



50" 60" 67" & 80" Display Wall Cubes



Brighter display solutions



Originality, Expertise & Innovation - Setting Global Standards for Display Wall Systems with Smart 7 Concept

Mitsubishi Electric has a long history and extensive experience in the production of display wall systems; being one of the first Manufacturers to introduce DLP™ display wall systems in 1997.

Their popularity continues to grow among customers and partners, with more than

35,000 display wall units installed in many countries around the world. Our 7th generation of display wall solutions, the 70 Series, incorporates the latest cutting-edge technologies to ensure the delivery of superior picture quality and reliability; maintaining the excellent quality synonymous with the Mitsubishi Electric name.



Intelligence

Advanced Smart Lamp

- Automatic colour adjustments after lamp replacements
- A lamp switch function which detects the fading of brightness within a lamp when it is at the end of its service life
- A scheduled lamp switch function for alternate use of two lamps
- Quick lamp swap (less than 1 sec) with a fast rotating mirror to minimize the lamp downtime time

Colour Space Control

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

Digital Gradation Circuit

- Sharp, vivid images from edge to edge on multi-screen configurations are ensured by uniform brightness distribution across the entire screen

Flexibility

Tailor-made System

- Standard cabinet and screen for SXGA+ and XGA solutions (optional upgrades are available at an additional cost)
- Mitsubishi Electric 100% front access and rear access versions
- The flexibility to configure the system according to specific needs with three optional input ports

Internal Processing

Built-in Processor

- Up to four windows + 1 background per panel (up to 6 windows in the case of 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 for long periods of operation
- No need for an external computer

Easy Set-up

Auto-tuning

- Full Front Installation and Maintenance Capability
- Auto-geometry function as the result of extensive R&D work in image software processing
- No need to have maintenance space behind the display wall with 100% front access versions

Durability

Advanced Smart Colour Wheel

- Automatic colour adjustments after replacement of the colour wheel
- 10-year service life

Redundancy

Smart Switch

- Signal redundancy for mission-critical applications

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Screen size	50" diagonal size (1015mm x 761mm)					
Abbreviated model name	50PH	50PHF	50XH	50XHF	50XL	50XLF
Native resolution	SXGA+ (1400 x 1050 pixels)			XGA (1024 x 768 pixels)		
Accessibility	Rear	Front	Rear	Front	Rear	Front
Technology	DLP™ technology / DarkChip3™ / BrilliantColor™					
Brightness	Bright mode	1150cd/m ² (typ.)				
	Normal mode	1010cd/m ² (typ.)				
Viewability angle	Horizontal	178° (1/2 gain ±36°)				
	Vertical	60° (1/2 gain ±10°)				
Contrast ratio	2400 :1 (typ.)			2200 :1 (typ.)		
Screen to screen gap	0.2 - 1.0mm (*1)	1.0 - 2.0mm (*2)	0.2 - 1.0mm (*1)	1.0 - 2.0mm (*2)	0.2 - 1.0mm (*1)	1.0 - 2.0mm (*2)
Lamp system	Lamp power	132W/150W				
	Average lifetime	10,000hrs (normal mode) / 6,000hrs (bright mode) (*3)				
	Lamp switching time	1.0sec				
	Lamp changer system	O				
Key parts average lifetime	DLP™ chip	100,000hrs				
	Colour wheel	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	250W (at 132W lamp power) 280W (at 150W lamp power)			230W (at 132W lamp power) 260W (at 150W lamp power)		
AC input voltage	AC 100-240V ±10%, 50/60Hz ±1Hz					
Operation environment	Temperature	10°C-35°C	10°C-30°C	10°C-35°C	10°C-30°C	10°C-35°C
	Humidity	20%-80% non-condensing				
Weight	69kg / 152lbs	76kg / 168lbs	69kg / 152lbs	76kg / 168lbs	68kg / 150lbs	75kg / 165lbs
Model number	Engine	VS-PH70U		VS-XH70U		VS-XL70U
	Cabinet	S-5070CA	S-5070CAF	S-5070CA	S-5070CAF	S-5070CA
	Screen	SC-5070U	SC-5070UF	SC-5070U	SC-5070UF	SC-5070U
	Cube model (name)	VS-50PH70U	VS-50PHF70U	VS-50XH70U	VS-50XHF70U	VS-50XL70U

(*1) Depending on configuration and environment. 1.0mm recommended for large walls to allow for expansion due to humidity.

(*2) Depending on configuration and environment. 2.0mm recommended for large walls to allow for expansion due to humidity.

(*3) The average lamp life is a reference value advised by the lamp manufacturer, not guaranteed.

Optional Black Bead Screen upon special request

Abbreviated model name with optional Black Bead Screen	50PHB	50PHFB	50XHB	50XHF B	50XLB	50XLF B
Model number for optional Black Bead Screen	SC-5070B	SC-5070BF	SC-5070B	SC-5070BF	SC-5070B	SC-5070BF
Brightness with optional Black Bead Screen	Bright mode	260cd/m ² (typ.)				
	Normal mode	230cd/m ² (typ.)				
Viewability angle with optional Black Bead Screen	Horizontal	178° (1/2 gain ±35°)				
	Vertical	178° (1/2 gain ±35°)				

Analog RGB input board

Model number	VC-B70G2	
Signal input terminal (Analog RGB)	5BNC x1, HD D-sub 15 pins x1	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate	25MHz - 162MHz	
Functions	Image scaling (shrink and zoom) Frame rate conversion	

Digital RGB input board

Model number	VC-B70D2	
Signal input terminal (Digital RGB)	DVI-D x2	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate	25MHz - 162MHz	
Signal format	TMD5	
Functions	Image scaling (shrink and zoom) Frame rate conversion	

Video input board

Model number	VC-B70V2
Signal input terminal (Analog video)	3BNC x2
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL-60, SECAM

Daisy-chain board

Model number	VC-B70D C	
Signal input terminal	Analog RGB: HD D-sub 15 pins x1	
	Digital RGB: DVI-D x1	
	Analog video: 3BNC x1	
Signal output terminal	Digital RGB: DVI-D x1 (for daisy-chain use only)	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL-60, SECAM	
Pixel clock rate	25MHz - 162MHz	
Functions	Image scaling (shrink and zoom) Frame rate conversion Daisy-chain (up to 16 panels)	

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Screen size	60" diagonal size (1218mm x 913mm)					
Abbreviated model name	60PH	60PHF	60XH	60XHF	60XL	60XLF
Native resolution	SXGA+ (1400 x 1050 pixels)			XGA (1024 x 768 pixels)		
Accessibility	Rear	Front	Rear	Front	Rear	Front
Technology	DLP™ technology / DarkChip3™ / BrilliantColor™					
Brightness	Bright mode	800cd/m² (typ.)				
	Normal mode	700cd/m² (typ.)				
Viewability angle	Horizontal	178° (1/2 gain ±36°)				
	Vertical	60° (1/2 gain ±10°)				
Contrast ratio	2400 :1 (typ.)			2200 :1 (typ.)		
Screen to screen gap	0.2 - 1.5mm (*1)	1.0 - 2.5mm (*2)	0.2 - 1.5mm (*1)	1.0 - 2.5mm (*2)	0.2 - 1.5mm (*1)	1.0 - 2.5mm (*2)
Lamp system	Lamp power	132W/150W				
	Average lifetime	10,000hrs (normal mode) / 6,000hrs (bright mode)(*3)				
	Lamp switching time	1.0sec				
	Lamp changer system	O				
Key parts average lifetime	DLP™ chip	100,000hrs				
	Colour wheel	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					
	3 slots					
Power consumption	250W (at 132W lamp power) 280W (at 150W lamp power)			230W (at 132W lamp power) 260W (at 150W lamp power)		
AC input voltage	AC 100-240V ±10%, 50/60Hz ±1Hz					
Operation environment	Temperature	10°C-35°C	10°C-30°C	10°C-35°C	10°C-30°C	10°C-35°C
	Humidity	20%-80% non-condensing				
Weight	88kg / 194lbs	94kg / 207lbs	88kg / 194lbs	94kg / 207lbs	87kg / 192lbs	93kg / 205lbs
Model number	Engine	VS-PH70U		VS-XH70U		VS-XL70U
	Cabinet	S-6070CA	S-6070CAF	S-6070CA	S-6070CAF	S-6070CA
	Screen	SC-6070U	SC-6070UF	SC-6070U	SC-6070UF	SC-6070U
	Cube model (name)	VS-60PH70U	VS-60PHF70U	VS-60XH70U	VS-60XHF70U	VS-60XL70U

(*1) Depending on configuration and environment. 1.5mm recommended for large walls to allow for expansion due to humidity.

(*2) Depending on configuration and environment. 2.5mm recommended for large walls to allow for expansion due to humidity.

(*3) The average lamp life is a reference value advised by the lamp manufacturer, not guaranteed.

Optional Black Bead Screen upon special request

Abbreviated model name with optional Black Bead Screen	60PHB	60PHFB	60XHB	60XHFB	60XLB	60XLB
Model number for optional Black Bead Screen	SC-6070B	SC-6070BF	SC-6070B	SC-6070BF	SC-6070B	SC-6070BF
Brightness with optional Black Bead Screen	Bright mode	180cd/m² (typ.)				
	Normal mode	160cd/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

Model number	VC-B70G2	
Signal input terminal (Analog RGB)	5BNC x1, HD D-sub 15 pins x1	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate	25MHz - 162MHz	
Functions	Image scaling (shrink and zoom) Frame rate conversion	

Digital RGB input board

Model number	VC-B70D2	
Signal input terminal (Digital RGB)	DVI-D x2	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate	25MHz - 162MHz	
Signal format	TMD5	
Functions	Image scaling (shrink and zoom) Frame rate conversion	

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Video input board

Model number	VC-B70V2
Signal input terminal (Analog video)	3BNC x2
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL-60, SECAM

Daisy-chain board

Model number	VC-B70D C	
Signal input terminal	Analog RGB: HD D-sub 15 pins x1	
	Digital RGB: DVI-D x1	
	Analog video: 3BNC x1	
Signal output terminal	Digital RGB: DVI-D x1 (for daisy-chain use only)	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL-60, SECAM	
Pixel clock rate	25MHz - 162MHz	
Functions	Image scaling (shrink and zoom) Frame rate conversion Daisy-chain (up to 16 panels)	

Brighter display solutions

Screen size	67" diagonal size (1359mm x 1019mm)							80" diagonal size (1600mm x 1200mm)
Abbreviated model name	67PH	67PHF	67XH	67XHF	67XL	67XLF	80PH	
Native resolution	SXGA+ (1400 x 1050 pixels)			XGA (1024 x 768 pixels)			SXGA+ (1400 x 1050 pixels)	
Accessibility	Rear	Front	Rear	Front	Rear	Front	Rear	
Technology	DLP™ technology / DarkChip3™ / BrilliantColor™							
Brightness	Bright mode	640cd/m ² (typ.)					150cd/m ² (typ.)	
	Normal mode	560cd/m ² (typ.)					130cd/m ² (typ.)	
Viewability angle	Horizontal	178° (1/2 gain ±36°)					178° (1/2 gain ±35°)	
	Vertical	60° (1/2 gain ±10°)					178° (1/2 gain ±35°)	
Contrast ratio	2400 :1 (typ.)			2200 :1 (typ.)			2400 :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)	0.2 - 2.0mm (*1)	1.0 - 3.0mm (*2)	0.2 - 3.0mm (*2)	
Lamp system	Lamp power	132W/150W					156W/180W	
	Average lifetime	10,000hrs (normal mode) / 6,000hrs (bright mode) (*3)					6,000hrs (normal mode) / 4,000hrs (bright mode) (*4)	
	Lamp switching time	1.0sec				-	1.0sec	
	Lamp changer system	O				-	O	
Key parts average lifetime	DLP™ chip	100,000hrs						
	Colour wheel	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							
	IR receiver							
Input board slot for optional input board	3 slots							
Power consumption	250W (at 132W lamp power) 280W (at 150W lamp power)			230W (at 132W lamp power) 260W (at 150W lamp power)			TBD	
AC input voltage	AC 100-240V ±10%, 50/60Hz ±1Hz							
Operation environment	Temperature	10°C-35°C	10°C-30°C	10°C-35°C	10°C-30°C	10°C-30°C	10°C-35°C	
	Humidity	20%-80% non-condensing						
Weight	103kg / 227lbs	107kg / 236lbs	103kg / 227lbs	107kg / 236lbs	102kg / 225lbs	106kg / 234lbs	136kg / 300lbs	
Model number	Engine	VS-PH70U		VS-XH70U		VS-XL70U		
	Cabinet	S-6770CA	S-6770CAF	S-6770CA	S-6770CAF	S-6770CA	S-6770CAF	
	Screen	SC-6770U	SC-6770UF	SC-6770U	SC-6770UF	SC-6770U	SC-6770UF	
	Cube model (name)	VS-67PH70U	VS-67PHF70U	VS-67XH70U	VS-67XHF70U	VS-67XL70U	VS-67XLF70U	VS-80PH75B

(*1) Depending on configuration and environment. 2.0mm recommended for large walls to allow for expansion due to humidity.

(*2) Depending on configuration and environment. 3.0mm recommended for large walls to allow for expansion due to humidity.

(*3) The average lamp life is a reference value advised by the lamp manufacturer, not guaranteed.

(*4) The average lamp life is an average value that we obtained as a result of our original verification. This value is a reference value, not guaranteed.

Optional Black Bead Screen upon special request

Abbreviated model name with optional Black Bead Screen	67PHB	67PHFB	67XHB	67XHFB	67XLB	67XLBF
Model number for optional Black Bead Screen	SC-6770B	SC-6770BF	SC-6770B	SC-6770BF	SC-6770B	SC-6770BF
Brightness with optional Black Bead Screen	Bright mode	150cd/m ² (typ.)				
	Normal mode	130cd/m ² (typ.)				
Viewability angle with optional Black Bead Screen	Horizontal	178° (1/2 gain ±35°)				
	Vertical	178° (1/2 gain ±35°)				

Analog RGB input board

Model number	VC-B70G2	
Signal input terminal (Analog RGB)	5BNC x1, HD D-sub 15 pins x1	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate	25MHz - 162MHz	
Functions	Image scaling (shrink and zoom) Frame rate conversion	

Digital RGB input board

Model number	VC-B70D2	
Signal input terminal (Digital RGB)	DVI-D x2	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate	25MHz - 162MHz	
Signal format	TMDS	
Functions	Image scaling (shrink and zoom) Frame rate conversion	

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Video input board

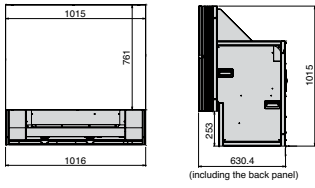
Model number	VC-B70V 2
Signal input terminal (Analog video)	3BNC x2
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL-60, SECAM

Daisy-chain board

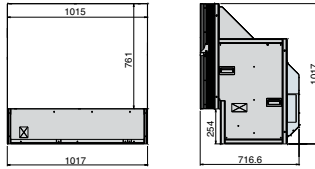
Model number	VC-B70D C	
Signal input terminal	Analog RGB: HD D-sub 15 pins x1	
	Digital RGB: DVI-D x1	
	Analog video: 3BNC x1	
Signal output terminal	Digital RGB: DVI-D x1 (for daisy-chain use only)	
RGB input scanning frequency	Signal resolutions	VGA (640 x 480) - WUXGA (1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Analog video input signals	NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL-60, SECAM	
Pixel clock rate	25MHz - 162MHz	
Functions	Image scaling (shrink and zoom) Frame rate conversion Daisy-chain (up to 16 panels)	

50"

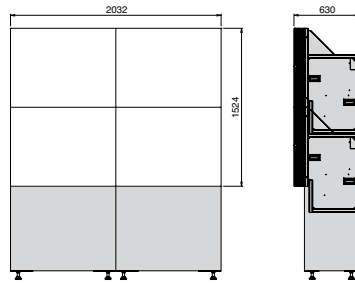
■ Single cube (Rear maintenance cube)



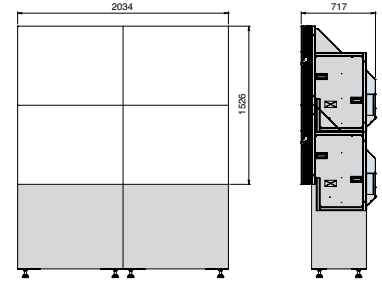
■ Single cube (Front maintenance cube)



■ 2x2 multi screen configuration (Rear maintenance cube)

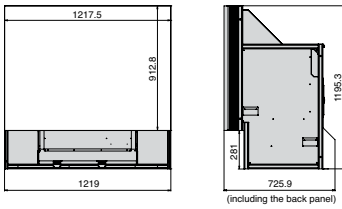


■ 2x2 multi screen configuration (Front maintenance cube)

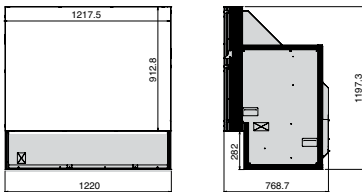


60"

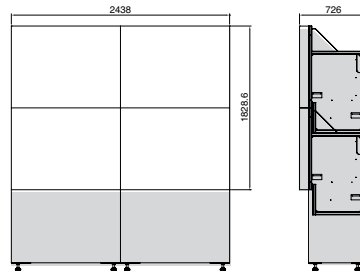
■ Single cube (Rear maintenance cube)



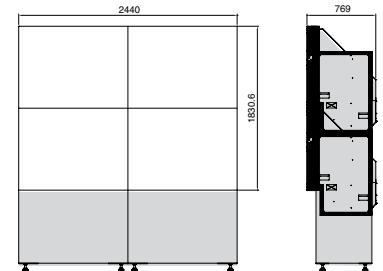
■ Single cube (Front maintenance cube)



■ 2x2 multi screen configuration (Rear maintenance cube)

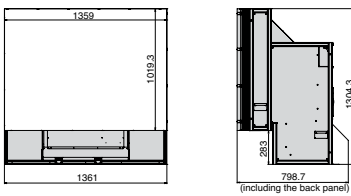


■ 2x2 multi screen configuration (Front maintenance cube)

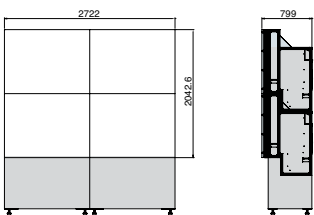


67" 80"

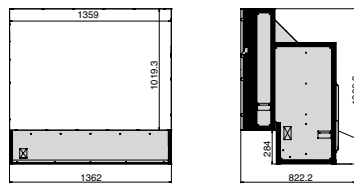
■ 67" single cube (Rear maintenance cube)



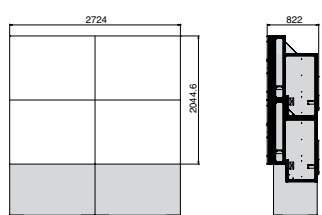
■ 67" 2x2 multi screen configuration (Rear maintenance cube)



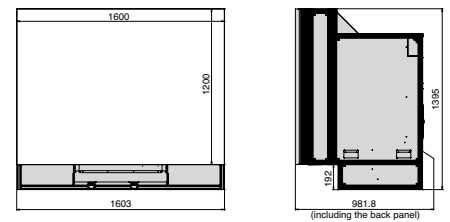
■ 67" single cube (Front maintenance cube)



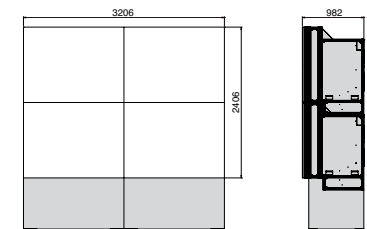
■ 67" 2x2 multi screen configuration (Front maintenance cube)



■ 80" single cube



■ 80" 2x2 multi screen configuration





New publication, effective March 2010 Specifications subject to change without notice.

Brighter display solutions

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