



Screen size		50" diagonal size (1015mm x 761mm)					
Abbreviated model name		50PH	50PHF	50XH	50XHf	50XL	50Xf
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/m² [typ.]					
	Normal mode	1010cd/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 - 1.0mm (*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	○					
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)					
		RS232C: 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	10°C - 30°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-507OCA	S-507OCaf	S-507OCA	S-507OCaf	S-507OCA	S-507OCaf
	Screen	SC-5070U	SC-5070Uf	SC-5070U	SC-5070Uf	SC-5070U	SC-5070Uf
	All-in-one	VS-50PH70U	VS-50PHF70U	VS-50XH70U	VS-50XHf70U	VS-50XL70U	VS-50Xf70U

(\*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	50XH-B	50XHfB	50XLB	50XfB
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/m² [typ.]					
	Normal mode	230cd/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
Functions	Image scaling (shrink and zoom) Frame rate conversion

**Daisy-chain board**

Model number	VC-B70DC	
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)	

**SDI input board**

Model number	VC-B70SD1
Signal input terminal	HD-SDI: BNC x1
Input signals	HD-SDI (SMPT 292M) / 3D-SDI (SMPT 299M)
Signal output terminal	HD-SDI: BNC x1 (for through output)
Gen Lock input terminal	BNC x1
Functions	Image scaling (shrink and zoom) Frame rate conversion



**70 Seventy Series:**

**50" Display Wall Cubes**

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

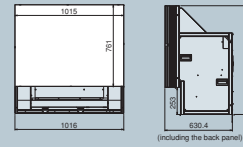
One of the first manufacturers to introduce display wall cubes using DLP™ technology in 1997, Mitsubishi Electric has a long history and extensive experience in the production of display wall systems.

Their popularity continues to grow among customers and partners, with more than 35,000 display wall units installed in countries around the world to date.

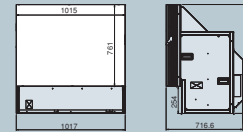
A leading product of our 7th-generation solutions, the 70 Series incorporates the latest cutting-edge technologies to ensure the delivery of superior picture quality and reliability, maintaining the excellent quality synonymous with the Mitsubishi Electric name.



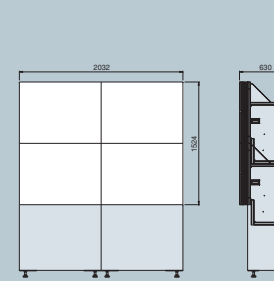
■ Single cube (Rear maintenance cube)



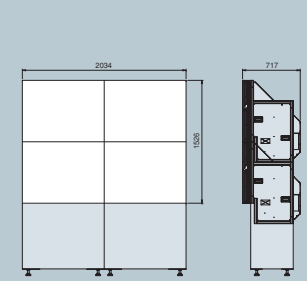
■ Single cube (Front maintenance cube)



■ 2x2 multi screen configuration (Rear maintenance cube)



■ 2x2 multi screen configuration (Front maintenance cube)



## Intelligence

### Advanced Smart Lamp

- Automatic colour adjustment after replacing the lamp
- A lamp switch function which detects the fading brightness of the lamp 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 minimise the lamp downtime

### 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 ensured by uniform brightness distribution across the screen

## Flexibility

### Tailor-made System

- 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 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

- Auto-geometry function as the result of extensive R&D work in image software processing

### Full Front Installation and Maintenance Capability

- 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