

Clarity Matrix G3 LCD Video Wall System



#### Next-Generation Performance, Control and Value

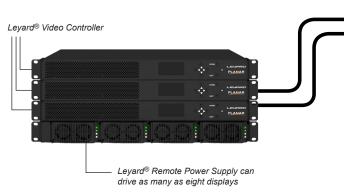
The Clarity<sup>®</sup> Matrix<sup>®</sup> G3 LCD Video Wall System is the ultimate LCD video wall solution for applications seeking the very best visual performance and mission-critical reliability.

Clarity Matrix G3 features a unique design that optimizes the thinnest bezel LCD in the industry with 24x7 operation, minimal installation depth and simplified design, installation and service. With a tiled bezel as small as 1.7mm, Clarity Matrix G3 includes the integrated Planar<sup>®</sup> EasyAxis<sup>™</sup> Mounting System and an off-board electronics and power supply architecture, reducing total-cost-of-ownership while delivering the most reliable LCD video wall solution.

# Unique Architecture and Benefits by Design

The third generation Clarity Matrix G3 LCD Video Wall System was designed and developed by video wall 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 G3 is a distributed design that takes heat, complexity and potential points-of-failure off the LCD display and places it with a centrally located, easily accessible and highly reliable rack-mounted system.





Fanless LCD module for whisper-quiet operation

Perfect alignment with Planar® EasyAxis™ Mounting System Clarity Matrix G3 with Planar<sup>®</sup> ERO<sup>™</sup> protects surface and can be touch enabled

### Simplified Design, Installation and Service

With Clarity Matrix G3, designing, installing and servicing an LCD video wall has never been easier. The architecture supports integrated video and power extension up to 200 feet (60 meters), eliminating compatibility and integrity concerns, as well as eliminating 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.

#### Architecture Advantages:

- · Rack-mount components 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 third party long-distance extenders or cables needed
- · Entire video wall is controlled with a single remote control, RS232 or LAN device, including third party control system
- · Fewer long distance cables run to the video wall with on-wall, loop-out capabilities
- · No AC outlets required behind the displays

### Perfect Alignment Simplified

The Clarity Matrix G3 LCD Video Wall System includes the Planar EasyAxis Mounting System with built-in precision alignment capabilities, an in-wall service position and a super-slim depth as thin as 3.6" (93mm). As a result, Clarity Matrix G3 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. Planar EasyAxis adjustment cams facilitate precise 6-axis alignment ensuring uniform, minimized image-to-image gap.



Mounting system simplifies installation and maintenance



#### Leyard<sup>®</sup> WallDirector<sup>™</sup> Software

Clarity Matrix G3 introduces a new intuitive and powerful software tool to simplify installation, configuration and operation of your video wall. With Leyard WallDirector Software, simple one button presets allow users to:

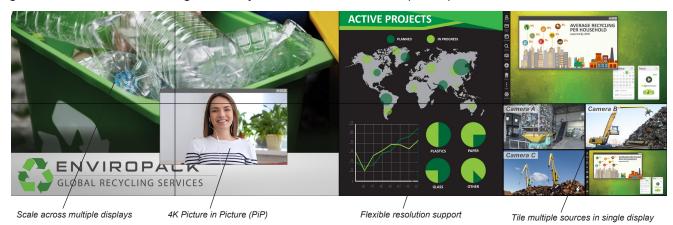
- Set-up and configure a video wall
- · Recall windowing layouts
- Drag and drop sources on the video wall canvas
- Easily manipulate the window size and position
- Capture the health status of all video wall components in a centralized, convenient location

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## Advanced Video Wall Processing

Clarity Matrix G3 delivers extensive and flexible video wall processing options to display sources on the video wall. With Planar<sup>®</sup> Big Picture Plus<sup>™</sup> Video Wall Processing, Clarity Matrix G3 allows sources to be scaled across the entire video wall or any section of the video wall. To simplify Planar Big Picture Plus set-up, Clarity Matrix G3 has position sensors built into the LCD that determine its location within the array and scale the sources across the video wall, saving hours of set-up time.

Planar Big Picture Plus Processing allows for ultra-high resolution content up to 4K, to be spread over multiple displays at native resolution. For more complex configurations, Clarity Matrix G3 supports all leading image processing and digital signage software solutions including the Clarity<sup>®</sup> Visual Control Station<sup>™</sup> (VCS<sup>™</sup>) Video Wall Processor.



#### **Mission Critical Design**

Clarity Matrix G3's unique architecture provides a mission-critical design with hot swappable redundant power supplies, redundant AC input circuitry, reduced thermal stress and health and status monitoring capabilities. Clarity Matrix G3 adds

n+1 hot swapping capabilities with the Leyard Remote Power Supply (RPS) so in the event of failure, the video wall remains operational without disruption.

For government and military customers delivering highly sensitive information, the Clarity<sup>®</sup> Matrix<sup>®</sup> Fiber Video Extension option provides a more secure and longer distance option for extending the video signal from Clarity Matrix G3 off-board electronics to Clarity Matrix G3 displays.



CLARIT	Y MATRIX	G3 LCD	VIDEO W	ALL SYST	EM SPEC	CIFICATIO	ONS			
Model	MX55X	LX55X	MX55U	LX55U	MX46X	LX46X	MX46U	LX46U		
Diagonal		55in (1				46in (11	68.4mm)	I		
Display Dimension, including mount	121	2 x 682 x 90mm (4	47.72 x 26.85 x 3.54	4in)	1022	2.9 x 577.5 x 91mm	n (40.24 x 22.70 x 3	3.6in)		
Brightness (cd/m sq)	800 nits	500 nits	800 nits	500 nits	800 nits	500 nits	800 nits	500 nits		
Tiled Bezel Width	1.7mm (0.06in)	1.7mm (0.06in)	3.7mm (0.15in)	3.7mm (0.15in)	1.7mm (0.06in)	1.7mm (0.06in)	3.7mm (0.15in)	3.7mm (0.15in)		
Power Consumption, Typical (watts)	249/Display	177/Display	237/Display	170/Display	178/Display	178/Display	153/Display	125/Display		
Heat Load	850BTU/hr	602BTU/hr	832BTU/hr	580BTU/hr	606BTU/hr	TBD	522BTU/hr	426BTU/hr		
Display Weight, including mount	26kg (56lb)	26kg (56lb)	26.8kg (59lb)	26.8kg (59lb)	19.1kg (42lb)	19.1kg (42lb)	19.1kg (42lb)	19.1kg (42lb)		
Mounted Depth, wall to display front				91.4mm	n (3.6in)					
LCD Technology				Commercial-grad	e direct view LCD					
Display Resolution	1920 x 1080									
Contrast Ratio				400	00:1					
Full Viewing Angle				17	'8°					
Backlight Sensing and Reporting				At displ	ay level					
Display Module Position Sensing				Auto-sensin	g integrated					
Acoustic Noise				Fanless operation	on at the display					
<b>Operating Temperature/Humidity</b> (degrees <i>F/C</i> ) 20-90% relative humidity, non-condensing				5° to 40° C	41° to 104° F					
Protective Glass				Planar ERO tech	nology (Optional)					
Regulations	Complies with EN60950, FCC Class A, CISPR22/85, EC, EU RoHS, TAA Compliant									
			MOUNTIN	G						
EasyAxis Mounting System			1 per display	included   VESA	hole pattern availa	ble (Optional)				
Americans with Disability Act (ADA) Compliance	Yes, less than 4in (101.6mm) clearance from wall									
Orientation				Landscape	or Portrait					
Floor Standing Mount Bases	Optional									
In-Wall Service Front and rear										
Display Module Position Adjustment				6-axis in	tegrated					
		R	EMOTE POWER	SUPPLY						
Model				RPS	5110					
Туре				1RU rack mount; 1	9in (482.6mm) rack	ζ				
Line Voltage				100-240 Volts /	AC autoranging					
Power Output				1200W p	er output					
Power Supply Configurations				1, 2 or 3	-					
Redundancy				n + 1 redun	dant option					
Hot Swap			Si	upported for each p	ower supply modu	le				
Low Power Standby Mode				<3W in sta	ndby mode					
Power Status						ılo				
Maximum Distance from Wall			Dia	agnostic LEDs per	power supply mode	lie				
					power supply modu 00ft (152.4m) maxi					
		VIDI		t (60m) standard, 5						
Туре		VIDI	200ft EO CONTROLLE	(60m) standard, 5		mum				
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Inputs			200ft EO CONTROLLE 1U r 4 HDMI 2.	ack mount controlle (w/ HDCP 2.2); 1	00ft (152.4m) maxi er drives up to 4 pa DisplayPort 1.2 In	mum nels put/Output	ng			
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