

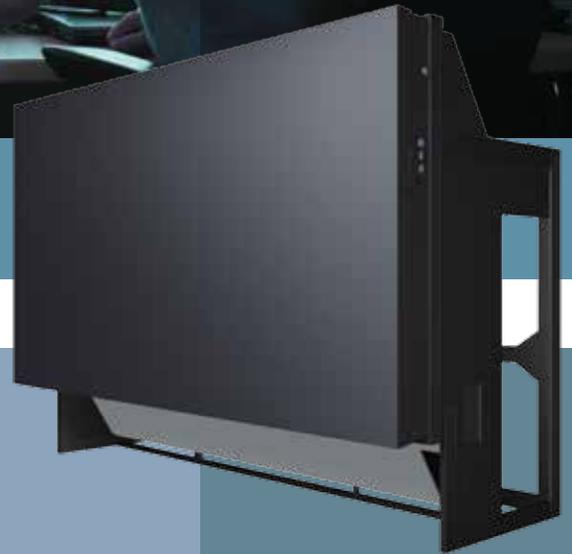
Slim Cube Display Wall System



LED Display Wall

VS-60HS12U

Space-Saving Slim Depth 60" HD Display
Cubes for 24/7 Continuous Operations



New space-saving slim-depth rear-projection display wall cube design lets you achieve true 24/7 continuous operations. No more image burn-in or retention issues.

Energy-saving LED light source and DLP™ projector system incorporated to realize more advanced visual communications.

With state-of-the-art Mitsubishi Electric imaging technology, market-leading display wall cubes provide cutting-edge display solutions for mission-critical environments.

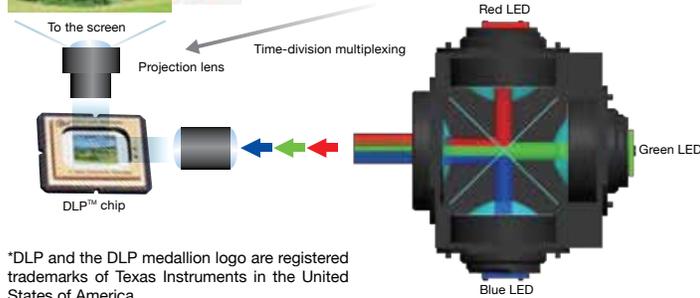


VS-60HS12U

DLP™ Technology for the Ultimate in High Quality and Digital Control Energy



At the core of Mitsubishi Electric projection technology is the DLP™ chip: a display device with minute metal 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.



*DLP and the DLP medallion logo are registered trademarks of Texas Instruments in the United States of America.

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, even between the center and edges of the display wall.

Higher Reliability

The DLP™ chip is a reflective device with a very high reflection ratio, thus very little energy remains on the chip itself. 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 occurs with other image processing methods.

Focusing on 24/7 Mission-critical Environments

No burn-in and near-zero bezel design using DLP™ technology

The 0.65 DLP™ chip is a reflective imaging device that is not affected by heat absorption, even when projecting a fixed pattern over a long period of time. Its durability and imaging quality are the best option for control room displays, especially for 24/7 operating environments.



Burn-In



No Burn-In

Latest Mitsubishi LED Light Source Technology Equipped

Optimized design for long-term use

The average life of a LED light source is approximately five times longer than that of conventional ultra high-pressure mercury lamps.

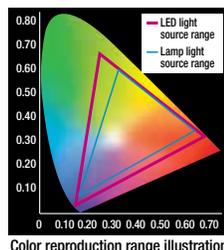
Mitsubishi Electric's original efficient air cooling system has an optimal airflow path and cooling module design that are perfectly matched to the characteristics of the LED light source.

Liquid Cooling System
Pump/Drive parts are required to circulate the liquid
Complex system requiring liquid reservoir and tubes or pipe fittings
Coolant must be replaced frequently due to deterioration and loss. Pump has a short service life (approx. 50,000hr)

Air Cooling System
Highly efficient, compact cooling module
No moving parts, less frequent or no replacements required
Longer service life

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.



Choice of Three Brightness Modes

Equipped with an original LED power control circuit, each display wall product can be set to operate in one of three operating modes, Bright, Normal and Eco, that is most appropriate for the intended application.

Proven Performance

Over 72,000 Mitsubishi Electric display wall products have been installed in mission-critical command and control rooms around the world. Our new LED projection engines are developed through our deep understanding and experience gained from the market and listening closely to our customers' needs.

*As of November 2013, in-house research.

Eco-conscious

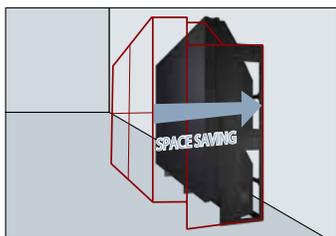
The LED light source eliminates the use of mercury, and thus helps to preserve the environment. At the same time, the Eco mode setting contributes to lower power consumption and CO2 emissions than display wall cubes that use a conventional ultra high-pressure mercury lamp.



Displays Space-saving Design for Applications with Limited Space

New slim-depth design for 60" Full HD Cube

A new optical engine with a shorter-throw lens is designed to optimize the image of our new 60" full HD display while reducing the depth by up to 40% compared to our previous models with the conventional rear projection lens (Compared to VS-62WEF78).



Full front-access design allows easy service, maintenance, and installation

All installation, service and maintenance work can be performed from the front. In addition to the slim design, front accessibility saves space while still offering the benefit of rear-projection technology.

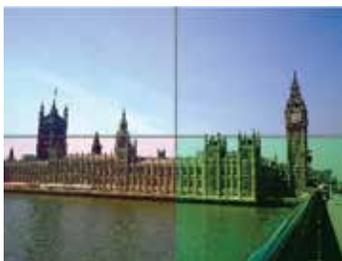


*For ventilation requirements, leave a space of 5cm or 2 inches at the back of the display unit, against the wall.

Equipped with Original Mitsubishi Electric Imaging Technologies for Creating and Sustaining the Best Images on Multiple Displays

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.



without Color Space Control



with Color Space Control

Digital Gradation Circuit

Loss of brightness at the screen edges is no longer a problem due 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.



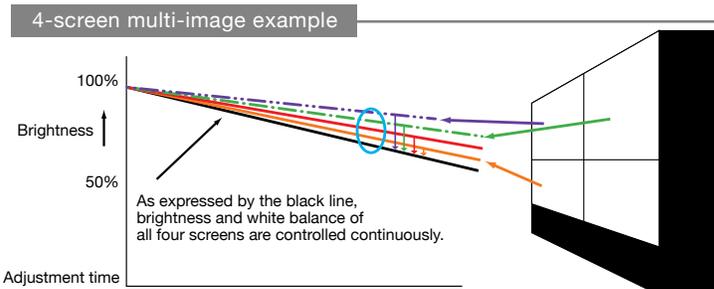
without digital gradation



with digital gradation

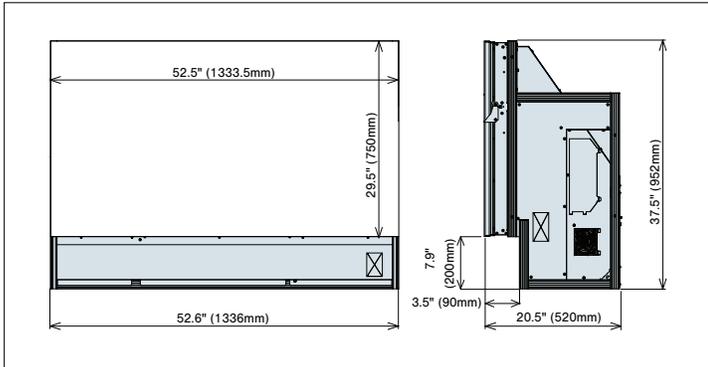
Dynamic Color & Brightness Balancing

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



Specification

Model Name		60HS12U
Screen Size		60"
Native Resolution (*1)		Full HD (1920 x 1080 pixels)
Accessibility		Front
Technology		DLP™ technology(0.65" DLP™ 1 chip)/DarkChip3™/BrilliantColor™(*2)
Brightness	Bright Mode	700cd/m2 (Typ.)
	Normal Mode	560cd/m2 (Typ.)
	Eco Mode	280cd/m2 (Typ.)
Viewing Angle	Horizontal	1/2 gain: ±35 deg, 1/10 gain: ±57 deg
	Vertical	1/2 gain: ±10 deg, 1/10 gain: ±28 deg
Contrast Ratio		1000:1(Typ.)
Screen-to-Screen Gap	Horizontal	1.0-2.5mm(*3)
	Vertical	1.0-2.0mm(*3)
Light Source		LED (RGB)
	Estimated Lifetime (*4)	60,000hr
Control Signal Input		RS-232C: Dsub9
		LAN: RJ45(10BASE-T/100BASE-TX)
		Dsub9 x 2(IN/OUT)
		Mitsubishi Original Control Link
		Wire remote: F3.5 Jack
Signal Input Terminal		IR receiver
Signal Input Terminal		DVI-I (digital with HDCP, analog) x1
Power Consumption	Bright Mode	123W (Typ.)
	Normal Mode	96W (Typ.)
	Eco Mode	61W (Typ.)
Voltage Range		100-240VAC±10%,50/60Hz±1Hz
Operating Current (100/240V)		1.7A/0.8A



(*1) Including overscan image

(*2) DLP™, DarkChip3™ and BrilliantColor™ are trademarks of Texas Instruments.

(*3) Differs according to configuration and environment. The maximum screen-to-screen gap size is recommended for large display walls to allow for screen expansion due to heat and humidity.

(*4) The lifetime of the LED light source is an estimated value, rather than a guaranteed one.



for a greener tomorrow

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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