Next-Generation Performance, Control and Value

The Clarity® Matrix® G3 LCD Video Wall System is the ultimate LCD video wall solution for applications seeking the very best visual performance and mission-critical reliability.

Clarity Matrix G3 features a unique design that optimizes the thinnest bezel LCD in the industry with 24x7 operation, minimal installation depth and simplified design, installation and service. With a tiled bezel as small as 1.7mm, Clarity Matrix G3 includes the integrated Planar® EasyAxis™ Mounting System and an off-board electronics and power supply architecture, reducing total-cost-of-ownership while delivering the most reliable LCD video wall solution.
Unique Architecture and Benefits by Design

The third generation Clarity Matrix G3 LCD Video Wall System was designed and developed by video wall industry experts to address the challenges faced by all video wall installations: mounting and alignment, reliability and extended operation, service and maintenance access and simple, effective image processing and management.

At the heart of Clarity Matrix G3 is a distributed design that takes heat, complexity and potential points-of-failure off the LCD display and places it with a centrally located, easily accessible and highly reliable rack-mounted system.

Simplified Design, Installation and Service

With Clarity Matrix G3, designing, installing and servicing an LCD video wall has never been easier. The architecture supports integrated video and power extension up to 200 feet (60 meters), eliminating compatibility and integrity concerns, as well as eliminating costs associated with long distance cable extenders and AC power outlets behind the video wall. Fewer cables are necessary to run to the video wall, simplifying and reducing the cost of the system.

Architecture Advantages:

- Rack-mount components in easy-to-service location with no disruption at the video wall
- Co-location of the rack-mount components with sources or additional processing equipment for easy access
- No third party long-distance extenders or cables needed
- Entire video wall is controlled with a single remote control, RS232 or LAN device, including third party control system
- Fewer long distance cables run to the video wall with on-wall, loop-out capabilities
- No AC outlets required behind the displays

Perfect Alignment Simplified

The Clarity Matrix G3 LCD Video Wall System includes the Planar EasyAxis Mounting System with built-in precision alignment capabilities, an in-wall service position and a super-slim depth as thin as 3.6" (93mm). As a result, Clarity Matrix G3 has the thinnest footprint of any LCD video wall, making it compliant with the Americans with Disabilities Act (ADA) requirement for protruding objects of less than four inches. Planar EasyAxis adjustment cams facilitate precise 6-axis alignment ensuring uniform, minimized image-to-image gap.
Leyard® WallDirector™ Software

Clarity Matrix G3 introduces a new intuitive and powerful software tool to simplify installation, configuration and operation of your video wall. With Leyard WallDirector Software, simple one button presets allow users to:

- Set-up and configure a video wall
- Recall windowing layouts
- Drag and drop sources on the video wall canvas
- Easily manipulate the window size and position
- Capture the health status of all video wall components in a centralized, convenient location

Advanced Video Wall Processing

Clarity Matrix G3 delivers extensive and flexible video wall processing options to display sources on the video wall. With Planar® Big Picture Plus™ Video Wall Processing, Clarity Matrix G3 allows sources to be scaled across the entire video wall or any section of the video wall. To simplify Planar Big Picture Plus set-up, Clarity Matrix G3 has position sensors built into the LCD that determine its location within the array and scale the sources across the video wall, saving hours of set-up time.

Planar Big Picture Plus Processing allows for ultra-high resolution content up to 4K, to be spread over multiple displays at native resolution. For more complex configurations, Clarity Matrix G3 supports all leading image processing and digital signage software solutions including the Clarity® Visual Control Station™ (VCS™) Video Wall Processor.

Mission Critical Design

Clarity Matrix G3’s unique architecture provides a mission-critical design with hot swappable redundant power supplies, redundant AC input circuitry, reduced thermal stress and health and status monitoring capabilities. Clarity Matrix G3 adds n+1 hot swapping capabilities with the Leyard Remote Power Supply (RPS) so in the event of failure, the video wall remains operational without disruption.

For government and military customers delivering highly sensitive information, the Clarity® Matrix® Fiber Video Extension option provides a more secure and longer distance option for extending the video signal from Clarity Matrix G3 off-board electronics to Clarity Matrix G3 displays.
### CLARITY MATRIX G3 LCD VIDEO WALL SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>MX55X</th>
<th>LX55X</th>
<th>MX55U</th>
<th>LX55U</th>
<th>MX46X</th>
<th>LX46X</th>
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<tbody>
<tr>
<td>Diagonal</td>
<td></td>
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<td></td>
<td>46in (1168.4mm)</td>
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<tr>
<td>Display Dimension, including mount</td>
<td>1212 x 682 x 90mm (47.72 x 26.85 x 3.54in)</td>
<td>1022.9 x 577.5 x 91mm (40.24 x 22.70 x 3.6in)</td>
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<tr>
<td>Brightness (cd/m sq)</td>
<td>800 nits</td>
<td>500 nits</td>
<td>800 nits</td>
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<td>800 nits</td>
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<tr>
<td>Tiled Bezel Width</td>
<td>1.7mm (0.06in)</td>
<td>1.7mm (0.06in)</td>
<td>3.7mm (0.15in)</td>
<td>3.7mm (0.15in)</td>
<td>1.7mm (0.06in)</td>
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<td>3.7mm (0.15in)</td>
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<tr>
<td>Heat Load</td>
<td>850BTU/hr</td>
<td>602BTU/hr</td>
<td>832BTU/hr</td>
<td>580BTU/hr</td>
<td>606BTU/hr</td>
<td>TBD</td>
<td>522BTU/hr</td>
<td>426BTU/hr</td>
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<td>Display Weight, including mount</td>
<td>26kg (56lb)</td>
<td>26kg (56lb)</td>
<td>26.8kg (59lb)</td>
<td>26.8kg (59lb)</td>
<td>19.1kg (42lb)</td>
<td>19.1kg (42lb)</td>
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<td>Mounted Depth, wall to display front</td>
<td>91.4mm (3.6in)</td>
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<td>LCD Technology</td>
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<td>Display Resolution</td>
<td>1920 x 1080</td>
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<td>Contrast Ratio</td>
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<td>Full Viewing Angle</td>
<td>178°</td>
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<td>Backlight Sensing and Reporting</td>
<td>At display level</td>
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<tr>
<td>Display Module Position Sensing</td>
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<td>Acoustic Noise</td>
<td>Fanless operation at the display</td>
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<tr>
<td>Operating Temperature/Humidity (degrees F/C)</td>
<td>5° to 40° C</td>
<td>41° to 104° F</td>
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<td>Protective Glass</td>
<td>Planar ERO technology (Optional)</td>
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<tr>
<td>Regulations</td>
<td>Complies with EN60950, FCC Class A, CISPR22/85, EC, EU RoHS, TAA Compliant</td>
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</table>

### MOUNTING

- EasyAxis Mounting System: 1 per display included | VESA hole pattern available (Optional)
- Americans with Disability Act (ADA) Compliance: Yes, less than 4in (101.6mm) clearance from wall
- Orientation: Landscape or Portrait
- Floor Standing Mount Bases: Optional
- In-Wall Service: Front and rear
- Display Module Position Adjustment: 6-axis integrated

### REMOTE POWER SUPPLY

- Model: RPS110
- Type: 1RU rack mount; 19in (482.6mm) rack
- Line Voltage: 100-240 Volts AC autoranging
- Power Output: 1200W per output
- Power Supply Configurations: 1, 2 or 3 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 Wall: 200ft (60m) standard, 500R (152.4m) maximum

### VIDEO CONTROLLER MODULE

- Type: 1U rack mount controller drives up to 4 panels
- Inputs: 4 HDMI 2.0 (w/ HDCP 2.2); 1 DisplayPort 1.2 Input/Output
- Image Scaling: Planar Big Picture Plus Processing; PIP; 4K@60Hz upscaling and downscaling
- Mullion Compensation: Integrated with pixel by pixel adjustments
- Control: IR Remote Control, RS232, USB, Network, WallDirector software
- Controller Status: Diagnostic LEDs, health monitoring and alerts
- Maximum Distance from LCD: 200ft (60m)

### FIBER VIDEO EXTENSION MODULE OPTION

- Type: 1U rack mount module drives up to 4 panels
- Fiber Optic Connection Type: SFP multi-mode transceivers supports distances up to 1000 ft (300m) from video wall. Compatible with single-mode transceivers supporting up to 10k from the wall. (Single-mode transceivers not provided)
- USB Extension: USB-B @ module; USB-A @ panel
- IR Remote Extension: Embedded
- Power: AC Power Adapter; 100-240VAC ± 10%, 47 to 63 Hz; 50W

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