



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					
	Normal mode					
Viewability angle	Horizontal			Vertical		
	180° (1/2 gain ±36°)					
Contrast ratio	2400:1 (typ.)			2200:1 (typ.)		
	60° (1/2 gain ±10°)					
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					
	Average lifetime					
	Lamp switching time					
	Lamp changer system					
Key parts average lifetime	DLP™ chip					
	Colour wheel					
	Cooling fan					
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)			230W (at 132W lamp power)		
	280W (at 150W lamp power)			260W (at 150W lamp power)		
AC input voltage	AC 100-240V ±10%, 50/60Hz ±1Hz					
Operation environment	Temperature					
	Humidity					
Weight	69kg / 152lbs		76kg / 168lbs		68kg / 150lbs	
	75kg / 165lbs		69kg / 152lbs		76kg / 168lbs	
Model number	Engine					
	Cabinet					
	Screen					
	All-in-one					

(*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	50XHFB	50XLB	50XLFB
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					
	Normal mode					
Viewability angle with optional Black Bead Screen	Horizontal			Vertical		
	180° (1/2 gain ±35°)					
Weight	69kg / 152lbs		76kg / 168lbs		68kg / 150lbs	
	75kg / 165lbs		69kg / 152lbs		76kg / 168lbs	
Model number	Engine					
	Cabinet					
	Screen					
	All-in-one					

Analog RGB input board

Model number	VC-B70G2
Signal input terminal (Analog RGB)	58NC x1, HD D-sub 15 pins x1
RGB input scanning frequency	Signal resolutions
	Horizontal
	Vertical
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
	Horizontal
	Vertical
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-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
Signal output terminal	Analog video: 3BNC x1
RGB input scanning frequency	Signal resolutions
	Horizontal
	Vertical
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(SMPTE 292M) / SD-SDI(SMPTE 259M-Q)
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



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

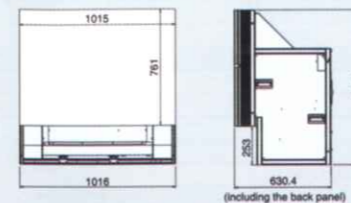
One of the first manufacturers to introduce display wallcubes using DLP™ technology in 1997, Mitsubishi Electric has a long history and extensive experience in the production of display wall systems.

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.

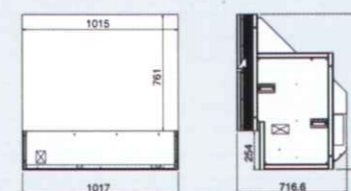
A leading product of our 7th-generation solutions, the 70 Series incorporates the latest cutting-edge technologies to ensure the delivery of superior picture quality and reliability; maintaining the excellent quality synonymous with the Mitsubishi Electric name.



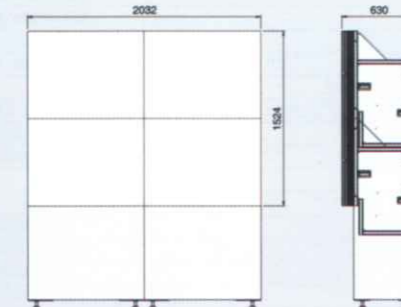
■ Single cube (Rear maintenance cube)



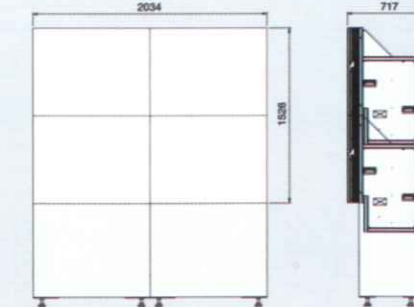
■ Single cube (Front maintenance cube)



■ 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 minimize 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