



# Clarity Matrix G3 LX55X3

## LCD Video Wall System

The Clarity® Matrix® G3 LX55X3 is a 55" LCD video wall display with a narrow tiled bezel width of 2.6mm that provides a nearly seamless digital canvas, outstanding tiled visual performance, extended operation and requires minimal installation space. Designed for 24x7 operation, the Clarity Matrix G3 LX55X3 features 500 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 26.9 x 3.6in   1212.2 x 683.0 x 90.9mm
Diagonal	55in   1396mm
Native Resolution Panels	1920 x 1080
Aspect Ratio	16:9
Tiled Bezel Width	0.10in   2.6mm
Thermal Expansion Gap Required	0.4 mm   .02 in
Power Consumption (max/display)	150W
Power supply voltage	100-230V AC ± 10%, 50 to 60 Hz
Power Status	Diagnostics LEDs, health monitoring and alerts
Per Panel Weight (Including	50.6lb   23.2kg (Landscape)

Mount)	53.5lb   24.1kg (Portrait)
Shipping weight	106lbs   48.1kg (single pack) / 157lbs   71.3kg (dual pack)
Mounted Depth	3.6in   91.44mm (wall to front of display)
Brightness (typ)	500 cd/m <sup>2</sup> or nits
Contrast ratio (full field)	1000:1
Contrast Ratio - Dynamic	100000:1 (typ)
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)	512 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: 5/4/2024*

*© Copyright 2024 Planar Systems, Inc. All rights reserved*