MITSUBISHI ELECTRIC
Changes for the Better

LED Upgrade Engines

Smart Investment for a Bright Future

Technology

- Redundant LED light source with individual RGB LED's

- Lifetime up to 100,000 hrs. (11.3 years) in 24/7 mode

- Highly reliable and efficient air cooling system (no liquid)

- Lowest power consumption on the market

- Lowest BTU/hr. in the market

Color space control

- To compensate for the colour and brightness inconsistencies on display wall cubes, Mitsubishi Electric has developed an original Colour Space Control Circuit that balances and blends colours.

- The ratios of each primary colour (red/green/blue) and other colour mixtures are adjusted to provide consistent colour 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 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.
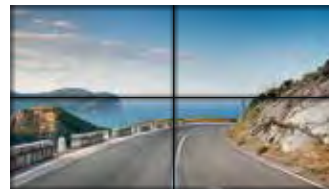
without digital gradation
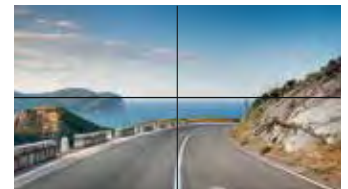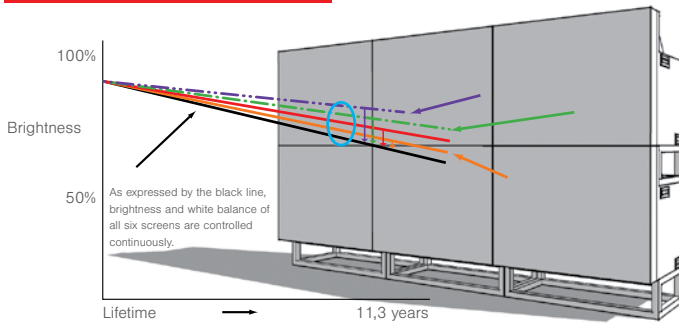
with digital gradation

Dynamic color & brightness

- Each display wall cube is equipped with three built-in sensors (one for each primary colour) that use a colour 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 colours 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.

Extend the life time of your video wall up to 11 years by upgrading your lamp based engine to the latest state of the art LED technology and benefit from a lower investment, virtually no maintenance cost and lower total cost of ownership.


Multi-image example

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

Lifetime → 11,3 years

Low cost of ownership

■ Extend lifetime of your video wall up to 11 years

■ No investment in cabinet, screen, base-frame and cables

■ No deconstruction and reconstruction of the video wall

■ Extend your warranty by 2 years

Improved brightness and color

■ Up to 60% better brightness performance

■ 4 brightness modes compared to 2 in previous lamp based models

■ LED technology produces more intense and saturated colors. The wider range of color reproduction, gives a larger array of vivid colors typically used for the icons and symbols frequently used in command and control rooms.
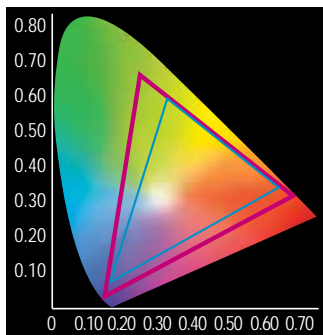
— LED light source
— Lamp light source

Colour reproduction range illustration

Lower operational cost

■ Virtually no maintenance needed

■ No more consumables such as lamps, color wheels and fans

■ Lower power consumption compared to lamp based cubes

■ Choice of four brightness modes. Extremly low power consumption when operating in advanced eco mode.

■ Total power consumption saving calculation =
Difference in Watt x numbers of cubes x 24 hours x 365 days x 11 years

Eco conscious

■ The LED light source eliminates the use of toxic Mercury lamps

■ Lower power consumption of the upgrade engine leads to lower CO2 emissions

Specifications

Model	VS-XE73RU	VS-PE73RU	VS-PE78RU
	Replaces XGA lamp-based engines with XGA LED Engine	Replaces XGA lamp-based engines with SXGA+ LED Engine	Replaces SXGA+ lamp-based engines with SXGA+ LED Engine
Resolution	XGA (1024 x 768 pixels)	SXGA+ (1400 x 1050 pixels)	SXGA+ (1400 x 1050 pixels)
Brightness modus	Bright Mode, Normal Mode, Eco Mode, Advanced Eco Mode	Bright Mode, Normal Mode, Eco Mode, Advanced Eco Mode	Bright Mode, Normal Mode, Eco Mode, Advanced Eco Mode
Brightness 50"	870cd/m² @Bright Mode, 670cd/m² @Normal Mode, 490cd/m² @Eco Mode, 140cd/m² @Advanced Eco Mode	980cd/m² @Bright Mode, 760cd/m² @Normal Mode, 550cd/m² @Eco Mode, 160cd/m² @Advanced Eco Mode	1620cd/m² @Bright Mode, 1140cd/m² @Normal Mode, 770cd/m² @Eco Mode, 300cd/m² @Advanced Eco Mode
Brightness 67"	440cd/m² @Bright Mode, 340cd/m² @Normal Mode, 250cd/m² @Eco Mode, 70cd/m² @Advanced Eco Mode	500cd/m² @Bright Mode, 390cd/m² @Normal Mode, 280cd/m² @Eco Mode, 80cd/m² @Advanced Eco Mode	830cd/m² @Bright Mode, 580cd/m² @Normal Mode, 390cd/m² @Eco Mode, 150cd/m² @Advanced Eco Mode
Contrast ratio	1700 : 1	1600 : 1	1600 : 1
Light source	Redundant LED (RGB)	Redundant LED (RGB)	Redundant LED (RGB)
Light source lifetime	100.000 hrs. in Advanced Eco Mode, 80.000 hrs. in Bright-, Normal-, Eco Mode	100.000 hrs. in Advanced Eco Mode, 80.000 hrs. in Bright-, Normal-, Eco Mode	100.000 hrs. in Advanced Eco Mode, 80.000 hrs. in Bright-, Normal-, Eco Mode
Power consumption	79W@Advanced Eco Mode / 102W@Eco Mode 127W@Normal Mode / 174W@Bright Mode	93W@Advanced Eco Mode / 117W@Eco Mode 144W@Normal Mode (typ.) / 187W@Bright Mode	88W@Advanced Eco Mode / 108W@Eco Mode 147W@Normal Mode (typ.) / 233W@Bright Mode
Thermal dissipation	270 BTU/h@Advanced Eco Mode / 346 BTU/h@Eco Mode 434 BTU/h@Normal Mode / 594 BTU/h@Bright Mode	318 BTU/h@Advanced Eco Mode / 399 BTU/h@Eco Mode 492 BTU/h@Normal Mode / 638 BTU/h@Bright ModE	300 BTU/h@Advanced Eco Mode / 369 BTU/h@Eco Mode 502 BTU/h@Normal Mode / 795 BTU/h@Bright Mode
Cooling System	Air cooling system with efficient cooling pipe and aluminum plate (No liquid)	Air cooling system with efficient cooling pipe and aluminum plate (No liquid)	Air cooling system with efficient cooling pipe and aluminum plate (No liquid)
Control signal input	RS232C: D-Sub 9pins, LAN: RJ45 x 1, D-Sub 9 pins x 2 (input, output) Mitsubishi original control Link, Wire remote: F3.5 Jack, IR Receiver	RS232C: D-Sub 9pins, LAN: RJ45 x 1, D-Sub 9 pins x 2 (input, output) Mitsubishi original control Link, Wire remote: F3.5 Jack, IR Receiver	RS232C: D-Sub 9pins, LAN: RJ45 x 1, D-Sub 9 pins x 2 (input, output) Mitsubishi original control Link, Wire remote: F3.5 Jack, IR Receiver
Input board slot	Input board slot for optional input board x2	Input board slot for optional input board x2	Input board slot for optional input board x2

Applicable Models

- VS-50XL20U
- VS-50XL21U
- VS-50XL50U
- VS-50XLW20U
- VS-50FD10U
- VS-50XLW50U
- VS-50XLF20U
- VS-50XLF50U
- VS-50XLWF50U
- VS-67XL20U
- VS-67XL21U
- VS-67XL50U
- VS-67XLW20U
- VS-67XLW50U
- VS-67XLF50U
- VS-67XLWF50U
- VS-67FD10U
- VS-50PH50U
- VS-67PH50U
- VS-67PHF50U
- VS-80PH40U

* Please contact your local sales office if the model is not listed above.
* Our replacement engine can be compatible with video wall cubes from other manufacturers. Ask your system integrator for more information.
* Some remedial work may be required in certain installations.
* In most cases, existing cabinets, screens, base frames, cladding, etc can be maintained, however, this may vary depending on the current installation and the specific model.

Optional Accessories

Digital/Analog RGB input board VC-B70DA2

Digital RGB input board VC-B70D2

Video input board VC-B70V2

3G-SDI input board VC-B70SD1

Daisy chain board VC-B70DC

Remote control unit R-XL51TX 1

6-Axis Adjusment tool S-A70E

6-Axis adjuster

LED unit S-74LE

for a greener tomorrow

eco Changes

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.