



# 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

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

	(77°F)
<b>Heat Load (max/display)</b>	802 BTU/hr
<b>Operating Temperature/Humidity (degrees F/C, relative humidity)</b>	5° to 40° C / 20-90% RH   41° to 104° F / 20-90% RH
<b>Orientation</b>	Landscape or Portrait
<b>Safety regulations</b>	Complies with EN62368-1, FCC Class A, CISPR22/85, CE, EU RoHS
<b>Cat6 Cables and Connectors</b>	Cat6a STP (shield twisted pair) cables and connectors are required.
<b>Touch Technology</b>	Clarity Matrix MultiTouch (optional)
<b>Protection</b>	Planar® ERO-LCD™ (Extended Ruggedness and Optics™) Technology (optional)
<b>Fiber Video Extension Module Option</b>	1 RU rack mount module drives up to 4 displays
<b>Fiber Video Extension Module Outputs</b>	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)
<b>HDMI®</b>	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](http://www.planar.com)

*Specifications are subject to change without notice.*

*Specification Report Date: 4/30/2025*

*© Copyright 2025 Planar Systems, Inc. All rights reserved*