

MITSUBISHI ELECTRIC

Display Wall

Screen size		50" diagonal size (1015mm x 761mm)			
Abbreviated model name		50PE	50PEF	50XE	50XEF
Native resolution		SXGA+ (1400 x 1050 pixels)		XGA (1024 x 768 pixels)	
Accessibility		Rear	Front	Rear	Front
Technology		DLPI™ technology / DarkChip3™ / BrilliantColor™			
Brightness	Bright mode	550cd/m² (typ.)		510cd/m² (typ.)	
	Normal mode	450cd/m² (typ.)		420cd/m² (typ.)	
	Eco mode	350cd/m² (typ.)		330cd/m² (typ.)	
Viewability angle	Horizontal	178° (1/2 gain ±36°)			
	Vertical	60° (1/2 gain ±10°)			
Contrast ratio		1900:1 (typ.)		1700:1 (typ.)	
Screen to screen gap		0.2 - 2.0mm (*1)	1.0 - 3.0mm (*2)	0.2 - 2.0mm (*1)	1.0 - 3.0mm (*2)
Light source		LED(RGB)			
Key parts average lifetime	Expected lifetime(*3)	80,000hrs(*4)			
	DLPI™ chip	100,000hrs			
	Cooling fan	100,000hrs			
Control signal input	LAN: RJ45 x1 (10 BASE-T/100 BASE-TX)				
	RS-232C: D-sub 9 pins x1				
	Mitsubishi Electric original control link: D-sub 9 pins x2				
	Wire remote: F3.5Jack x1				
Input board slot for optional input board		IR receiver			
Power consumption (with 1 input board)		3 slots			
AC input voltage	Bright mode	270W (typ.)		220W (typ.)	
	Normal mode	210W (typ.)		160W (typ.)	
	Eco mode	170W (typ.)		117W (typ.)	
Rated current		3.2A		2.7A	
Operation environment	Temperature	10°C -35°C	10°C -30°C	10°C -35°C	10°C -30°C
	Humidity	20%-80% non-condensing			
Weight		71kg / 156lbs	78kg / 172lbs	71kg / 156lbs	78kg / 172lbs
Model number	Engine	VS-FE70U		VS-XE70U	
	Cabinet	S-5070CA	S-5070CAF	S-5070CA	S-5070CAF
Screen		SC-5070U	SC-5070UF	SC-5070U	SC-5070UF

Optional Black Bead Screen upon special request					
Abbreviated model name with optional Black Bead Screen		50PEB	50PEFB	50XEB	50XEFB
Model number for optional Black Bead Screen		SC-5070B	SC-5070BF	SC-5070B	SC-5070BF
Brightness with optional Black Bead Screen	Bright mode	135cd/m² (typ.)		130cd/m² (typ.)	
	Normal mode	110cd/m² (typ.)		100cd/m² (typ.)	
	Eco mode	90cd/m² (typ.)		80cd/m² (typ.)	
Viewability angle with optional Black Bead Screen	Horizontal	178° (1/2 gain ±35°)			
	Vertical	178° (1/2 gain ±35°)			

Analog RGB input board(Optional)	
Model number	
Signal input terminal (Analog RGB)	
RGB input scanning frequency	Signal resolutions
	Horizontal
Pixel clock rate	Vertical
	Horizontal
Functions	

Digital RGB input board(Optional)	
Model number	
Signal input terminal (Digital RGB)	
RGB input scanning frequency	Signal resolutions
	Horizontal
Pixel clock rate	Vertical
	Horizontal
Functions	

Video input board(Optional)	
Model number	
Signal input terminal (Analog video)	
Analog video input signals	
Functions	

Daisy-chain board(Optional)	
Model number	
Signal input terminal	
Signal output terminal	
RGB input scanning frequency	Signal resolutions
	Horizontal
Pixel clock rate	Vertical
	Horizontal
Functions	

SDI input board(Optional)	
Model number	
Signal input terminal	
Input signals	
Signal output terminal	
Gen Lock input	
Functions	

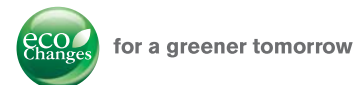
(*1) Depending on configuration and environment.
 2.0mm recommended for large walls to allow for expansion due to heat and humidity.
 (*2) Depending on configuration and environment.
 3.0mm recommended for large walls to allow for expansion due to heat and humidity.
 (*3) The lifetime of LED light source is an expected value, not guaranteed.
 (*4) Expected lifetime: Temperature Condition at Operation is 77°F/25°C. At 95°F/35°C. LED life with Bright mode is 60,000hours.
 (*5) This product is * class 2 * LED product.

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70 Seventy Series:LED

50" LED Display Wall Cubes



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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<http://global.mitsubishielectric.com/bu/displaywall/>



for a greener tomorrow

Already boasting great features, the 70 Series just got even better.

Introducing our new LED light-source model incorporating the core Smart 7 concept, high reliability and advanced eco-consciousness.



Mitsubishi Electric is a leading manufacturer in the global display wall market, selling some 45,000 cubes* to customers around the world since entering the business in 1997.

High functionality, high picture quality and high reliability, all offered through our LED Display Wall Series as new-generation solutions for diversified information display needs.

* as of March 2010



Intelligence

Smart LED

- Three brightness modes (Bright/Normal/Eco) provide flexible settings for different environments and applications
- Low internal colour temperature setting

Colour Space Control

- Primary colour adjustment for consistent colour blending and brilliance uniformity in multi-screen configurations

Digital Gradation Circuit

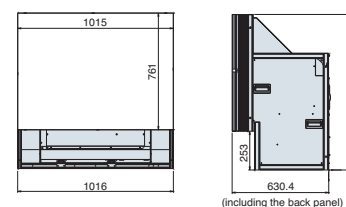
- Sharp, vivid images from edge to edge in multi-screen configurations ensured by even brightness distribution across the screen

Flexibility

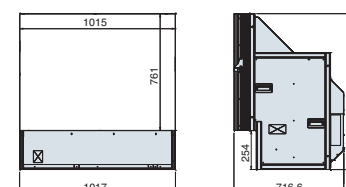
Custom-made Systems

- Common cabinet and screen for SXGA+ and XGA (upgradeable at a small additional cost)
- Mitsubishi Electric 100% front access and rear access versions
- The flexibility to configure systems according to specific needs enabled with the inclusion of three optional input ports

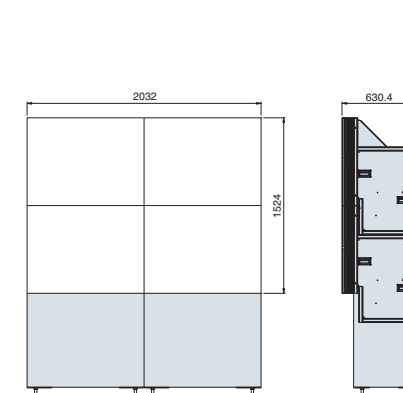
■ Single cube (Rear maintenance cube)



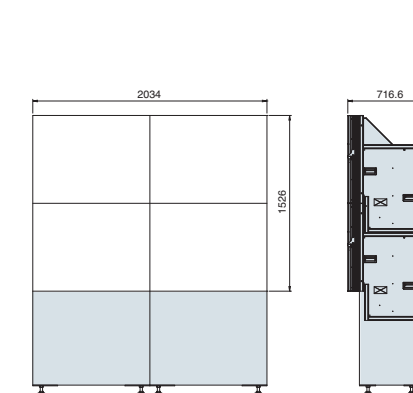
■ Single cube (Front maintenance cube)



■ 2x2 multi-screen configuration (Rear maintenance cube)



■ 2x2 multi-screen configuration (Front maintenance cube)



Internal Processing

Built-in Processor

- Up to four windows + one background per panel (up to six windows with no background image)
- Windows of any size across the entire wall
- User-friendly graphical user interface, Mitsubishi Electric's D-Wall software suite

Auto-balancing

Dynamic Colour & Brightness Balancing

- Three built-in sensors (one for each primary colour)
- Automatic colour and brightness balancing over the entire display during long periods of operation
- No need for an external computer

Easy Set-up

Auto-tuning

- Auto-geometry function incorporated following extensive R&D in the area of image software processing

Full Front Installation and Maintenance Capability

- No need for maintenance space behind the display wall with 100% front access versions

Durability

Reduced Cost of Ownership

- Long-life LED (Expected Lifetime: 80,000 hours or more)
- No colour wheel needed
- No mercury lamp needed

Highly Reliable Original Optical System

- Original optical system designed by Mitsubishi Electric
- High quality and performance

Redundancy

Smart Switch

- Signal redundancy for important applications

Eco-conscious

- Use of colour wheel eliminated.
- Use of mercury lamp eliminated.
- Choice of three brightness modes (Bright/Normal/Eco) enables power consumption to be reduced during operation.

Superior Picture Quality

- Expanded colour gradation ensures the reproduction clear, vivid images for monitoring applications.
- Three colour modes (Vivid/Optimized/Low Colour Temp) for diversified applications.



Vivid mode

Optimized mode

Low Colour Temp mode



Engine Unit

Extended Service Life

- LED light-source service life is eight times longer than conventional lamps, lasting up to approximately 80,000hrs.
- Cooling fan service life of up to 100,000hr.
- Significantly lower operating cost achieved.

