		At display level									
Display module position sensing		Auto-sensing integrated									
<u> </u>		MOUNTING									
EasyAxis Mounting System		1 per display included. Optional VESA hole pattern available.									
Drientation											
loor standing mount bases		Landscape and Portrait Options									
n-wall service		Optional									
Display module position adjustment		Front and rear 6-axis integrated									
Regulations			Con	plies with EN60950, FC	C Class A, CISPR22/8	35, EC, EU RoHS, TAA	Compliant				
POI	WER SUPPLY MODU	LE		QUAD CONTROLLER MODULE							
Гуре	1U rack mount of	controller drives up	to 3-6 panels	Type 1U rack mount controller drives up to 4 panels							
Redundancy	n+1 redundant	n+1 redundant power supplies (optional)			Inputs 4 single link HDMI with HDCP; DisplayPort 1.1 in and out						
Line voltage	100-240 Volts A	100-240 Volts AC, 50/60Hz auto switching			mage scaling Clarity Big Picture Plus; 32x32 maximum						
Power status	Diagnostic LED'	Diagnostic LED's, health monitoring and alerts			Mullion compensation Integrated						
Maximum distance from LCD		Stopping to be personal and a left signature Interference 500 ft/150m max backlight Control RS-232, IR remote control, Clarity WallNet (LAN) (optional)						onal)			
				Controller status			stic LED's, health mo				
		Maximum distance	rom LCD								
				DEO EXTENSION MO				<u>_</u>			
Гуре	1 BLL rack mour	t module drives up		DEGENTENSION							
Fiber Optic Connection Type	SFP multi-mode	1 RU rack mount module drives up to 4 panels. SFP multi-mode transceivers supports distances up to 1000 ft (300m) from video wall. Compatible with single-mode transceivers supporting up to 10k from the wall. (Single-mode transceivers not provided)									
USB Extension		ule; USB-A @sp pan									
R Remote Extension	Embedded	, 000 / (@sp pu									
Power		ter; 100-240V AC ±	10% 47 to 63 H	z: 50W							
	Heroneriaap										
Madal	1.8465.20								MYCCUDU		
Model	LX46S-3D	LX46HDS-L	LX55HDS-L	MX46HDS-L	MX55HDS-L	LX46HDU-L	LX55HDU-L	MX46HDU-L	MX55HDU-		
Diagonal	46"	46"	55"	46"	55"	46"	55"	46"	55"		
Cabinet dimensions (WxH)	40.3" x 22.8" (1225.7 mm x 579.8 mm)	40.3" x 22.8" (1023.9 mm x 578.6 mm)	47.8" x 27.0" (1215.3 mm x 686.1 mm)	40.3" x 22.8" (1023.9 mm x 578.6 mm)	47.8" x 27.0" (1215.3 mm x 686.1 mm)	40.3″ x 22.8″ (1023.9 mm x 578.6 mm)	47.8" x 27.0" (1215.3 mm x 686.1 mm)	40.3" x 22.8" (1023.9 mm x 578.6 mm)	47.8" x 27.0 (1215.3 mm 686.1 mm)		
Installed depth with mount	3.6″/90mm	4.2"/107mm	4.2"/107mm	3.6"/90mm	3.6"/93 mm	3.6"/93 mm	3.6"/93 mm	3.6"/93 mm	3.6"/93 mm		
nstalled depth ERO with mount	N/A	4.4"/ 111mm	4.3"/ 110mm	3.7"/93mm	3.8"/96mm	3.7"/93mm	3.7"/93mm	3.7"/93mm	3.8"/96mm		
LCD module depth with VESA Option (Display Only)	N/A	4"/101.7mm	4"/101.7mm	3.3″/ 84mm	3.3"/ 84mm	3.4"/ 86mm	3.3″/ 85mm	3.4"/ 86mm	3.3"/ 84mm		

Option (Display Only)	N/A	47101.7mm	47101.7mm	3.3 / 84mm	3.3 / 84mm	3.4 / 86mm	3.3 / 85mm	3.4 / 86mm	3.3 / 84mm
ERO LCD module depth with VESA Option	N/A	4.1"/ 105mm	4.1"/ 105mm	3.4"/ 86mm	3.4"/ 86mm	3.5"/ 89mm	3.4"/ 88mm	3.5"/ 89mm	3.4"/ 86mm
Total weight (includes LCD & mount)	48 lbs (21.8 kg) 58 lbs (26.3 kg) with ERO	48 lbs (21.8 kg) 58 lbs (26.3 kg) with ERO	59 lbs (26.8 kg) 74 lbs (33.6 kg) with ERO	48 lbs (21.8 kg) 58 lbs (26.3 kg) with ERO	59 lbs (26.8 kg) 74 lbs (33.6 kg) with ERO	42lbs (19 kg) 55 lbs (24.9 kg) with ERO	59 lbs (26.8 kg) 74 lbs (33.6 kg) with ERO	42lbs (19 kg) 55 lbs (24.9 kg) with ERO	59 lbs (26.8 kg) 74 lbs (33.6 kg) with ERO
Tiled bezel width	7.1 mm	5.5 mm				3.7 mm			

 $*Power \ consumption \ can \ vary \ with \ configuration \ and \ backlight \ setting \ **Complies \ with \ US \ ADA \ regulations \ for \ installed \ depth \ <4''$



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