

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.

Off-board electronics eliminates need for outlets behind displays U.S. GOVERNMENT TO IMPUSE A PARTIAL INFITY TONE DIRECTION OF STALL AND THE TONE DIRECTION

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
- New 55" model with a tiled bezel width of 3.7 mm

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

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

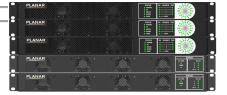
Clarity Matrix MultiTouch

- 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

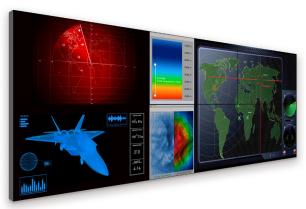
- Spectacular 2D and 3D viewing experience for professional 3D visualization applications
- Flicker-free stereoscopic visualization with passive glasses

Now supports cable lengths of 330ft with no additional hardware



Power supply module can drive as many as 8 displays





Flexible built-in windowing capability



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.

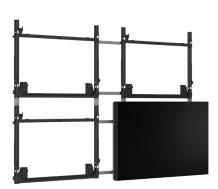


Superior Visual Performance

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 uniformity and 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, in-wall 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

Simplified Design, Installation and Service

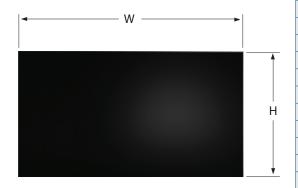
Designing, installing and servicing a video wall with Clarity Matrix has never been easier. Clarity Matrix incorporates Planar's EasyAxis Mounting System delivering the industry's thinnest profile LCD video wall, built-in alignment and service capabilities. The new G2 architecture supports integrated video and power extension up to 330 ft (100m) 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-to-service 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 onwall, loop-out capabilities
- No AC outlets required behind the displays
- Automated brightness, color and gamma balancing tools







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CLA	ARITY I	MATRIX LCI) VII	DEO WA	LL SYSTE	M SPECIFIC	CATIONS		
Model		LX46S-3		LX46HDS	MX46HD:		MX55HDS	MX55HDU	
Diagonal		46"		46"	46"	55"	55"	55"	
Brightness (optimal)		450 nits		500 nits	800 nits	500 nits	800 nits	800 Nits	
Contrast ratio (full field typical)		4500:1		3500:1	3500:1	3500:1	3500:1	3500:1	
Power consumption (typical)*		230 watt	s	147 watts	177 watts	183 watts	231 watts	231 watts	
Heat load at LCD (typical)		623 BTU/I	nr -	440 BTU/hr	544 BTU/hi	r 557 BTU/hr	628 BTU/hr	628 BTU/hr	
Resolution		1366 x 76	8			1920 x 1080			
Backlight type		CCFL	CCFL LED						
Full viewing angle			178 degrees						
Technology			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						
. , .		MOUNTING							
EasyAxis Mounting Sys		1 per display included. Optional VESA hole pattern available.							
Orientation			Landscape and Portrait Options						
Floor standing mount bases			Optional						
In-wall service		Front and rear							
Display module positionadjustment		6-axis integrated							
Regulations		C	nmnlie	s with FN609	950 ECC Class A	A, CISPR22/85, EC,	FLI ROHS TAA CON	nnliant	
	SUPPLY M		лирис.	3 WILLI EIVOO				прпанс	
Туре	nount controller o	t controller drives Type		QU	1U rack mount controller drives up to 4 panels				
up to 3-6 pane Redundancy n+1 redundar						4 single link HDMI with HDCP			
supplies (option						DisplayPort 1.1 in and out			
Line voltage	100-240 Volts AC, 50/60Hz auto switching			Image scaling		Clarity Big Picture Plus 32x32 maximum			
Power status	wer status Diagnostic LE monitoring ar				ation	Integrated			
				Control		RS-232, IR remote control, Clarity WallNet (LAN) (optional)			
Maximum distance from LCD	500 ft/150m max backlight			Frame lock		49-61 Hz			
			Controll		status Diagnostic LED's, health monitoring and alerts		alerts		
		Maximum distance fro			200ft/60m standard 330ft/100m with long distance option				
C1	.ARITY	MATRIX	.CD.			TEM DIME			
		LX46S-3D	LX46HDS-L		MX46HDS-L	LX55HDS-L	MX55HDS-L	MX55HDU	
Diagonal		46"	46				55"		
Cabinet dimensions (WxH) 40		40.3" x 22.8" 1225.7 mm x	40.3"x 1023.9 mm x				x 27.0" x 686.1 mm	47.8" x 27.0" 1215.3 mm x	
		579.8 mm 3.6"/90mm	4.2"/107mm		3.6"/90mm	4.2"/107mm	3.6"/93 mm	686.1 mm 3.6"/93 mm	
Installed depth ERO with mount (DM)		N/A	4.4"/ 111mm		3.7"/93mm	4.3"/ 110mm	3.8"/96mm	3.8"/96mm	
LCD module depth with VESA Option (Display Only) Option (D)		N/A	4"/101.7mm		3.3"/ 84mm	4"/101.7mm	3.3"/ 84mm	3.3"/ 84mm	
ERO LCD module depth with VESA Option		N/A	4.1"/ 105mm		3.4"/86mm	4.1"/ 105mm	3.4"/ 86mm	3.4"/ 86mm	
		48 lbs (21.8 kg) 58 lbs (26.3 kg) with ERO	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	59 lbs (26.8 kg) 74 lbs (33.6 kg) with ERO	59 lbs (26.8 kg) 74 lbs (33.6 kg) with ERO	

5.5 mm

3.7 mm

7.1 mm

Tiled bezel width

^{*}Power consumption can vary with configuration and backlight setting

^{**}Complies with US ADA regulations for installed depth <4" $\,$