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

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 that 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.

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 ultralow-pressure mercury lamps. Combined with the 100,000hr, ultra-long 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: Normal, Bright, Eco or Advanced Eco. As a result, command and control room operators can select the brightness according to the environment and use.

Proven Performance
Over 61,000 Mitsubishi Electric display wall products 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 reproducing natural looking colors. Vivid Color realizes more striking colors in icons/symbols, and Low Color Temperature is ideal for backdrop 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 than display wall cubes that use a conventional ultralow-pressure mercury lamp.

Largest LED Display Wall Cube Line-up Ever

An expansive line-up is now available including 62 and 72-inch 16:10 wide models, 60 and 70-inch 16:9 wide models, 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: Black Strip (standard), Cross-lenticular and Black Bead, which vary in brightness and viewing angle capabilities.
New Optical Engine and Image-quality Circuit Design

High-resolution Images Created with Mitsubishi Electric's

Air Cooling System for LED Light Source

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)

Efficient Air Cooling System Realizes Higher Reliability

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

A newly developed optical system fully tested to match the LED light source has been introduced, improving brightness uniformity even further. Higher contrast and brightness have also been realized for the wide models: 1,500:1 contrast for WE and HE; and realized for the wide models: 1,700:1 has been realized for PE, 1,600:1 has been possible to maintain image uniformity on multi-screen configurations. 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.

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, visual images from edge to edge on multi-screen configurations.

Digital Gradation Circuit

To compensate for the color and brightness inconsistencies on display wall cubes, Mitsubishi Electric has developed the digital gradation circuit. This circuit adjusts the color and brightness of the screen edges to provide a smooth transition between the screen center and edges. This results in a seamless viewing experience on multi-screen displays.

High Contrast and Brightness

Color Space Control Circuit

As expressed by the black line, brightness and white balance of all four screens are controlled continuously.

Auto-balancing

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 continuously 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 multi-screen configurations over long periods of operation without using external software or a computer.

More Expressive Images

Reduced Noise

Redundant LED

A “Smart Switch” function has been added to Mitsubishi Electric display wall cubes to provide 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 “port-to-port” or “board-to-board”) 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.

New Input Boards

The number of input boards has been increased for compatibility with a wider range of input signals. Compatibility with input resolution has also been increased, now including up to WUXGA (1920×1200).

The 70 Series units are equipped with an internal processing function. Up to four windows of video can be displayed across the entire wall (up to six windows or three per window 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.

Ideal Features for Mission-critical Environments

More Ports and Increased Input Resolution Options

Easy Set-up

Full Front Access for Simple Maintenance

Mitsubishi Electric offers a wide lineup of front-access products. Front access is available for 60” (Full HD (1080P)) and 70” (Full HD (1080P), 62” (WUXGA) and 72” (WUXGA) models, as well as 4:3 models (50”, 60” and 67”, both XGA and SXGA). The specially designed slide-in/health screen and ventilation system allows 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.

Durability

Air Cooling System

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

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## Operating conditions

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<tbody>
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## Screen unit

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## Signal input terminal

**Digital RGB input board (option)**

- **Input signals**: HD-SDI (SMPTE 292M): 1080i@50/59.94/60Hz, 25 - 162MHz
- **Function**: Image scaling (shrink and zoom)
- **Input terminal**: 3BNC x2

**Analog RGB input board (option)**

- **Input signals**: Analog RGB (S-Video: 1.0 Vp-p, 75Ω, 0°), Video: 1.0 Vp-p, 75Ω, 0°
- **Function**: Image scaling (shrink and zoom)
- **Input terminal**: S-Video: 3BNC x2, Video: 3BNC x2

## Digital/Analog RGB input board (option)

- **Input signals**: HDMI: 1920 x 1200 @ 60Hz, 1080i@50/60Hz
- **Function**: Image scaling (shrink and zoom)
- **Input terminal**: HDMI: 1.4a x1, DVI-D x1

## Daisy chain board (option)

- **Input signals**: RJ45: 10/100Base-TX
- **Function**: Daisy chain connection
- **Input terminal**: RJ45: 1.0 x1

## IR receiver

- **Function**: Remote control
- **Input terminal**: SC-6075U (1.0 x1)

## Model number

- **Model number**: SC-6075U
- **Model number**: SC-6075L

## Optional Cross-lenticular Screen upon special request

- **Screen material**: Cross-lenticular (0.2 - 2.0mm)
- **Function**: 1/2 gain at 25°, 1/10 gain at 75°

## Black Bead Screen (option for 4:3 models)

- **Screen material**: Black Bead (0.2 - 1.5mm)
- **Function**: 1/2 gain at 25°, 1/10 gain at 75°
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.

for a greener tomorrow