

Clarity Matrix G3

LCD Video Wall System

- ▶ *55" Full HD LCD displays*
- ▶ *Tiled bezel widths as narrow as 0.88mm*
- ▶ *500 & 700 nit brightness*
- ▶ *24x7 operation*



Clarity® Matrix® G3 LCD Video Wall System is the gold standard, marrying superior visual performance and mission-critical reliability with the industry's narrowest bezels between adjacent displays, for a nearly seamless solution. It has industry's thinnest ADA-Compliant profile, proven off-board electronics, strong video processing and convenient service access.

Clarity Matrix G3 addresses the challenges faced by all LCD video wall installations including mounting and alignment, reliability and extended operation, service and maintenance access and simple, effective image processing and management.

Always-On Reliability

Clarity Matrix G3 is designed for mission-critical environments where displays need to withstand extended or continuous operation day and night. Control rooms, hospitals and other applications that can't afford downtime benefit from exceptional performance 24x7.





Powerful Video Control

The compact and scalable Planar® WallDirector™ Video Controller drives the video wall at native resolution while its corresponding web-based management software simplifies set-up, configuration, operation and monitoring.

The 1U rack mount video controller captures multiple 4K inputs and can be stacked with additional controllers.



Reliable Off-Board Power

The Planar® Remote Power Supply (RPS) takes heat, depth, noise, weight, service points and electrical outlets away from the video wall and into a rack room. Featuring n+1 redundant, hot swap power modules, the Planar RPS is available with 110V and 220V power and features a low power standby mode when not operating 24x7.



Advanced Processing

Planar® Big Picture Plus™ Video Wall Processing enables users to simultaneously view ultra-high resolution content from several independent sources, scaling content across the entire video wall or any section. It also facilitates Picture-in-Picture.



Convenient Mounting

Planar® EasyAxis™ Mounting System features six-axis adjustments for perfect alignment in any array, for precise tiled images. For simplified service, it incorporates a service mode for front and rear in-wall display repair, without removing other displays.



Source Synchronization

Planar® WallSync™ uses Smart Genlock to automatically ensure perfectly synchronized video playback without manual configuration.



Made for America

Organizations that prefer to use products that have been manufactured in the United States or countries designated in the U.S. Trade Agreements Act (TAA) need look no further. Clarity Matrix G3 is TAA Compliant.



Enable Interactivity

The optional Clarity® Matrix® MultiTouch LCD Video Wall System offers 32 simultaneous touch points and sizes up to a 350" diagonal, enabling multiple users to interact. It delivers a superior touch experience with pin-point accuracy and false touch point prevention. It is available in standard 2x2 or 3x3 video wall arrays in 16:9 aspect ratio for popular content resolutions. Custom configurations are also available.



Extended Ruggedness & Optics

Optional Planar® ERO-LCD™ (Extended Ruggedness and Optics™) protective glass can be bonded to the front surface of the display using a proprietary process that creates a highly durable display surface that withstands rigors of high-traffic and interactive environments. It also delivers up to 300% more perceived contrast.

Off-the-Shelf Video Walls

Clarity® Matrix® G3 Complete™ is a pre-packaged LCD video wall solution that combines everything necessary to more-quickly select and deploy a 0.88mm tiled bezel width LCD video wall. This packaged solution removes the challenge of separately collecting everything; simply pick the 4K 2x2, 6K 3x3 or 8K 4x4 array that works best in the application.

INCLUDED

- 55", 0.88mm Tiled Bezel Width Displays
- Planar WallDirector Video Controller
- Power Supply Electronics
- Mounts
- Cables
- Trim



Configure a Video Wall

If none of the Clarity Matrix G3 Complete video walls is quite right, custom arrays of Clarity Matrix G3 with different bezel widths and brightness are available.

Design a video wall at www.planar.com/calculator



Specifications

Model	LX55M/MX55M	LX55X2/MX55X2
Diagonal	55in / 1,397mm	55in / 1,397mm
Tiled Bezel Width	0.88mm 0.04in	1.8mm 0.07in
Brightness (cd/m² or nits)	LX: 500 / MX: 700	LX: 500 / MX: 700
Contrast Ratio	10,000:1 (local dimming on) 1,100:1 (local dimming off)	30,000:1 (local dimming on) 1,400:1 (local dimming off)
Display Dimensions (w/ mount, WxHxD)	47.6 x 26.8 x 3.5in (1,210.5 x 681.2 x 90mm)	47.7 x 26.8 x 3.6in (1,212 x 683 x 91mm)
Display Weight L P (w/ mount)	47lbs / 21.1kg 49lbs / 22.4kg	51lbs / 23.2kg 54lbs / 24.5kg
Power Consumption (Max/display)	LX: 235W / MX: 235W	LX: 160W / MX: 215W
Heat Load (Max/display)	LX: 802 BTU/hr / MX: 802 BTU/hr	LX: 802 BTU/hr / MX: 802 BTU/hr
Mounted Depth (wall to display face)	3.6 in / 91.4 mm	
Display Resolution	1920 x 1080	
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)
ADA Compliance	Yes, clearance from wall <4in
Orientation	Landscape or Portrait
FloorStanding Mount Bases	Optional
In-Wall Service	Front and Rear
Display Module Position Adjustment	6-axis integrated adjustments

Planar Remote Power Supply

Type	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 Video Wall	200ft (60m) standard, 500ft (152.4m) maximum	

Planar WallDirector Video Controller

Type	1U rack mount controller drives up to 9 Full HD (1920x1080) panels
Video Inputs	4x HDMI 2.0 (w/ HDCP 2.2); 1x DisplayPort 1.2
Video Outputs	9-Output Controller: 9x RJ45 8P8C, 1x DisplayPort 1.2 4-Output Controller: 4x RJ45 8P8C, 1x 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.

For more information visit: www.planar.com/

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