49-inch Class FULL HD LCD Display
TH-49SF2U

Product specification (design and specification subject to change without notice)

### DISPLAY PANEL
- **Screen Size (Diagonal):** 48.5-inch (1232 mm)
- **Panel type:** IPS / Edge-LED
- **Aspect ratio:** 16:9
- **Effective Display Area (W x H):** 42.2" x 23.7" (1073 x 604 mm)
- **Number of pixels (H x V):** 1920 x 1080 pixels
- **Brightness:** 450 cd/m² (typ.)
- **Contrast Ratio:** 1100:1 (typ.)
- **Dynamic Contrast:** 50000:1 (typ.)
- **Response Time:** 12 ms (typ.) (G to G)
- **Viewing Angle (Horizontal / Vertical):** 178° / 178°  (CR ≧ 10)
- **Panel Life Time:** *1 approx. 50000 hours (typ)
- **Panel Surface Treatment:** Anti glare type (Haze 1%)

*1 When the panel lifetime is at 50% of the brightness under the condition of 25 degrees Celsius (+/- 2 degrees Celsius).

### CONNECTION TERMINAL
- **HDMI IN**
  - HDMI Type A Connector x 2
  - Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)
- **VIDEO/ AUDIO IN (AV IN)**
  - 4 Port mini Jack (M3) x 1 / x 1
  - VIDEO: 1.0 V [p-p] (75 Ω )
  - AUDIO: 0.5 V [rms]
- **DVI-D IN**
  - DVI-D 24-pin x 1
  - Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
- **DVI-D OUT**
  - DVI-D 24-pin x 1
  - Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
- **PC IN**
  - Mini D-Sub 15-pin (DDC2B) x 1
  - Y/G: HD/VD TTL (high impedance)
- **SERIAL IN / OUT**
  - D-sub 9 pin x 1 / x 1, RS-232C Compatible
- **LAN**
  - RJ45 x 1, 10BASE-T/100BASE-TX, Compatible with PJLink
- **IR TRANSMITTER IN / OUT**
  - Stereo Mini Jack (M3) x 1 / x 1
  - Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 k Ω Load)
- **USB**
  - USB 2.0 (Type A connector x 1 DC 5 V/1A (USB 3.0 is not supported.)

### AUDIO
- **Built in Speaker:** 20 W [10 W +10 W]

### ELECTRICAL
- **Power Requirements:** AC 110 - 127 V 50/60 Hz
- **Power Consumption:** 110 W
- **On Mode Average Power Consumption:** 73 W
- **Power Off Condition:** approx. 0.3 W
- **Stand-by Condition:** approx. 0.5 W
- **Apparent power:** 0.0 VA

### MECHANICAL
- **Dimensions (W x H x D):** 43.2" x 24.9" x 1.8" (1098 x 634 x 46 mm)
- **Weight:** approx. 32.4 lbs. (14.7 kg)
- **Bezel Color:** Black
- **Bezel Width:** 1/8/1/0.38" (9.5 mm), 0.62" (15.5 mm)
- **Carton Dimensions (W x H x D):** 50.9" x 34.8" x 8.0" (1292 x 883 x 203 mm)
- **Gross Weight:** approx. 44.5 lbs. (20 kg)
- **Cabinet Material:** Front: Metal / Back: Plastic
- **Pitch for Wall-Hanging:** VESA Compliant 15.7" x 15.7" (400 x 400 mm) (Installed by: M6 screws / Screw hole depth 0.39" (10 mm))

### INSTALLATION
- **Orientation:** Landscape / Portrait (Rotation: Up to 45 degrees for each right and left with the display installed landscape)
- **Tilting Angle:** Landscape: 0 - 45 degrees forward / backward
- **Portrait:** 0 - 45 degrees forward / backward

*Please contact your sales representative with regard to the tilt angle before installation.

*When you install the product upright, be sure to make the power lamp of the main body come to the upper side.

### ENVIRONMENTAL
- **Operating Environment**
  - Temperature: 32° F to 104° F (0° C to 40° C ) *1, *2
  - Humidity: 20% to 80% (No condensation)

- **Storage Environment**
  - Temperature: -4° F to 140° F (-20° C to 60° C)
  - Humidity: 20% to 80% (No condensation)

*1 : for up to 4593 ft (1400 m) altitude
*2 : for between 4593 ft (1400 m) and 9186 ft (2800 m) altitude

Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction.

This unevenness will disappear while applying current continuously. If not, consult the distributor.

### UPC Code
885170314757
**MAIN FEATURE**

- USB Media Player: YES
- Failback / Failover: YES
- Data Comm: YES
- Digital ZOOM: YES
- Multi display settings: YES
- Power on screen delay: YES
- Auto setting: YES
- Screen saver: YES
- HDMI power management: YES
- PC power management: YES
- DVI-D power management: YES
- Power save: YES
- Button lock: YES
- Controller user level: YES
- Input search: YES
- 6-segment color management: YES
- Dynamic contrast: YES
- Colour enhancement: YES
- Refine enhancer: YES
- Gradation smoother: YES
- Set up timer: YES
- AMX D.D.: YES
- Extron XTP: YES
- WEB Browser control: YES
- PLINK: YES
- Image compatible: YES
- Input Detection: YES
- HDMI CEC compatible: YES
- Viewer: YES
- Early Warning Software compatible: YES
- Multi Monitoring & Control Software compatible: YES
- Video Wall Manager compatible: YES
- CMS Content management compatible: YES
- Software compatible: YES

**STANDARD (CERTIFICATIONS)**

- **SAFETY REGULATIONS**
  - Mexico: UL Certificate of Compliance (UL Mexico issue)

- **RADIATION REGULATIONS**
  - FCC 47 CFR, Part 15, Subpart B Class A
  - ICES-003

**REMOTE CONTROL TRANSMITTER**

- Power Requirements: DC 3 V (2 x AAA Size batteries)
- Operating distance: approx. 23 ft (7 m)*
- Weight: approx. 2.2 oz (63 g) including batteries
- Dimensions (W x H x D): 1.9" x 5.3" x 0.8" (48 x 134 x 20 mm)

*When operated directly in front of receptor.

**INCLUDED ACCESSORIES**

- AC cord (70.9" (1.8 m))
- Remote Control
- Batteries (AAA size) x 2
- Clamper x 3

**OPTIONAL ACCESSORIES**

- Pedestal Stand: TY-ST43PE9

**DIMENSIONS**

- Effective Display Area: 22.2 (1073.7)
- 0.38 (9.5) 0.38 (9.5)
- 1.8 (46)
- 0.62 (15.5) 0.38 (9.5)
- 15.8 (400)
- 24.9 (634)
- 0.7 (16.6) 0.9 (22) 0.1 (3.4)
- M6 Screw hole depth 10 mm

**CONNECTION TERMINAL**

- Operating Time* 24h/day
  - The brightness of the display panel is equivalent to about 75% its full capacity, when the Light ID is transmitted. The displayed image may flicker, but this is due to a change in the brightness during Light ID transmission and not due to trouble.
  - In case of running for a long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen. However, image retention can gradually disappear by displaying a moving images.

* Specifications and appearance are subject to change without notice.
<table>
<thead>
<tr>
<th>Correspondence signal</th>
<th>Resolution (dot)</th>
<th>Scan rate</th>
<th>Dot clock rate (MHz)</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC/NTSC4.43/ PAL M/PAL60</td>
<td>1920 x 1080</td>
<td>60.00</td>
<td>74.25 R/Y/D/H</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>576/50i</td>
<td>1920 x 1080</td>
<td>60.00</td>
<td>74.25 R/Y/D/H</td>
<td>1920 x 1080</td>
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<td>1920 x 1080</td>
<td>60.00</td>
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<td>720/50i</td>
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<tr>
<td>720/60i</td>
<td>1280 x 720</td>
<td>60.00</td>
<td>74.25 R/Y/D/H</td>
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</tr>
<tr>
<td>720/60p</td>
<td>1280 x 720</td>
<td>60.00</td>
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<td>1080/50i</td>
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<td>148.50 R/Y/D/H</td>
<td>1920 x 1080</td>
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<tr>
<td>1080/50p</td>
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<td>60.00</td>
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<td>1920 x 1080</td>
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<tr>
<td>1080/60i</td>
<td>1920 x 1080</td>
<td>60.00</td>
<td>148.50 R/Y/D/H</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>1080/60p</td>
<td>1920 x 1080</td>
<td>60.00</td>
<td>148.50 R/Y/D/H</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>1280 x 720</td>
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<td>60.00</td>
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<td>60.00</td>
<td>148.50 R/Y/D/H</td>
<td>1920 x 1080</td>
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<tr>
<td>1080/60p</td>
<td>1920 x 1080</td>
<td>60.00</td>
<td>148.50 R/Y/D/H</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>1280 x 720</td>
<td>1280 x 720</td>
<td>60.00</td>
<td>74.25 R/Y/D/H</td>
<td>1280 x 720</td>
</tr>
<tr>
<td>1280 x 800</td>
<td>1280 x 800</td>
<td>60.00</td>
<td>71.00 R/Y/D/H</td>
<td>1280 x 800</td>
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<td>1280 x 850</td>
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<td>60.00</td>
<td>71.00 R/Y/D/H</td>
<td>1280 x 850</td>
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<td>1360 x 768</td>
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<td>79.50 R/Y/D/H</td>
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<td>60.00</td>
<td>79.50 R/Y/D/H</td>
<td>1360 x 768</td>
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<tr>
<td>1366 x 768</td>
<td>1366 x 768</td>
<td>60.00</td>
<td>79.50 R/Y/D/H</td>
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<td>88.75 R/Y/D/H</td>
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<td>60.00</td>
<td>88.75 R/Y/D/H</td>
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<td>1600 x 900</td>
<td>1600 x 900</td>
<td>60.00</td>
<td>108.00 R/Y/D/H</td>
<td>1600 x 900</td>
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<tr>
<td>1600 x 900</td>
<td>1600 x 900</td>
<td>60.00</td>
<td>108.00 R/Y/D/H</td>
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<td>1600 x 900</td>
<td>60.00</td>
<td>108.00 R/Y/D/H</td>
<td>1600 x 900</td>
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<tr>
<td>1600 x 900</td>
<td>1600 x 900</td>
<td>60.00</td>
<td>108.00 R/Y/D/H</td>
<td>1600 x 900</td>
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<tr>
<td>1680 x 1050</td>
<td>1680 x 1050</td>
<td>60.00</td>
<td>146.25 R/Y/D/H</td>
<td>1680 x 1050</td>
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<td>1680 x 1200</td>
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<td>60.00</td>
<td>162.00 R/Y/D/H</td>
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<tr>
<td>1920 x 1080</td>
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<td>138.50 R/Y/D/H</td>
<td>1920 x 1080</td>
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<td>1920 x 1200</td>
<td>60.00</td>
<td>148.50 R/Y/D/H</td>
<td>1920 x 1200</td>
</tr>
</tbody>
</table>

**Note:** The signal format distinguished automatically will be sometimes indicated different from an actual input signal.

*1: When 1125 (1035) / 60 signal is input, it is displayed as 1125 (1080) / 60 signal.
*2: Pixel-Repetition signal (dot clock frequency 27.0 MHz) only
*3: Displayed with image elements thinned out in the image processing circuit.
*4: Based on VESA CVT-RB (Reduced Blanking) standard
**Drawing of terminals**

View from back

Magnified figure of terminal a

Magnified figure of terminal b

Sectional view of terminal a (USB/DVI-D OUT/DVI-D IN/HDMI 1,2/LAN/PC IN)

**Terminal a**
49SF2U Terminal (Side)

Units : inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>USB</th>
<th>DVI-D IN/OUT</th>
<th>HDMI</th>
<th>LAN</th>
<th>PC IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.31 (7.8)</td>
<td>0.35 (8.8)</td>
<td>0.28 (7.2)</td>
<td>0.35 (8.8)</td>
<td>0.39 (10)</td>
</tr>
<tr>
<td>B</td>
<td>0.22 (5.6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>0.98 (24.9)</td>
<td></td>
<td></td>
<td>0.21 (5.3)</td>
</tr>
<tr>
<td>D</td>
<td>2.15 (54.6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sectional view of terminal b (IR OUT/SERIAL IN/OUT/AUDIO OUT/IR IN/AV IN)

**(on the product side)**

**Terminal b**
49SF2U Terminal (Bottom)

Units : inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>IR OUT</th>
<th>SERIAL IN/OUT</th>
<th>AUDIO OUT/IR IN</th>
<th>AV IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.11 (2.7)</td>
<td>0.2 (5.2)</td>
<td>0.11 (2.7)</td>
<td>0.07 (1.7)</td>
</tr>
<tr>
<td>B</td>
<td>0.4 (10.1)</td>
<td>0.4 (10.1)</td>
<td>0.4 (10.1)</td>
<td>0.37 (9.3)</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>0.98 (24.9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>2.72 (69.3)</td>
<td>1.61 (40.9)</td>
<td>2.72 (69.3)</td>
<td></td>
</tr>
</tbody>
</table>

*Due to the construction of terminal, some types of connecting cable or USB memory device cannot be used.
Be sure to use connecting cable or USB memory device after confirmation in this drawing.
Installation precautions

The SF2 Series is designed for use in either portrait or horizontal orientation with angle adjustment. Tilting installation up to 45 degrees forward or backward is also possible. You can install as shown the example figures.

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Landscape (The angle can be adjusted up to 45 degrees for each right and left (with the display installed landscape).)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilting angle</td>
<td>0 - 45 degrees forward / backward with landscape / portrait setting (Angle adjustment is not possible for forward / backward tilting installation.)</td>
</tr>
</tbody>
</table>

◆ Orientation

Angle adjustment (0-45° for both left and right)

Landscape orientation

◆ Tilting angle

Forward tilting

Landscape orientation

Portrait orientation

Backward tilting

Landscape orientation

Portrait orientation