New Wide-format LED Display Wall Cubes Guarantee High Performance and Quality

Energy-saving LED light source and DLP® projector system incorporated to realize more advanced visual communications. Display wall cubes with wide formats of 16:9 and 16:10 newly added to the product line-up, further enhancing our ability to tailor solutions to suit diversified customer applications.

Smart 7 ~ New Functions for Market-leading 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 70 Series products, ensuring innovative display solutions for command and control room applications.

Largest LED Display Wall Cube Line-up Ever

An expansive line-up is now available including 62 and 72-inch 16:10 wide models; a 70-inch 16:9 wide model; and 50, 60, 67 and 80-inch 4:3 models. Available resolutions include XGA, SXGA+, Full HD(1080P) and WUXGA. Three screen options are offered as well:

- 16-10 wide format
- 16-9 wide format
- 4:3 format

LED Light Source Advantages

- **Virtually Maintenance-free**: A 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, ultralong service life of our fans, the average service life of Mitsubishi Electric LED display wall cubes is more than 10 years, even when operated 24/7.

- **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 (for WE, HE and PE models): Normal, Bright, Eco and Advanced Eco. As a result, command and control room operators can select the brightness according to the environment and use.

- **Proven Performance**: Over 55,000 Mitsubishi Electric DLP® projector systems have been delivered to mission-critical command and control rooms around the world. Our new LED projection engines are developed through the deep understanding and experience gained from the market and listening closely to customers’ needs.

- **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 according to the application and content being displayed. Optimized Color is best for applications in broadcasting studios.

- **Eco-conscious**: The LED light source eliminates the use of mercury, and thus helps to preserve the environment. At the same time, the Eco mode setting contributes to lower power consumption and CO2 emissions from display wall cubes that use a conventional ultrahigh-pressure mercury lamp.
High Contrast and Brightness

With newly developed optical systems that are compatible with LED light sources, the brightness uniformity is even more improved. For wide-screen models higher than 150" (XE/HE models) and higher brightness 1100 cd/m² (50"WUXGA, 62"WUXGA, and 72"WUXGA) at XE models are achieved. For 4:3 models, higher brightness (62WE78/62WEF78) is even more improved. For PE/XE models, brightness is 100% tuned for LED backlight.

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. These features make it possible to maintain image uniformity on multi-screen configurations. Liquid Cooling System

Pump/Drive parts are required to circulate the liquid
Complex system requiring liquid reservoir and tube
Coolant must be replaced frequently due to deterioration and loss
Pump has a short service life (approx. 50,000hrs)

Highly efficient, compact cooling module
No moving parts that require frequent replacement
Long service life

*The cooling module consists of a highly efficient cooling pipe and aluminum plate.

Intelligence

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

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Auto-balancing

Brightness and Color Uniformity Maintained between Multiple Screens Realizing More Expressive Images

Dynamic Color & Brightness Balancing

Each display wall cube is equipped with three built-in sensors (one for each primary color) that sense a color and brightness maintenance algorithm. The sensors continuously monitor the individual red, green, and blue output of each display wall cube, share the data with adjacent cubes, and adjust output automatically. This function makes it possible to maintain image uniformity on multi-screen configurations over long periods of operation without using external software or a computer.

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 color blending and superior uniformity 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 distributed evenly across the screen, ensuring the reproduction of sharp, vivid images from edge to edge on multi-screen configurations.

More Ports and Increased Input Resolution Options

The number of input boards has been increased for compatibility with a wide range of input signals. Compatibility with input resolution is also increased, now including up to WXGA [1920×1200].

Internal Processing

Built-in Processor

The 70 Series units are equipped with an internal data processing function. Up to four windows (71) or two windows (72) per cube can be displayed when using the optional input boards. Windows can be of any size or displayed across the entire wall (up to six windows (71) or three windows (72) per cube is possible if a “desktop” image is not present). Multiple windows can be moved freely without the need of an external computer. Used in combination with Mitsubishi Electric’s D-wall software suite, the entire imaging system can be controlled intuitively from a user-friendly graphical user interface.

Redundancy

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 (either post- or preselected) within seconds after the “no signal” status is detected. This function makes it possible for the user to minimize downtime in the event of a signal source failure.

Durability

Air Cooling System for LED Light Source

Efficient Air Cooling System Realizes Higher Reliability

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High-reso...
### Cross Lenticular Screen (Option for all models):

<table>
<thead>
<tr>
<th>Model</th>
<th>Screen size (inches)</th>
<th>Brightness (Typ.)</th>
<th>Black Bead Screen</th>
<th>Cross Lenticular Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>67XEF</td>
<td>67</td>
<td>50 cd/m²</td>
<td>Front</td>
<td>2000 cd/m²</td>
</tr>
<tr>
<td>67XE</td>
<td>60</td>
<td>50 cd/m²</td>
<td>Rear</td>
<td>2000 cd²</td>
</tr>
<tr>
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<td>50</td>
<td>50 cd/m²</td>
<td>Front</td>
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</tr>
<tr>
<td>80PE78</td>
<td>67</td>
<td>50 cd/m²</td>
<td>Front</td>
<td>2000 cd/m²</td>
</tr>
<tr>
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<td>60</td>
<td>50 cd/m²</td>
<td>Rear</td>
<td>2000 cd²</td>
</tr>
<tr>
<td>70HEF78</td>
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### Abbreviated model name:

- **Model Screen size (inches)**
- **Brightness (Typ.)**
- **Black Bead Screen**
- **Cross Lenticular Screen**

### Screen size:

- **60XEF**
- **60XE**
- **60PE78**
- **67PE78**
- **70HEF78**
- **72WE78**
- **62WEF78**
- **62WE78**

### Brightness (Typ.):

- **45 cd/m²**
- **90 cd/m²**
- **170 cd/m²**
- **360 cd/m²**
- **530 cd/m²**
- **900 cd/m²**
- **1800 cd/m²**
- **2400 cd²**
- **3600 cd²**

### Functions:

- **Cross Lenticular Screen**
- **Black Bead Screen**
- **Screen size**
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.