55-inch Class FULL HD LCD Display

TH-55LF80U

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

■ DISPLAY PANEL

Screen Size (Diagonal) 54.6-inch (1387 mm)
Panel type IPS / Edge-LED
Aspect ratio 16:9
Effective Display Area (W x H) 47.6" x 26.7" (1209 x 680 mm)
Number of pixels (H x V) 1920 x 1080 pixels
Brightness 700 cd/m² (Typ)
Contrast Ratio 1300:1
Dynamic Contrast 50000:1
Response Time 8 ms (G to G)
Viewing Angle (Horizontal / Vertical) 178° / 178° (CR ≧ 10)
Panel Surface Treatment Anti glare (Haze 10%)
Panel Life Time*1 approx. 60000 hours (typ)

*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)

COMPONENT/RGB IN
BNC x 1 set
Y/Pb/Cb/Pr: BNC Contact Plug with sync 1.0 Vp-p (75 Ω)
Pb/Cb/Pr: BNC Contact Plug with sync 0.7 Vp-p (75 Ω)

AUDIO IN
Stereo Mini Jack (M3) x 1 (Shared with VIDEO IN)*1

VIDEO IN
BNC x 1 (Shared with COMPONENT/RGB Y/G)
0.7 Vp-p (75 Ω)

AUDIO OUT
Stereo Mini Jack (M3) x 1 (Shared with COMPONENT IN)*1

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 x 1 (Female)

AUDIO IN
Stereo Mini Jack (M3) x 1 (Shared with DVI-D IN)

SERIAL IN/OUT
D-sub 9pin x 1/ x 1, RS-232C Compatible

LAN/DIGITAL LINK IN
RJ45 x 1 100BASE-TX, Compatible with PJLink

IR TRANSMITTER IN / OUT
Stereo Mini Jack (M3) x 1 / x 1

USB
USB 2.0 Type A connector x 1
DC 5 V/1A (USB3.0 is not supported.)

■ SPEAKER

Built in Speaker 20 W [10 W+10 W]

■ ELECTRICAL

Power Requirements 110 - 127 V AC 50 / 60 Hz
Power Consumption 190 W
On Mode Average Power Consumption*1 145 W
Power Off Condition approx. 0.3 W
Standby Condition approx. 0.5 W
Apparent power 200 VA

*1 Based on IEC 62087 Ed.2 measurement method

■ MECHANICAL

Dimensions (W x D x H) 48.4" x 27.6" x 2.8" (1229 x 699 x 72mm)
Dimensions (W x D x H) (excluding handle part) 48.4" x 27.6" x 2.3" (1229 x 699 x 57mm)
Weight approx. 54.5 lbs. (24.7 kg)
Bezel Width T/R/L/B : 0.25" (6.3 mm)
Carton Dimensions (W x H x D) 56.9" x 36.3" x 8.8" (1444 x 922 x 223 mm)
Gross Weight approx. 70.6 lbs. (32.0 kg)
Cabinet Material / Color Metal / Black
Pitch for Wall-Hanging VESA Compliant 15.8" x 15.8" (400 x 400 mm) (Installed by: M6 screws / Screw hole depth 0.4" (10 mm))

■ INSTALLATION REQUIREMENT

Orientation Landscape/Portrait (Angle adjustment 0-45 degrees for both left and right)
Tilting Angle 0-45 degrees forward/backward with landscape/portrait setting

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

■ ENVIRONMENTAL

Operating Environment Temperature : -32 °F to 104 °F (-35 ℃ to 40 ℃) *1
Humidity*: 20% to 80% (86% condensation)
Altitude*: 0 to 9186 ft (0 to 2800 m)
Storage Environment Temperature : -4 °F to 140 °F (-20 to 60 ℃)
Humidity*: 20% to 80% (66% 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 885170240285
**MAIN FEATURE**

- USB Media Player: Yes
- Fail back & Fail over: Yes
- Data Cloning: Yes
- Early Warning Software compatible: Yes
- Multi Monitoring & Control Software compatible: Yes
- Operating Time: 24h/7d
- Digital Zoom: Yes
- Multi Display: Yes
- Power ON Screen Delay: Yes
- 1:1 Pixel mode: Yes
- Auto setup: Yes
- Screen Saver: Yes
- HDMI Power Management: Yes
- DIGITAL LINK Power Management: Yes
- PC Power Management: Yes
- DVI-D Power Management: Yes
- Button Lock: Yes
- Remote-control User Level: Yes
- Input Search: Yes

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.

**STANDARD (CERTIFICATIONS)**

- **SAFETY REGULATIONS**: UL60950-1
- **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. 2.3 ft (7 m)
- **Weight**: approx. 2 oz (63 g) including batteries
- **Dimensions (W x H x D)**: 1.7" x 4.1" x 0.8" (44 x 105 x 20.5 mm)

*When operated directly in front of receptor.

**INCLUDED ACCESSORIES**

- AC cord (79" (2.0 m))
- Remote Control
- Batteries (AAA size) x 2
- Clamper x 3
- Operating instruction book

**OPTIONAL ACCESSORIES**

- Pedestal Stand: TY-ST43PE8

**DIMENSIONS**

Cautions: This drawing is not a scale

Units: inches (mm)

**CONNECTION TERMINAL**

* Specifications and appearance are subject to change without notice.
### List of correspondence signals

The picture signal which can indicate this machine is as it is the following table.

<table>
<thead>
<tr>
<th>Correspondence signal</th>
<th>Resolution (dot)</th>
<th>Scan rate</th>
<th>Dot clock rate (MHz)</th>
<th>Input format</th>
<th>DIGITAL LINK</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC/NTSC4.43/ PAL-M/PAL60</td>
<td>720 x 480</td>
<td>15.73</td>
<td>59.94</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td>PAL/PALN/SECAM</td>
<td>720 x 576</td>
<td>15.63</td>
<td>50.00</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td>525i (480i)</td>
<td>720 x 483</td>
<td>31.47</td>
<td>59.94</td>
<td>27.00</td>
<td>D/H</td>
</tr>
<tr>
<td>625i (576i)</td>
<td>720 x 576</td>
<td>31.25</td>
<td>50.00</td>
<td>27.00</td>
<td>D/H</td>
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<td>D/H</td>
</tr>
</tbody>
</table>

*● The signal format distinguished automatically will be sometimes indication different from an actual input signal.

*1: When 1125 (1035) /60i signal is input, it is displayed as 1125 (1080) /60i 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
55-inch Class FULL HD LCD Display

**Drawing of terminals**

View from back

Magnified figure of terminal a

Magnified figure of terminal b

Sectional view of terminal a

(Providing terminal configuration and dimensions)

Terminal a

55LF8/80 Terminal (Bottom)

<table>
<thead>
<tr>
<th></th>
<th>PC</th>
<th>AUDIO</th>
<th>COMPONENT</th>
<th>DIGITAL LINK/LAN</th>
<th>HDMI</th>
<th>DVI-D</th>
<th>USB</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.67 (17.1)</td>
<td>0.68 (17.3)</td>
<td>0.74 (18.9)</td>
<td>0.6 (15.2)</td>
<td>0.56 (14.2)</td>
<td>0.62 (15.8)</td>
<td>0.58 (14.8)</td>
</tr>
<tr>
<td>B</td>
<td>0.17 (4.3)</td>
<td>0.07 (1.7)</td>
<td>0.43 (10.8)</td>
<td>0.19 (4.7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>1.26 (32.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sectional view of terminal b

(Providing terminal configuration and dimensions)

Terminal b

55LF8/80 Terminal (Side)

<table>
<thead>
<tr>
<th></th>
<th>SERIAL</th>
<th>IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.55 (14.0)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>0.16 (4.0)</td>
<td>0.06 (1.5)</td>
</tr>
<tr>
<td>C</td>
<td>1.14 (28.9)</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 LF80/8 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 in the example figures.

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Landscape/Portrait (Angle adjustment 0 - 45 degrees for both left and right)</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**

<table>
<thead>
<tr>
<th>Angle adjustment (0-45° for both left and right)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Landscape orientation" /> 45° 45°</td>
</tr>
<tr>
<td><img src="image2.png" alt="Portrait orientation" /> 45° 45°</td>
</tr>
</tbody>
</table>

**Tilting angle**

<table>
<thead>
<tr>
<th>Forward tilting</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Landscape orientation" /> 45°</td>
</tr>
<tr>
<td><img src="image4.png" alt="Portrait orientation" /> 45°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Backward tilting</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Landscape orientation" /> 45°</td>
</tr>
<tr>
<td><img src="image6.png" alt="Portrait orientation" /> 45°</td>
</tr>
</tbody>
</table>