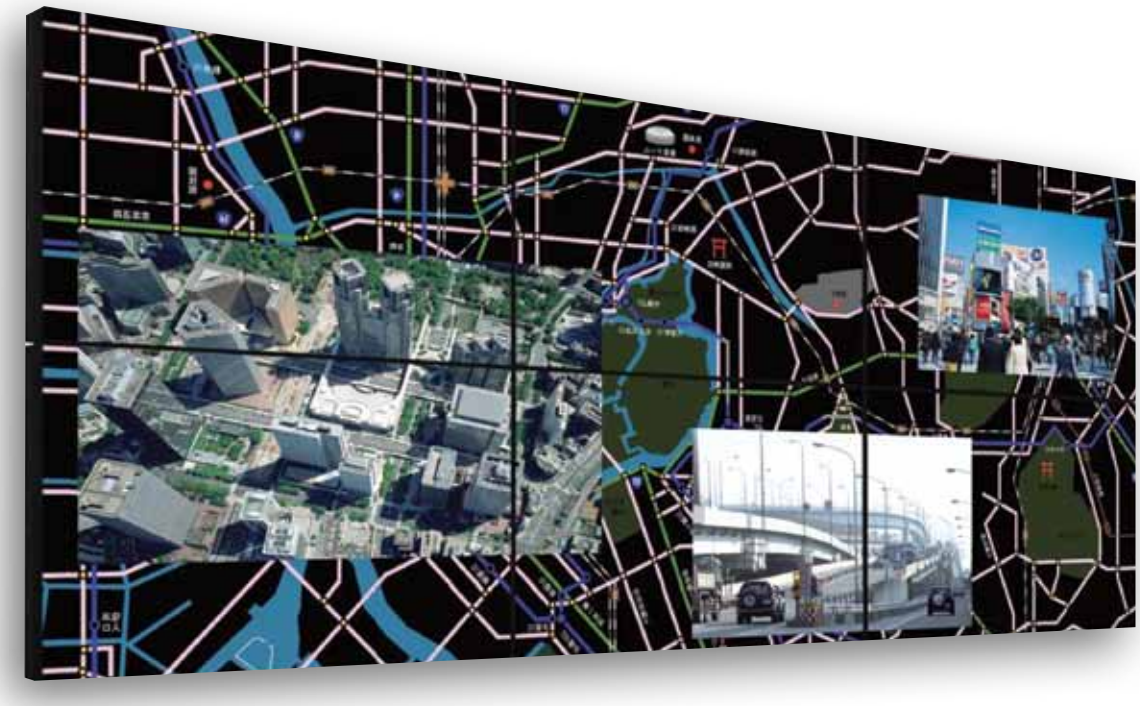
MITSUBISHI ELECTRIC
*Changes for the Better*

for a greener tomorrow eco Changes

# Ultra slim 46” display wall model
# VS-L46XM70U



The L46XM is designed for the control room market and can be used to create a very compact, standalone display wall system. Mitsubishi’s Colour Space Control accurately harmonizes the colour and brightness of each display automatically and Digital Gradation Circuits raise the brightness level at the edges of each display so that the brightness level is constant across the whole display wall.

**Features**

- 46” Ultra Slim LCD
- Internal processing capabilities
- WXGA (1366 x 768 pixels)
- 700cd/m² of brightness
- 3000:1 contrast ratio
- D-Wall software suite (optional)

70 Seventy Series: FLAT

**Brighter** display solutions

# 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 35,000 display wall cubes for mission-critical applications.

- Traffic management
- Security operations
- Power distribution/Water treatment management
- Broadcasting

## 7.3mm mullion (total)

Super narrow 7.3mm mullion minimises the image content loss, which is critical for command and control room usage.

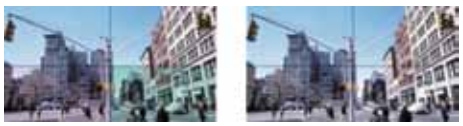

## High Picture quality over the entire display

### Digital Gradation Circuit (DGC)

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

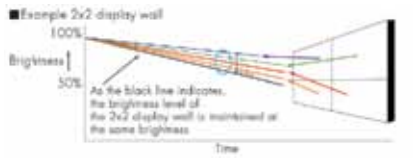
### Colour Space Control (CSC)

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 colour and brightness discrepancies between LCD displays.



## Dynamic Brightness Balancing (DBB)

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




## Internal processing

### Built-in processor

Each display in the LCD Display Wall System is equipped with an internal data-processing function that allows for showing up to six seperate windows per panel, and up to three windows placed in any size and position across the entire display wall (when using the daisy chain function).

By installing Mitsubishi Electric's D-Wall software suite the entire imaging system can be controlled intuitively from a user-frendly graphical interface.

## 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-toboard") within seconds of detecting the 'no signal' status. As a result, user downtime is minimised in the event of a signal source failure.

## 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.

## D-WALL

### User-friendly graphical user interface (Optional)

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

### Remote multi-mouse cursor application control

When 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. An alert message feature displays alearts 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 aceesible via the GUI.

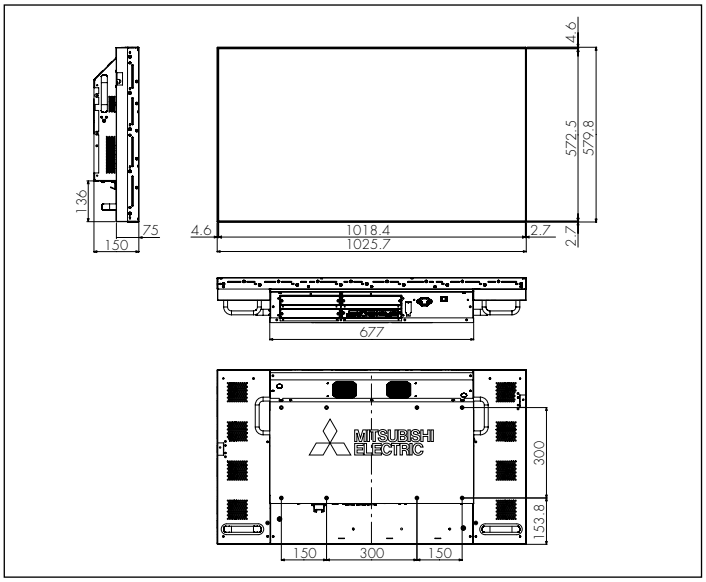
### Multilingual interface

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

## Specification

| | |
|---|---|
| Model Name | VS-L46XM70U |
| Display Orientation | Landscape |
| Display Device | TFT LCD(SPVA Mode) |
| Back Light Tehcnology | CCFL |
| Display Resolution | WXGA(1366 x 768 Pixels) |
| Viewable Image Size | 46"(H:1018.4mm/V:572.5mm) |
| Brightness | 700cd/m²(Typ.)@Bright Mode |
| | 500cd/m²(Typ.)@Normal Mode |
| | 350cd/m²(Typ.)@Eco Mode |
| Contrast Ratio | 3000:1(Typ.) |
| Viewing Angle(H/V) | 178Degree |
| Display Colors | 16.7Million |
| Mullion(Total) | 7.3mm(Typ.)/8.3mm(Typ.)* |
| Back Light Operating Life | 50000hrs(Average) |
| Optional Input Board Slot | x3 |
| Control Signal Input | RS-232C: Dsub9 |
| | LAN: RJ45(10BASE-T/100BASE-TX) |
| | Dsub 9 x 2(IN/OUT)<br>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 |
| Control S/W(Option) | Mitsubishi D-Wall Software Suite |
| Power Consumption | 255W(Typ.)@Bright Mode |
| | 205W(Typ.)@Normal Mode |
| | 175W(Typ.)@Eco Mode |
| Voltage Range | AC100-240V±10%,50/60Hz±1Hz |
| Dimensions | 1025.7mm(W) x 579.8mm(H) x 150mm(D)<br>40.4inch(W) x 22.8inch(H) x 5.9inch(D) |
| Operating Condition | 5-35C.Degree(41-95F.Degree)@Normal/Eco Mode<br>5-30C.Degree(41-86F.Degree)@Bright Mode |
| Weight | 30Kg/66lbs |

*When using with Wall Mount Frame BR-XM70KK(option).




eco Changes for a greener tomorrow

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.

## 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)<br>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)<br>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<br>PAL-60, SECAM |
| Functions | Image scaling(shrink and zoom)<br>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<br>PAL-60, SECAM |
| Pixel clock rate | | 25MHz - 162MHz |
| Functions | | Image scaling(shrink and zoom)<br>Frame rate conversion<br>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,<br>720p@50/59.94/60Hz |
| | SD-SDI(SMPTE259-C): 480i@59.94Hz,576@50Hz |
| Signal output terminal | HD-SDI: BNC x1(for through output) |
| Gen Lock input termninal | BNC x1 |
| Functions | Image scaling(shrink and zoom)<br>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.

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New publication, effective August 2011. Specifications subject to change without notice.

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www.displays.mitsubishielectric.eu | t: + 44 (0) 1707 278684 | f: + 44 (0) 1707 278541 | e: displays@meuk.mee.com