



## Next-Generation Performance, Control and Value

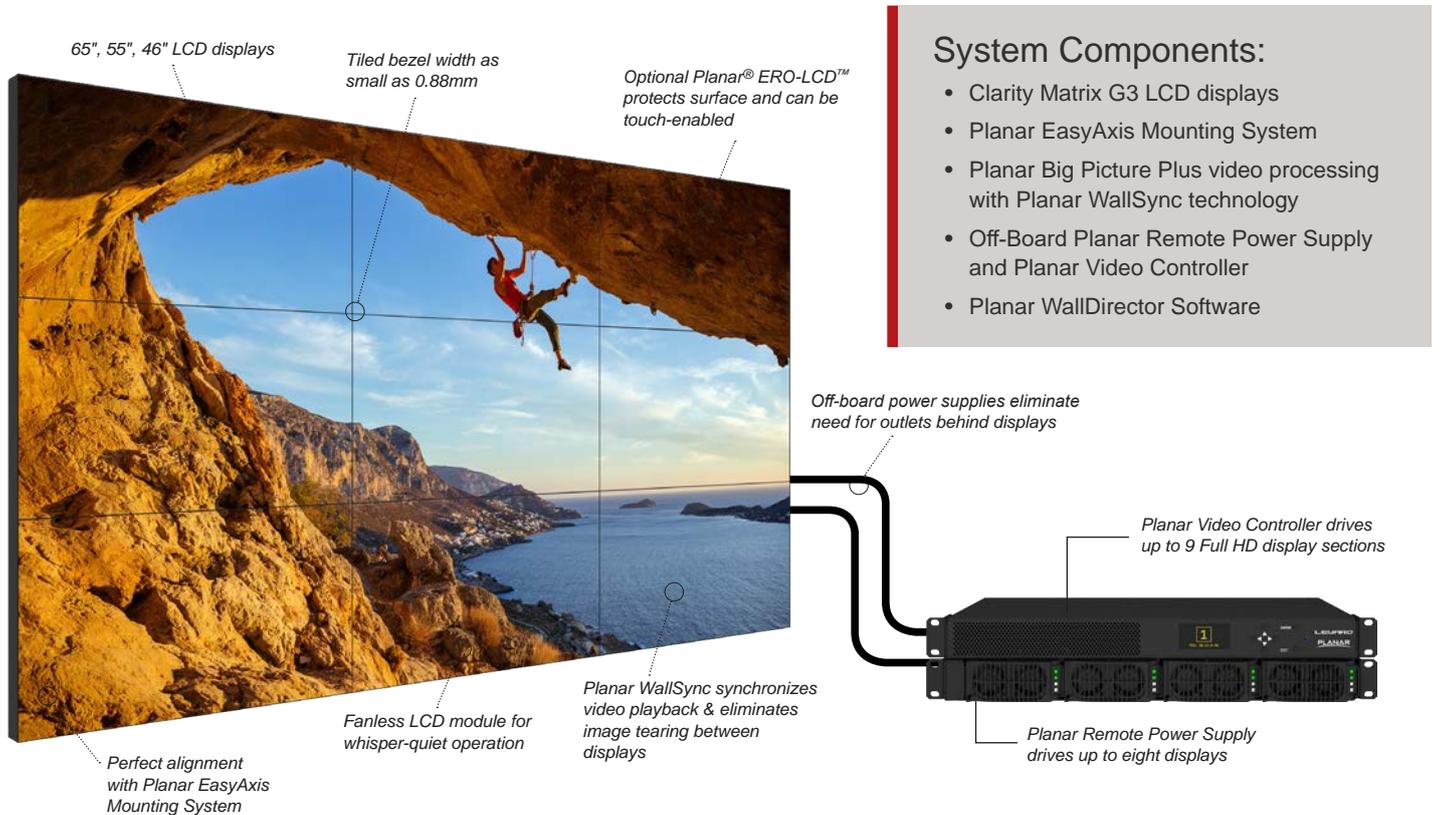
The Clarity® Matrix® G3 LCD Video Wall System is the ultimate LCD video wall solution for applications seeking the very best visual performance and mission-critical reliability.

Clarity Matrix G3 features a unique design that optimizes the extremely thin bezel LCD with 24x7 operation, minimal installation depth and simplified design, installation and service. With a tiled bezel as small as 0.88mm, Clarity Matrix G3 includes the integrated Planar® EasyAxis™ 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

Designed and developed by video wall industry experts, the third generation Clarity Matrix G3 LCD Video Wall System addresses the challenges faced by all video wall installations including: 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.



## Simplified Design, Installation and Service

Designing, installing and servicing an LCD video wall has never been easier with Clarity Matrix G3. The architecture is focused on 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:

- Integrated video and power extension up to 200 feet (60 meters)
- Rack-mount components can be co-located with sources and processing equipment for easy serviceability and no disruption at the video wall
- No third-party long-distance extenders or cables needed
- Entire video wall is controlled with a single remote control, RS-232 or LAN device, including third-party control system
- Power and video looping between panels for minimizing long-distance cable runs
- No AC outlets required behind the displays

## Perfect Alignment

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" (91mm). 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.

# Advanced Video Wall Processing

Clarity Matrix G3 delivers extensive and flexible video wall processing options to display sources on the video wall. With Planar® Big Picture Plus™ 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 eyevis™ netPIX™ Video Wall Processor.

Solving a range of video wall genlock and synchronization challenges, Clarity Matrix G3 includes Planar® WallSync™ genlock technology. Planar WallSync uses Smart Genlock to automatically ensure perfectly synchronized video playback without manual configuration.



Scale across multiple displays

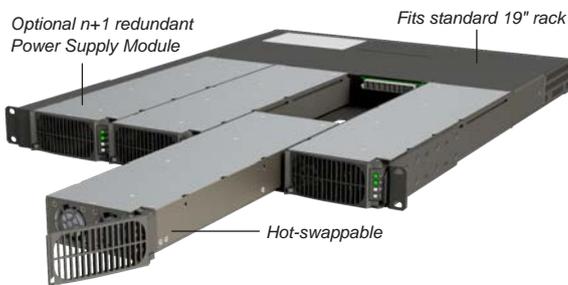
4K Picture in Picture (PiP)

Flexible resolution support

Tile multiple sources in single display

## Mission Critical Design

The unique architecture of Clarity Matrix G3 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 Planar® Remote Power Supply so in the event of failure, the video wall remains operational without disruption.



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 Clarity Matrix G3 off-board electronics to Clarity Matrix G3 displays.



## Planar WallDirector Software

Clarity Matrix G3 introduces Planar® WallDirector™ Software - a new intuitive and powerful software tool to simplify installation, configuration and operation of your video wall.

The Planar WallDirector Software allows users to:

- Set-up & configure a video wall
- Monitor the health & status of all video wall components from a convenient, centralized location
- Send customized email or SMS alerts to select people when specific fault conditions arise
- Store & recall windowing layouts via simple, one-button presets
- Drag & drop video wall canvas, for window positioning & sizing

# CLARITY MATRIX G3 LCD VIDEO WALL SYSTEM SPECIFICATIONS

Model	MX65U-4K	LX55M/MX55M	LX55X2/MX55X2	LX55U	LX46X	LX46U
Diagonal	65 in / 1651 mm	55 in / 1397 mm	55 in / 1397 mm	55 in / 1397 mm	46 in / 1168.4 mm	46 in / 1168.4 mm
Display Dimension (including mount, WxHxD)	54.4 × 31.8 × 3.7 in (1433.6 × 808.6 × 93 mm)	47.6 × 26.8 × 3.5 in (1210.5 × 681.2 × 90mm)	47.7 × 26.9 × 3.6 in (1211 × 683 × 91 mm)	47.8 × 26.9 × 3.6 in (1213 × 684 × 91 mm)	40.3 × 22.7 × 3.6 in (1019 × 573 × 91 mm)	40.2 × 22.7 × 3.6 in (1022 × 577 × 91 mm)
Display Weight Landscape (including mount)	64 lbs / 29 kg	47 lbs / 21.1 kg	51 lbs / 23 kg		40 lbs / 18 kg	
Display Weight Portrait (including mount)	66 lbs / 30 kg	49 lbs / 22.4 kg	54 lbs / 24.5 kg		42 lbs / 19 kg	
Brightness	800 cd/m <sup>2</sup> or nits	500 cd/m <sup>2</sup> or nits 700 cd/m <sup>2</sup> or nits	500 cd/m <sup>2</sup> or nits 700 cd/m <sup>2</sup> or nits	500 cd/m <sup>2</sup> or nits		
Tiled Bezel Width	3.7 mm / .15 in	.88 mm / .04 in	1.8 mm / .06 in	3.7 mm / .15 in	1.7 mm / .06 in	3.7 mm / .15 in
Power Consumption (Max/display)	390W	LX: 235W / MX: 235W	LX: 160W / MX: 215W	155W	125W	115W
Heat Load (Max/display)	1331 BTU/hr	LX: 802 BTU/hr MX: 802 BTU/hr	LX: 546 BTU/hr MX: 734 BTU/hr	LX: 529 BTU/hr	LX: 426 BTU/hr	LX: 392 BTU/hr
Mounted Depth (wall to display face)	3.7 in / 93 mm			3.6 in / 91 mm		
LCD Technology	Commercial-grade direct-view LCD					
Display Resolution	3840 × 2160		1920 × 1080			
Contrast Ratio	4000:1	10000:1 (local dimming on) 1100:1 (local dimming off)	30000:1 (local dimming on) 1400:1 (local dimming off)	4000:1		
Cat6A STP Cables/Connectors	Required (Fiber installations excluded)					
Full Viewing Angle	178°					
Backlight Sensing and Reporting	At Display Level					
Display Module Position Sensing	Yes					
Acoustic Noise at Display	Fanless/Noiseless					
Operating Temperature/Humidity	5° to 40° C   41° to 104° F (20-90% relative humidity, non-condensing)					
Protective / Touch Glass Option	Planar ERO-LCD technology (Optional)					

## MOUNTING

Mounting Solutions	Planar EasyAxis Mounting System (1 per display included)   VESA hole pattern available (Optional)
Americans with Disability Act (ADA) Compliance	Yes, clearance from wall under 4in
Orientation	Landscape or Portrait
Floor Standing Mount Bases	Optional
In-Wall Service	Front and Rear
Display Module Position Adjustment	6-axis integrated adjustments

## REMOTE POWER SUPPLY

Model	RPS110	RPS220
Type	1RU rack mount; 19in (482.6mm) rack	1.5RU rack mount; 19in (482.6mm) rack
Line Voltage	100-240 Volts AC autoranging	200-240 Volts AC autoranging
Power Output	1200W per output	
Power Supply Configurations	1, 2 or 3 outputs	2, 4 or 6 outputs
Redundancy	n + 1 redundant option	
Hot Swap	Supported for each power supply module	
Low Power Standby Mode	<3W in standby mode	
Power Status	Diagnostic LEDs per power supply module	
Maximum Distance from Wall	200ft (60m) standard, 500ft (152.4m) maximum	

## VIDEO CONTROLLER

Type	1U rack mount controller drives up to 9 Full HD (1920x1080) panels
Video Inputs	4× HDMI 2.0 (w/ HDCP 2.2); 1× DisplayPort 1.2
Video Outputs	9-Output Controller: 9× RJ45 8P8C, 1× DisplayPort 1.2 4-Output Controller: 4× RJ45 8P8C, 1× DisplayPort 1.2
Image Scaling	Planar Big Picture Plus Processing, Planar WallSync, PiP, 4K at 60Hz upscaling and downscaling
Mullion Compensation	Integrated with pixel by pixel adjustments
Control	IR Remote Control, RS-232, USB, Network, Planar WallDirector Software
Controller Status	Diagnostic LEDs, health monitoring and alerts
Maximum Distance from Wall	200ft (60m)

## FIBER VIDEO EXTENSION MODULE OPTION

Type	1U rack mount module drives up to 4 displays
Fiber Optic Connection Type	10G Duplex LC SFP+ single mode transceivers supporting distances up to 10km (32.8kft) (Single mode transceivers supporting 2km (6500ft) included) from video wall. Compatible with multi mode transceivers supporting up to 300m (980ft) from the wall. (Multi mode transceivers not provided)
USB Extension	USB-B at module; USB-A at panel
IR Remote Extension	Embedded
Power	Powered by the Remote Power Supply. Optional AC Power Adapter available when the Fiber Module is located away from the Remote Power Supply.