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

LM55P1(W) | LM55S1(W)
Ultra fine 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.

Full HD, LED-backlit LCD Panels

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

Enhanced Connectivity with Digital Terminals

A full range of digital input terminals are provided, including one HDMI, one DVI-D and one Display Port. 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 Display Port input.

Highly Reliable

Mitsubishi Electric’s super-narrow bezel product line utilizes 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.

Equipped with Intel® OPS Slot

LM55P1(W) and LM55S1(W) 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.

Color Calibration for Multi-screen Applications (Option)

Utilizing Mitsubishi Electric’s original color calibration software, the white point, brightness and gamma can be adjusted to ensure matching between adjacent panels.

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 for the panel bezel width enables extremely accurate image reproduction.

* ARK-DS262GQ-U5A1E is product of Advantech, Co., Ltd. Please contact a dealer near you.
Local Dimming Function: Contrast Enhancement - LM55S1(W)

A local dimming function has been added to automatically control the backlight level according to the image brightness. 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.

Compatible with Crestron RoomView™ & AMX® Device Discovery

Both the LM55P1(W) and LM55S1(W) 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 centralized management.

Color Space Control - LM55P1(W)

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

Digital Gradation Circuit - LM55P1(W)

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.

Optional Accessories

BR-LM1KK - Wall Mount Bracket
DP-1SDI-3G - SDI Box
DP-01RK - Remote Control Kit
OPS Compatible SDI Card
Remote Control Kit with an IR Sensor cable

The above power savings is based on the following conditions:
1. Brightness is set to 100
2. Content of input signal is compliant with IEC 62087 Ed. 2.0.
3. Power supply is 100VAC
4. No options or speakers attached.
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LM55P1(W)</th>
<th>LM55S1(W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>1215.5 x 686.3 x 128 mm (47.9&quot; x 27&quot; x 5&quot;)</td>
<td>1215 x 686.3 x 121.2mm (47.9&quot; x 27&quot; x 4.8&quot;)</td>
</tr>
<tr>
<td>Display Device</td>
<td>TFT LCD (SPVA)</td>
<td>TFT LCD (IPS)</td>
</tr>
<tr>
<td>Screen Surface Treatment</td>
<td>Anti-glare (Haze 44%)</td>
<td>Anti-glare (Haze 10%)</td>
</tr>
<tr>
<td>Mullion Size (total)</td>
<td>B-to-B 5.7 mm (Typ.) / A-to-A 5.9 mm (Typ.)</td>
<td>B-to-B 5.3 mm (Typ.) / A-to-A 5.9 mm (Typ.)</td>
</tr>
<tr>
<td>Display Resolution</td>
<td>Full HD (1920 x 1080 Pixels)</td>
<td>Full HD (1920 x 1080 Pixels)</td>
</tr>
<tr>
<td>Viewable Image Size</td>
<td>55&quot; (H: 1209.8 mm / V: 680.4 mm)</td>
<td>50&quot; (H: 1209.8 mm / V: 680.4 mm)</td>
</tr>
<tr>
<td>Rack Light Technology</td>
<td>LED (Univ.)</td>
<td>LED (Univ.)</td>
</tr>
<tr>
<td>Viewing Angle (H/V)</td>
<td>178 Degree (CR &gt; 10)</td>
<td>178 Degree (CR &gt; 10)</td>
</tr>
<tr>
<td>Display Orientation</td>
<td>Landscape / Portrait</td>
<td>Landscape / Portrait</td>
</tr>
<tr>
<td>Brightness</td>
<td>700cd/m² (Typ., High Bright mode)</td>
<td>500cd/m² (Typ., High Bright mode)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>3,500:1 (Typ.)</td>
<td>1,300:1 (Typ.)</td>
</tr>
<tr>
<td>Display Colors</td>
<td>16.7 million</td>
<td>1.06 billion</td>
</tr>
</tbody>
</table>

Input Connectors
- Video: DVI-D (with HDCP) x 1, HDMI x 1, Display Port (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: 31.5-91KHz, V: 58-85Hz, Pixel clock: 25-165MHz

Power Consumption
- 210W (Typ., High Bright mode) | 195W (Typ., High Bright mode)
- 180W (Typ., Standard mode) | 162W (Typ., Standard mode)

Voltage Range
- 100-240VAC ±10%, 50/60Hz ±1Hz

Weight
- 37kg / 82lbs

Operation Environment
- 5-35°C (41-95°F) / 20-80% relative humidity
- 0-40°C (32-104°F) / 20-80% relative humidity

Other Features
- Intel OPS slot x 1
- Built-in stereo speakers (10W=10W)

Connector Terminals

2 X 2 MULTI DISPLAY BUNDLE KIT

LM55S1-2X2B - Multi Display Bundle Kit for LM55S1(W) Monitor

The LM55S1-2X2B is a 2x2 multi display bundle kit for the LM55S1(W) monitor. The kit includes 4 LM55S1(W) monitors, 4 BR-LM1KK wall mount brackets and 1R remote kit. It also includes four 4m DVI-D cables for daisy chain connection between the monitors, one 5m DVI-D cable for main source connection and two 6 outlet surge suppressors. This bundle includes everything needed to install a 2x2 multi display system.

Available in the US market. Please consult your respective Mitsubishi representative for more information about buying and saving by using the conveniently packaged 2x2 bundle.

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.

New publication effective September 2013. Specifications are subject to change without notice.