## Specification

Model Name	VS-L55HM70U
Display Orientation	Landscape/Portrait
Display Device	TFT LCD(SPVA Mode)
Back Light Tehcnology	LED(Direct)
Display Resolution	Full HD(1920 x 1080 Pixels)
Viewable Image Size	55"(H:1209.6mm/V:680.4mm)
Brightness	700cd/m²(Typ.)@Bright Mode
	500cd/m²(Typ.)@Normal Mode
	350cd/m²(Typ.)@Eco Mode
Contrast Ratio	3500:1(Typ.)
Viewing Angle(H/V)	178Degree
Display Colors	16.7Million
Mullion(Total)	5.7mm(Typ.)/6.7mm(Typ.)*
Back Light Operating Life	50000hrs(Average)
Optional Input Board Slot	x3(One VC-B70DC card is pre-installed)
Control Signal Input	RS-232C: Dsub9
	LAN: RJ45(10BASE-T/100BASE-TX)
	Dsub 9 x 2(IN/OUT) Mitsubishi Original Control Link
	Wired Remote: F3.5 Jack
	IR Receiver(Option)
Input Signal	Refer to the bottom input board(Option) specifications
Overlay Function	Max. 6 Windows per each screen (with VC-B70V2) Max. 3 Windows per each screen (with other boards)
Control S/W(Option)	Mitsubishi D-Wall Software Suite
Power Consumption	210W(Typ.)@Bright Mode
	170W(Typ.)@Normal Mode
	150W(Typ.)@Eco Mode
Voltage Range	AC100-240V±10%,50/60Hz±1Hz
Dimensions	1215.3mm(W) x 686.1mm(H) x 173mm(D) 47.8inch(W) x 27inch(H) x 6.8inch(D)
Operating Condition	5-35C.Degree(41-95F.Degree)@Normal/Eco Mode 5-30C.Degree(41-86F.Degree)@Bright Mode
Weight	40Kg/88lbs

*When using with Wall Mount Frame BR-HM70KK(option).
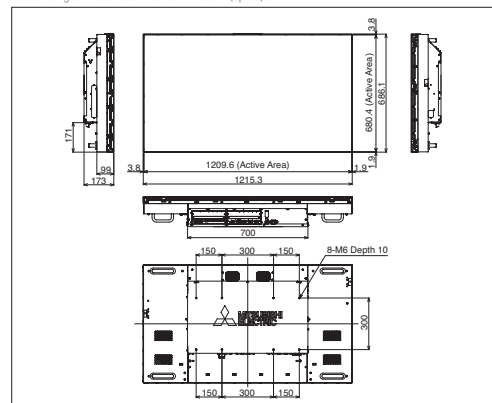
Analog RGB input board(Option)

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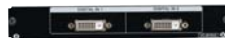
Model number		VC-B70D2
Signal input terminal(Digital RGB)		DVI-D x2
RGB input scanning frequency	Signal resolutions	VGA(640 x 480) - WUXGA(1920 x 1200)
	Horizontal	31.5kHz - 92kHz
	Vertical	49Hz - 85Hz
Pixel clock rate		25MHz - 162MHz
Sigal format		TMDS
Functions		Image scaling(shrink and zoom) Frame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

Video input board(Option)

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(Option)

Model number		VC-B70DC
Signal input terminal		Analog RGB: HD D-sub15pins x1
		Digital RGB: DVI-D x1
		Analog video: 3BNC x1
Signal output terminal		Digital RGB: DVI-D x 1(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 cubes)

3G-SDI input board(Option)

Model number	VC-B70SD1
Signal input terminal	HD-SDI: BNC x1
Input signals	3G-SDI(SMPTE424M): 1080p@50/59.94/60Hz
	HD-SDI(SMPTE292M): 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz
	SD-SDI(SMPTE259-C): 480i@59.94Hz,576i@50Hz
Signal output terminal	HD-SDI: BNC x1(for through output)
Gen Lock input termninal	BNC x1
Functions	Image scaling(shrink and zoom) Frame rate conversion through output

*At least one input board per single display is needed for operation.
*The specifications are subject to change without notices.

MITSUBISHI ELECTRIC

Changes for the Better

Display Wall

VS-L55HM70U

55" LCD Display Wall

Mitsubishi Electric
LCD Display Wall System Solutions

The Mitsubishi Electric LCD Display Wall System is the ideal solution for small-and medium-sized control rooms that require high picture quality from displays used continuously for long periods of time.
It features an advanced technology system that provides intelligence, durability, redundancy and space savings.

We have extensive expertise in this field, including the installation of over 50,000 display wall cubes for mission-critical applications.

Combining a space-saving design and easy video/data integration using slot-in board processing, this display wall system is perfect for the following applications:

> **Traffic management**

> **Security operations**

> **Power distribution/ Water treatment management**

> **Broadcasting**

5.7mm mullion (total)

Super narrow 5.7mm mullion minimises the image content loss, which is critical for command and control room usage.

5.7mm

High picture quality over the entire wall

Digital gradation circuit

Mitsubishi Electric's innovative digital gradation circuit provides uniform brightness distribution across the screen, resulting in the reproduction of sharp, vivid images form edge to edge on multi-screen configurations. This virtually eliminates the problem of decreased brightness at the edges of each screen.

Without "Digital Gradation Circuit"   With "Digital Gradation Circuit"

Colour space control

Our LCD displays are equipped with an innovative digital colour space control circuit developed in-house. The circuit works to balance and blend colours, compensating for the colour and brightness discrepancies between LCD displays.
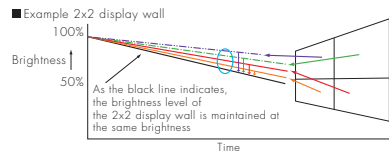
Without "Colour Space Control"   With "Colour Space Control"

Dynamic brightness balancing

With a built-in brightness sensor, the Dynamic Brightness Balancing circuit can keep the brightness uniformity of display wall over the period of operation time by communicating the measured brightness data by every 2 seconds.

■ Example 2x2 display wall
100%
Brightness
50%
As the black line indicates, the brightness level of the 2x2 display wall is maintained at the same brightness
Time

Front access for easy service

When used in combination with Mitsubishi Electric's original optional wall mount kit, the LCD panels can be accessed from the front of the system. This design makes it possible for panels to be serviced from the front as well as the rear.
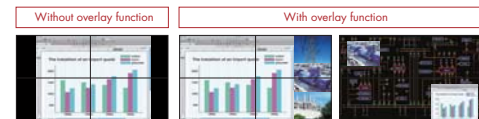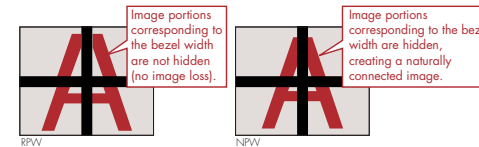
Wall

Internal processing

Built-in processor

Each LCD display is equipped with an internal data-processing function that allows an operator to show up to six windows (with VC-B70V2) or three windows (with other boards) per panel, and allows up to three windows placed in any size and position across the entire wall when using the daisy chain function.

Install Mitsubishi Electric's D-Wall software suite and the entire imaging system can be controlled intuitively from a user-friendly graphical user interface.

Without overlay function	With overlay function

Black strips are displayed on both sides when the image source is set to the 4:3 aspect ratio.

Only one screen can be displayed at a time.

Freely choose the size and position of the image windows.

Bezel compensation

Images can be displayed in two modes, Real Picture Window (RPW) or Natural Picture Window (NPW).
RPW displays images using the entire input signal (no image loss), making it suitable for displaying surveillance images and similar applications.
NPW creates a smoothly connected screen image appearance when using multiple screens; perfect for moving pictures.

Image portions corresponding to the bezel width are not hidden (no image loss).

Image portions corresponding to the bezel width are hidden, creating a naturally connected image.

RPW   NPW

3 operational modes

Three backlight power modes (Bright, Normal and Eco) can be selected according to the operating environment.

Normal mode   Bright mode   Eco mode

Redundancy

Smart Switch

The LCD Display Wall System is also equipped with a "Smart Switch". This signal source control function provides the redundancy necessary for mission-critical applications that require continuous operation. If the signal is unexpectedly lost, the signal source is automatically switched to an alternative device (either "port-to-port" or "board-to-board") within seconds of detecting the 'no signal' status. As a result, user downtime is minimised in the event of a signal source failure.

User-friendly graphical user interface (Option)

"D-Wall", a software suite developed by Mitsubishi Electric, is available for the LCD Display Wall System. The software was originally created for use with the display wall cube and processor, and has been continuously modified and upgraded. In addition to basic functions such as wall configuration support, display layout control, and brightness/colour control, the following functions for control room use have been incorporated into the latest version.
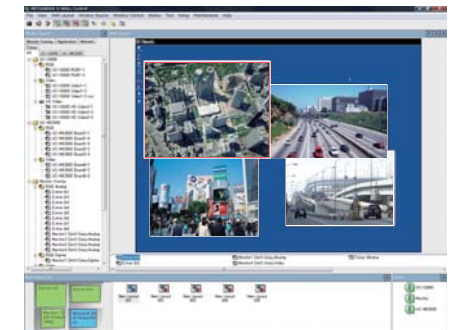
Remote multi-mouse cursor application control

When being operated under a client-server configuration, multiple users (clients) can simultaneously navigate applications using their dedicated mouse. Individual cursors, colour-coded for each mouse, are shown on the display wall, and all clients can control applications on the server. This function simultaneously enables more efficient control room operation and room layout flexibility.

Alert message utility

This information function displays alerts and notices on the wall, supporting teamwork in the control room.

System monitoring

This management function constantly monitors key operating parameters of the LCD Wall System such as the status of cooling fans and temperature inside the displays. The information for each display is displayed via the GUI.

Multilingual interface

The D-Wall software suite is available in multiple languages.