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

**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.

**Source Synchronization**

**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.

**WallSync™**

**Source Synchronization**

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

**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.

**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

<table>
<thead>
<tr>
<th>Model</th>
<th>LX55M/MX55M</th>
<th>LX55X2/MX55X2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagonal</td>
<td>55in / 1,397mm</td>
<td>55in / 1,397mm</td>
</tr>
<tr>
<td>Tiled Bezel Width</td>
<td>0.88mm</td>
<td>0.4in</td>
</tr>
<tr>
<td>Brightness (cd/m² or nits)</td>
<td>LX: 500 / MX: 700</td>
<td>LX: 500 / MX: 700</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>10,000:1 (local dimming on)</td>
<td>1,100:1 (local dimming off)</td>
</tr>
<tr>
<td>Display Dimensions (w/ mount, WxHxD)</td>
<td>47.6 x 26.8 x 3.5in (1,210.5 x 681.2 x 90mm)</td>
<td>47.7 x 26.8 x 3.6in (1,212 x 683 x 91mm)</td>
</tr>
<tr>
<td>Acoustic Noise at Display</td>
<td>Fanless/Noiseless</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature/Humidity</td>
<td>5° to 40° C</td>
<td>41° to 104° F</td>
</tr>
<tr>
<td>Planar ERO-LCD technology (Optional)</td>
<td></td>
<td>Planar WallDirector Software</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Type</th>
<th>RPS110</th>
<th>RPS220</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>1RU rack mount; 19in (482.6mm) rack</td>
<td>1.5RU rack mount; 19in (482.6mm) rack</td>
</tr>
<tr>
<td>Line Voltage</td>
<td>100-240 Volts AC autoranging</td>
<td>200-240 Volts AC autoranging</td>
</tr>
<tr>
<td>Power Output</td>
<td>1200W per output</td>
<td></td>
</tr>
<tr>
<td>Redundancy</td>
<td>n + 1 redundant option</td>
<td></td>
</tr>
<tr>
<td>Hot Swap</td>
<td>Supported for each power supply module</td>
<td></td>
</tr>
<tr>
<td>Low Power Standby Mode</td>
<td>&lt;3W in standby mode</td>
<td></td>
</tr>
<tr>
<td>Power Status</td>
<td>Diagnostic LEDs per power supply module</td>
<td></td>
</tr>
<tr>
<td>Maximum Distance from Video Wall</td>
<td>200ft (60m) standard, 500ft (152.4m) maximum</td>
<td></td>
</tr>
</tbody>
</table>

### 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
- **Image Scaling:** Planar Big Picture Plus Processing, Planar WallSync, PIP, 4K at 60Hz upsampling 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 (32.8ft) (Single mode transceivers supporting 2km (6560ft) included from video wall. Compatible with multi mode transceivers supporting up to 300m (984ft) 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.

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For more information visit: [www.planar.com/matrix](http://www.planar.com/matrix)

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