LED Display Wall
[120 Series High-Quality, Durable, Rear-projection Display Wall Cubes]
New Wide-format LED Display Wall Cubes
Guarantee High Performance and Quality

Combining long-life LED light source and DLP™ imaging technology designed to realize reliable and durable visual display for true 24/7 continuous use.

Introducing the latest addition to our 120 Series line of display wall cubes,

furthering our commitment and enhancing our ability to offer custom solutions to suit your mission-critical control center applications.

Smart 7 ~ Cutting-edge Features for High-performance, High-quality Large Display Wall Systems

The key to visual communications can be found in Mitsubishi Electric’s Smart 7 technologies, the core concept behind display wall design at Mitsubishi Electric. These advanced cutting-edge technologies are incorporated in all 120 Series products, ensuring innovative display solutions for command and control room applications.

New 62" and 72" cubes in 16:10 wide-format broaden our wide-screen cube lineup to meet your critical applications

Our current lineup now offers 16:9 aspect cubes available in 60- or 70-inch displays in full HD resolution, as well as 16:10 aspect cubes available in 62- or 72-inch displays in new WUXGA resolution, allowing you to easily build the system that best matches your application needs and requirements. Two screen options are offered as well, Black Stripe (standard) and Cross-lenticular, which vary in brightness and viewing angle capabilities. This expanded range of choices gives users more flexibility in creating the optimal system to match the application and installation environment.

*All Mitsubishi Electric display wall cubes are manufactured using seismic simulation which was performed at the product design stage.

[Images of display wall cubes and applications]
DLP™ Imaging Technology for the Ultimate in High-quality Digital Displays

At the core of Mitsubishi Electric projection technology is the DLP™ digital micromirror imaging chip built with minute mirrors arranged at multiple points on a silicon base using the most advanced semiconductor fabrication technology available. Each micromirror corresponds to a single pixel or element of the picture. Images are produced by maneuvering these micromirrors electronically.

Consistent High-quality Images

Full digital control of color and gradation at every micromirror results in images with consistently high picture quality and uniform color and brightness throughout the display wall, from the center point to the edges of each display.

Higher Reliability

The DLP™ chip is a reflective device with a very high light reflection ratio, thus the chip itself retains very little to no heat. This characteristic allows still images, text data and other fixed patterns to be displayed for long periods of time without image retention or burn-in that tends to occur with other display technologies or image processing methods.

LED Light Source Advantages

Virtually Maintenance Free

An LED light source has an average service life that is approximately 10 times longer than that of conventional ultrahigh-pressure mercury lamps. Combined with the 100,000hr, ultra-long service life of our engine fans, Mitsubishi Electric LED display wall cubes is more than 10 years, even when operated continuously on a 24/7 basis.

Choice of Four Brightness Modes

Equipped with an original LED power control circuit, each display wall cube can be set to operate in one of four modes. As a result, command and control room operators can select the brightness level appropriate for their environment and user, avoiding user eyestrain over long periods of viewing time.

Wider Color Reproduction Range

The LED light source offers a much wider range of color reproduction, allowing a larger array of vivid colors to be used for the icons and symbols frequently used in command and control rooms. This ultimately makes it easier for command and control room operators to share information.

Multiple Picture Settings

Mitsubishi Electric LED display wall cubes have multiple picture settings, giving customers the freedom to choose the best setting suitable for each primary color (that use a color and brightness maintenance algorithm). Each RGB LED maintains high image quality even if a light element malfunctions, thereby enhancing reliability for various mission-critical environments.

Proven Performance

Over 78,000 Mitsubishi Electric display wall products have been installed in mission-critical command and control rooms around the world. Our LED projection engines and display wall cubes are designed and developed with the deep understanding and experience we gained from market feedback and from market feedback and closely listening to the diversified needs of our customers.

Dynamic Color & Brightness Balancing

Each display wall cube is equipped with three built-in sensors (one for each primary color) that use a color and brightness maintenance algorithm. The sensors continually monitor the individual red, green and blue output of each display wall cube, share the data with adjacent cubes, and adjust performance automatically to produce extremely accurate colors and brightness balance over the entire display. These features make it possible to maintain image uniformity on multiscreen configurations over long periods of operation without using external software or third-party calibration computers. Furthermore, the newly developed Y2 color sensor allows multiple screens to be adjusted precisely and easily to a desired color tone. Time-based color changes in multiscreen configurations are also minimized so that image quality is maintained over a long period of time.

Efficient Air Cooling System Realizes Higher Reliability

The system has an optimal airflow path and cooling module design that are perfectly matched to the characteristics of the LED light source.

Redundancy

Built-In Features that Ensure Reliable, Consistent, Continuous Operation of Mission-critical Systems

Redundant Power Supply

A redundant power supply system can be configured by adding a second (optional) power source. Even if one power supply fails, power will continue to be supplied from the other power supply, so displays continue to be operational with no downtime.

Redundant LED

Mitsubishi Electric’s original LED light source utilizes the ideal combination of fully redundant RGB LEDs and an air cooling system, creating perfect display solutions for 24hr operations. Each RGB LED maintains high image quality even if a light element malfunctions, thereby enhancing reliability for various mission-critical environments.

Smart Switch

A “Smart Switch” function has been added to Mitsubishi Electric display wall cubes to deliver the signal redundancy necessary for mission-critical applications that require round-the-clock operation. If a signal is unexpectedly lost, the display wall automatically switches to the alternative signal source, from port-to-port within seconds after the “no signal” status is detected. This function makes it possible for users to minimize downtime in the event of a signal source failure.

Auto-balancing

Brightness and Color Uniformity is Evenly Maintained Across Multiple Screens, Making the Entire Display Visually Seamless

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Mitsubishi Electric offers a wide lineup of display cubes that are accessible from the front, including 60, 62, 70, and 72-inch models. The specially designed slider-and-HF screen and ventilation system allow all installation and maintenance work to be completed from the front. As a result, no maintenance space is needed behind the display wall cubes even if they are tiled as a display wall installation.

**Intelligence**

High-resolution Images Created with Mitsubishi Electric’s New Optical Engine and Optimal Image-quality Circuit Design

**Color Space Control Circuit**

To compensate for the color and brightness inconsistencies on display wall cubes, Mitsubishi Electric has developed an original Color Space Control Circuit that balances and blends colors. The ratios of each primary color (red/green/blue) and other color mixtures are adjusted to provide consistent images from edge to edge on multi-screen configurations.

**Digital Gradation Circuit**

Loss of brightness at the screen edges is no longer a problem owing to Mitsubishi Electric’s innovative digital gradation circuit. Brightness is balanced and blended across the entire wall without using any size or displayed across the entire wall without using an external computer. In addition to the background image (desk), a window can be displayed anywhere on the screen using an external computer. Used in combination with Mitsubishi Electric’s D-VALL Control Software Suite, the entire imaging system can be controlled intuitively from a user-friendly graphical user interface.

**Flexibility**

Equipped with Intel® OPS Slot for On-board Computer and Other Peripheral Equipment Installation

The 120 Series display wall cubes are equipped with an open pluggable specification (OPS) slot. Simply install the optional computer board to expand the scope of applications.

**Internal Processing**

Builtin Processor

The 120 Series display wall cubes are equipped with an internal image data processing function. In addition to the background image (desk), a window can be displayed anywhere on the screen using an external computer. Used in combination with Mitsubishi Electric’s D-VALL Control Software Suite, the entire imaging system can be controlled intuitively from a user-friendly graphical user interface.

- No space is needed behind a display wall.
Optional Cross-lenticular screen upon special request

<table>
<thead>
<tr>
<th>Model Name (w/Cross-lenticular screen)</th>
<th>60HE120L2</th>
<th>60HEF120L</th>
<th>70HE120L2</th>
<th>70HEF120L</th>
<th>60WE120L2</th>
<th>60WEF120L</th>
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<tbody>
<tr>
<td>Model No. [projection engine]</td>
<td>SC-60HE120L</td>
<td>SC-60HEF120L</td>
<td>SC-70HE120L</td>
<td>SC-70HEF120L</td>
<td>SC-60WE120L</td>
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<tr>
<td>Brightness with Cross-lenticular screen</td>
<td>Bright mode</td>
<td>400</td>
<td>200</td>
<td>500</td>
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<td>500</td>
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<tr>
<td></td>
<td>Normal mode</td>
<td>360</td>
<td>230</td>
<td>420</td>
<td>230</td>
<td>420</td>
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<tr>
<td></td>
<td>Eco mode</td>
<td>210</td>
<td>170</td>
<td>280</td>
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<tr>
<td></td>
<td>Advanced Eco mode</td>
<td>90</td>
<td>70</td>
<td>100</td>
<td>70</td>
<td>100</td>
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<tr>
<td>Viewing angle with Cross-lenticular screen</td>
<td>Horizontal</td>
<td>1/2 gain±35deg</td>
<td>1/10 gain±57deg</td>
<td>1/2 gain±33deg</td>
<td>1/10 gain±55deg</td>
<td>1/2 gain±33deg</td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td>1/2 gain±35deg</td>
<td>1/10 gain±57deg</td>
<td>1/2 gain±33deg</td>
<td>1/10 gain±55deg</td>
<td>1/2 gain±33deg</td>
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<tr>
<td>Screen-to-screen gap</td>
<td>Horizontal</td>
<td>0.2 - 1.0mm[*2]</td>
<td>1.0 - 2.3mm[*2]</td>
<td>0.2 - 1.0mm[*2]</td>
<td>1.0 - 2.3mm[*2]</td>
<td>0.2 - 1.0mm[*2]</td>
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<tr>
<td></td>
<td>Vertical</td>
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<th>70WF120L</th>
<th>60WFE120L</th>
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<td>SC-62WFE120L</td>
<td>SC-72WF120L</td>
<td>SC-72WF120L</td>
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<tr>
<td>Brightness with Cross-lenticular screen</td>
<td>Bright mode</td>
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<td>590</td>
<td>440</td>
<td>590</td>
</tr>
<tr>
<td></td>
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<td></td>
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**16:9 wide format**  * Figures in (  ) are for 120 Series.

**16:10 wide format**  * Figures in (  ) are for 120 Series.

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Eco Changes is the Mitsubishi Electric Group’s environmental statement, and expresses the Group’s stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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www.MitsubishiElectric.com/products/vis/displaywalls

*The design and measurements are subject to change without notice.

*All pictures shown are for illustrative purposes only.

*When Cross-Lenticular Screens are used, each screen size will be approximately 0.5mm wider and higher than the dimensions of the standard Black Stripe Screen.

*Operating temperature range is 20-30°C.