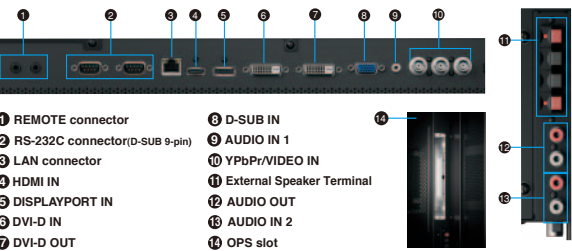


Specification

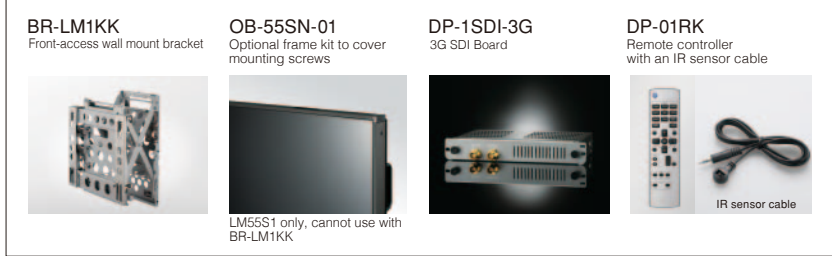
Model		LM55P1	LM46P1	LM55S1
Dimensions				
Unit: mm				
Dimensions (W x H x D)		1215.5 x 686.3 x 128mm (47.9 x 27 x 5")	1024 x 578.6 x 108mm (40.3 x 22.8 x 4.3")	1215.5 x 686.3 x 121.2mm (47.9 x 27 x 4.8")
Display device		TFT LCD (SPVA)	TFT LCD (SPVA)	TFT LCD (IPS)
Screen surface treatment		Anti-glare (Haze 44%)	Anti-glare (Haze 44%)	Anti-glare (Haze 10%)
Mullion size (Total)		B-to-B 5.7mm (Typ.) / A-to-A 5.9mm (Typ.)*1	B-to-B 5.3mm (Typ.) / A-to-A 5.9mm (Typ.)*1	B-to-B 5.3mm (Typ.) / A-to-A 5.9mm (Typ.)*1
Display resolution		Full HD (1920 x 1080 Pixels)	Full HD (1920 x 1080 Pixels)	Full HD (1920 x 1080 Pixels)
Viewable image size		55" (H: 1209.6mm/V: 680.4mm)	46" (H: 1024mm/V: 578.6mm)	55" (H: 1209.6mm/V: 680.4mm)
Back light technology		LED (Direct)	LED (Direct)	LED (Direct)
Viewing angle(H/V)		178 Degree (CR>10)	178 Degree (CR>10)	178 Degree (CR>10)
Display orientation		Landscape / Portrait	Landscape / Portrait	Landscape / Portrait
Brightness		700cd/m ² (Typ., High Bright mode)	500cd/m ² (Typ., High Bright mode)	500cd/m ² (Typ., High Bright mode)
Contrast ratio		3,500:1 (Typ.)	3,500:1 (Typ.)	1,300:1 (Typ.) (206,000:1 (If turn on backlight area control))
Display colours		16.7 million	16.7 million	1.06 billion
Input connectors	Video	DVI-D (with HDCP) x 1, HDMI x 1, DisplayPort (1.1a) x 1, D-sub15 x 1, Composite (BNC Y: shared with component video) x 1, Component (YPbPr) <BNC> x 1		
	Audio	PC-audio (mini-pin) x 1, RCA-audio x 1		
	Control	RS-232C x 1, ø3.5mm stereo mini jack x 1, LAN control (RJ-45) x 1		
Output connectors	Video	DVI-D (with HDCP)		
	Audio	RCA pin-jack x 1, External speaker jack x 1		
	Control	RS-232C x 1, ø3.5mm stereo mini jack x 1		
Signal frequency	Analog	H: 15.625/15.734/31.5-91.1KHz, V: 50/58-85Hz, Pixel clock: 13.5-165MHz		
	Digital	H: 31.5-91.1KHz, V: 58-85Hz, Pixel clock: 25-165MHz		
Power consumption		210W (Typ., High Bright mode)	160W (Typ., High Bright mode)	195W (Typ., High Bright mode)
Voltage range		180W (Typ., Standard mode)	140W (Typ., Standard mode)	162W (Typ., Standard mode)
Weight		37kg / 82lbs	24kg / 53lbs	37kg / 82lbs
Operating environment		5-35°C (41-95°F)	20-80% relative humidity	0-40°C (32-104°F)*2
Other features		20-80% relative humidity	Intel OPS slot x 1	Built-in stereo speakers (10W+10W)
		Digital Gradation Circuit	Colour Space Control Circuit	—

*1 The numbers are design figures only, and do not include the space between the display. When using BR-LM1KK, an addition gap of 1mm is required. B-to-B: Bezel to Bezel, A-to-A: Active to Active.
*2 In the case of portrait installation, 0-35°C (32-95°F).

Connector Terminals



Options



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.



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LCD Display Wall

for a greener tomorrow



High-definition Multi-panel Displays
For the Information-Driven Public

[LM55P1/LM46P1/LM55S1]

Ultrafine bezels smoothly integrate into multi-screen applications creating virtually seamless images

Evolving large-screen imaging systems for today's visual information society. Mitsubishi Electric multi-screen displays contribute to ensuring the smooth flow of information in public spaces such as airports and train stations.



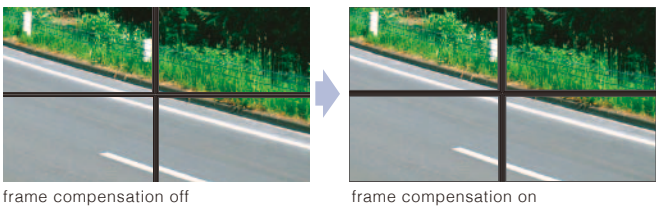
LM55P1	Full HD (1920 x 1080) 55" (Viewable image size: 1209.6 x 680.4mm) Bezel width: 3.8mm (Upper/Left) / 1.9mm (Bottom / Right)
LM46P1	Full HD (1920 x 1080) 46" (Viewable image size: 1018.3 x 572.9mm) Bezel width: 3.8mm (Upper/Left) / 1.9mm (Bottom / Right)
LM55S1	Full HD (1920 x 1080) 55" (Viewable image size: 1209.6 x 680.4mm) Bezel width: 3.4mm (Upper/Left) / 1.9mm (Bottom / Right)

Full HD, LED-backlit LCD Panels with Super-narrow Bezel

Commercial-grade LED-backlit panels with high brightness and contrast. The panels also feature a super-narrow bezel that minimises image content loss, a critical factor in multi-screen applications.

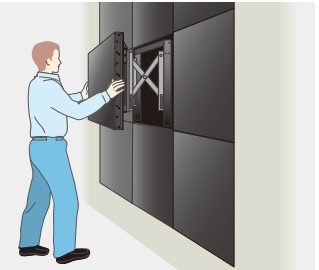
Tiling Compatibility with Frame Compensation

Both models feature a frame compensation function that works in configurations of up to 25 panels (5 wide x 5 high). The ability to adjust panel bezel width enables extremely accurate image reproduction.



Optional Front-access Wall Mount Bracket (Option: BR-LM1KK)

When used in combination with our original wall mount kit, LCD panels can be accessed from the front-side of the system, facilitating simple servicing of panels either from the front or rear (possible in both landscape and portrait orientations).



Colour Calibration for Multi-screen Applications (Option)

Utilising Mitsubishi Electric's original colour calibration software, the white point, brightness and gamma can be adjusted to ensure matching between adjacent panels.



Equipped with Intel® OPS Slot

LM55P1, LM46P1 and LM55S1 are equipped with an Open Pluggable Specification (OPS) slot. Simply install the optional computer board* to expand the scope of applications. A variety of peripheral equipment can be connected quickly and easily.

* ARK-DS262GQ-U5A1E is product of Advantech, Co., Ltd. Please contact the nearest dealership.



Compatible with Crestron RoomView™ & AMX Device Discovery

Both the LM55P1, LM46P1 and LM55S1 are compatible with both Crestron RoomView™ and AMX Device Discovery, widely used network management software. Control commands can be sent from a computer through the LAN network to enable setting changes and remote diagnosis of multiple displays for efficient centralised management.



Enhanced Connectivity with Digital Terminals

A full range of digital input terminals are provided, including one HDMI, one DVI-D and one DisplayPort. In addition, the DVI-D output terminal makes, daisy chaining multiple monitors possible.



The following conditions apply for daisy chain connections:
1) Depending on cable length and signal source, up to four monitors can be connected when daisy chaining.
2) POWER SAVE should be set to OFF.
Depending on computer compatibility, the POWER SAVE RGB setting may need to be set to OFF when using DisplayPort input.



Highly Reliable

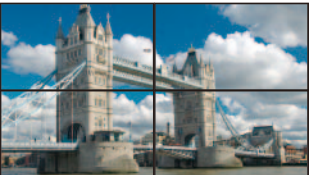
Mitsubishi Electric's super-narrow bezel product line utilises highly reliable commercial grade LCD panels and electrical components. Designed for durability and long-term use, they're ideal for applications such as flight information displays and digital signage boards.

Digital Gradation Circuit LM55P1 LM46P1

Our 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.



without Digital Gradation Circuit



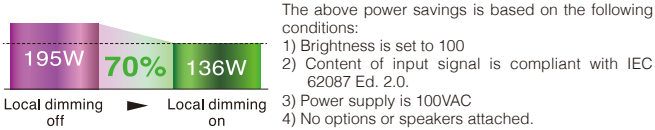
with Digital Gradation Circuit

Colour Space Control LM55P1 LM46P1

In addition to the Colour Calibration (Option), LM55P1 is equipped with an innovative digital colour space control circuit developed in-house for more precise colour and brightness adjustment as a LCD video wall. The circuit works to balance and blend colours, compensating for the colour and brightness discrepancies among panels. The ratios of each primary colour (Red/Green/Blue) and other colour mixtures are adjusted to provide consistent colour blending and superior uniformity on multi-screen configurations.

Local Dimming Function: Contrast Enhancement LM55S1

A local dimming function that automatically controls the level of backlighting according to image brightness has been added. By selectively controlling the amount of backlighting in dark areas of the image, black levels are significantly enhanced realizing an extremely high contrast ratio of 206,000:1. Power consumption is reduced approximately 30% when using this function.



Other Features

- PIP,POP and Side-by-side
- Digital Zoom
- SDI Connection (Option)
- Programmable Scheduling
- Screen-saver
- Power-on Delay
- LAN Control
- Display Port
- Built-in Speakers
- Remote Control (Option)
- Closed Caption