



Clarity Matrix G3 MX55M

LCD Video Wall System

The Clarity® Matrix® G3 MX55M is a 55" LCD video wall display with a tiled bezel width of 0.88 mm that provides a nearly seamless digital canvas, outstanding tiled visual performance, extended operation and requires minimal installation space. The reduced weight of Clarity Matrix G3 MX55M facilitates increased durability and easier installation. User-selectable local dimming delivers the highest contrast ratio and black-level uniformity, for brighter whites and darker, more consistent, blacks. Designed for 24x7 operation, the Clarity Matrix G3 MX55M features 700 nits brightness, LED backlight technology and Full HD resolution—making it the ideal video wall for high-impact, mission-critical applications.



Note: Cat6A STP (shield twisted pair) cables and connectors are required.

SPECIFICATION	DETAIL
Technology	Commercial-grade LCD
Per Panel Dimensions (Including Mount)	47.7 x 26.8 x 3.6 in 1210.5 x 681.2 x 91.3 mm
Diagonal	55in 1397mm
Native Resolution Panels	1920 x 1080
Aspect Ratio	16:9
Tiled Bezel Width	0.88 mm .04 in
Thermal Expansion Gap Required	0.4 mm .02 in
Power Consumption (max/display)	235W

Power supply voltage	100-230V AC ± 10%, 50 to 60 Hz
Power Status	Diagnostics LEDs, health monitoring and alerts
Per Panel Weight (Including Mount)	47 lbs 21.1 kg (Landscape) 49 lbs 22.4 kg (Portrait)
Shipping weight	106 lbs 48.1 kg (single pack) / 170 lbs 77.1 kg (dual pack)
Mounted Depth	3.6in 91.44mm (wall to front of display)
Brightness (typ)	700 cd/m ² or nits
Contrast ratio (full field)	10000:1 (local dimming on) 1100:1 (local dimming off)
Response Time (typ)	8 ms
Full viewing angle	178°
Haze	28%
Video Inputs (Controller)	4x HDMI® 2.0 (w/ HDCP 2.2), 1x DisplayPort 1.2 (VC4H-BP+, VC9H-BP+ only)
Video Outputs (Controller)	VC9H-BP+: 9x RJ45 8P8C, 1x DisplayPort 1.2 VC4H-BP+: 4x RJ45 8P8C, 1x DisplayPort 1.2 VC4-HSL: 4x RJ45 8P8C
High Speed Link (HSL)	VC4-HSL: 2 Out, 2 In, QSFP+ cable
HSL Loop Capacity	VC4-HSL: 80Gb. 4x 4K or 16x Full HD video sources
Video Extension built-in	200ft 60m over STP CAT6
Control	IR Remote Control, RS-232, USB, Network, Planar WallDirector Software
Sync	Mini BNC In/Out
Backlight control	Individual and wall control
Backlight sensing and reporting	At display level
Display module position sensing	Auto-sensing integrated
Backlight life (1/2 brightness)	50,000 Hrs
Power Supply	Offboard Redundant Optional Hot Swap
Wall Mount	Planar® EasyAxis™ Mounting System VESA Mount (optional)
Acoustic Noise	LCD: <30dBA (fanless), VC: 45dBA, RPS: <40dBA @ 25°C

	(77°F)
Heat Load (max/display)	802 BTU/hr
Operating Temperature/Humidity (degrees F/C, relative humidity)	5° to 40° C / 20-90% RH 41° to 104° F / 20-90% RH
Orientation	Landscape or Portrait
Safety regulations	Complies with EN62368-1, FCC Class A, CISPR22/85, CE, EU RoHS
Cat6 Cables and Connectors	Cat6a STP (shield twisted pair) cables and connectors are required.
Touch Technology	Clarity Matrix MultiTouch (optional)
Protection	Planar® ERO-LCD™ (Extended Ruggedness and Optics™) Technology (optional)
Fiber Video Extension Module Option	1 RU rack mount module drives up to 4 displays
Fiber Video Extension Module Outputs	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)
HDMI®	Planar utilizes HDMI® standards in this product. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

For more information, please visit www.planar.com

Specifications are subject to change without notice.

Specification Report Date: 5/9/2025

© Copyright 2025 Planar Systems, Inc. All rights reserved