49-inch Class FULL HD LCD Display
TH-49LF8U

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

■ DISPLAY PANEL
Screen size (Diagonal) 49-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 500 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
COMPONENT/RGB IN BNC x 1 set
Y/G : BNC Contact Plug with sync 1.0 Vp-p (75 Ω)
P/C/B : BNC Contact Plug with sync 0.7 Vp-p (75 Ω)
P/C/R : BNC Contact Plug with sync 0.7 Vp-p (75 Ω)
AUDIO IN Stereo Mini Jack (M3) x 1 (Shared with VIDEO IN)
VIDEO IN BNC x 1 (Shared with COMPONENT/RGB Y/G)
1.0 Vp-p (75 Ω)
0.5 Vrms
AUDIO OUT Stereo Mini Jack (M3) x 1 (Shared with PC IN) 0.5 Vrms
DV-D IN DVI-D 24-pin x 1 Compliance with DVI Revision 1.0 Compatibility with HDCP 1.1
DV-D OUT DVI-D 24-pin x 1 Compliance with DVI Revision 1.0 Compatibility with HDCP 1.1
PC IN Mini D-Sub 15-pin x 1 (Female) Y/G
: with sync 1.0 Vp-p (75 Ω)
P/C/B : without sync 0.7 Vp-p (75 Ω)
P/C/R : without sync 0.7 Vp-p (75 Ω)
HD/VD : 1.0 - 5.0 Vp-p (high impedance)
AUDIO IN Stereo Mini Jack (M3) x 1 (Shared with DV-D IN) 0.5 Vrms
SERIAL IN/OUT D-sub 9pin 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
AUDIO OUT Stereo Mini Jack (M3) x 1 Variable (- ∞ - 0 dB) (1 kHz 0 dB Input, 10 k Ω Load) 0.5 Vrms
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 160 W
On Mode Average Power Consumption*1 115 W
Power Off Condition approx. 0.3 W
Standby Condition approx. 0.5 W
Apparent power 170 VA
*1 Based on IEC 62087 Ed.2 measurement method

■ MECHANICAL
Dimensions (W x H x D) 43.1" x 24.6" x 2.8" (1093 x 623 x 72 mm)
Dimensions (W x H x D) (excluding handle part) 43.1" x 24.6" x 2.3" (1093 x 623 x 57 mm)
Weight approx. 41.9 lbs. (19.0 kg)
Bezel Color Black
Bezel Width 1.0/1.8 : 0.25" (6.3 mm)
Carbon Dimensions (W x H x D) 31.3" x 25.8" x 9.1" (795 x 656 x 235 mm)
Gross Weight approx. 57.4 lbs. (26.0 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
(Angle adjustment is not possible for forward/backward tilting installation.)
*Please contact your sales representative with regard to the tilt angle before installation.

■ ENVIRONMENTAL
Operating Environment Temperature : 32 ° F to 104 ° F (0 ℃ to 40 ℃)*1
Humidity : 20% to 80% (No 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% (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
885170240360
49-inch Class FULL HD LCD Display

TH-49LF8U

**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
- **PC Power Management**: Yes
- **DVI-D Power Management**: Yes
- **Input Lock**: 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 image.

**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. 2.2 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)

<table>
<thead>
<tr>
<th>Width (W)</th>
<th>Height (H)</th>
<th>Depth (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.4&quot;</td>
<td>1073&quot;</td>
<td>604&quot;</td>
</tr>
<tr>
<td>7.9&quot;</td>
<td>15.8&quot;</td>
<td>0.36&quot;</td>
</tr>
</tbody>
</table>

**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>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC/NTSC4.43/ PAL-M/PAL60</td>
<td>720 x 480i</td>
<td>15.73</td>
<td>59.94</td>
<td>V</td>
</tr>
<tr>
<td>PAL/PAL-N/SECAM</td>
<td>720 x 576i</td>
<td>15.63</td>
<td>50.00</td>
<td>V</td>
</tr>
<tr>
<td>525i (480i)</td>
<td>720 x 480</td>
<td>15.73</td>
<td>59.94</td>
<td>13.50</td>
</tr>
<tr>
<td>525p (480p)</td>
<td>720 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>27.00</td>
</tr>
<tr>
<td>750 (720) /60p</td>
<td>1280 x 720</td>
<td>45.00</td>
<td>60.00</td>
<td>74.25</td>
</tr>
<tr>
<td>750 (720) /50p</td>
<td>1280 x 720</td>
<td>37.50</td>
<td>50.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1125 (1080) /60i</td>
<td>1920 x 1080</td>
<td>33.75</td>
<td>60.00</td>
<td>148.50</td>
</tr>
<tr>
<td>1125 (1080) /50i</td>
<td>1920 x 1080</td>
<td>27.00</td>
<td>24.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1125 (1080) /24PsF</td>
<td>1920 x 1080</td>
<td>27.00</td>
<td>48.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1125 (1080) /25p</td>
<td>1920 x 1080</td>
<td>28.13</td>
<td>25.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1125 (1080) /30p</td>
<td>1920 x 1080</td>
<td>33.75</td>
<td>30.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1125 (1080) /60p</td>
<td>1920 x 1080</td>
<td>15.25</td>
<td>60.00</td>
<td>148.50</td>
</tr>
<tr>
<td>VESA400</td>
<td>640 x 400</td>
<td>31.47</td>
<td>70.09</td>
<td>25.18</td>
</tr>
<tr>
<td>640 x 480</td>
<td>31.50</td>
<td>85.08</td>
<td>31.50</td>
<td>R/Y</td>
</tr>
<tr>
<td>VGA</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>15.28</td>
</tr>
<tr>
<td>SXGA</td>
<td>800 x 600</td>
<td>35.16</td>
<td>56.25</td>
<td>36.00</td>
</tr>
<tr>
<td>WSVGA</td>
<td>1066 x 600</td>
<td>37.64</td>
<td>59.94</td>
<td>53.00</td>
</tr>
<tr>
<td>MAC16</td>
<td>832 x 624</td>
<td>49.72</td>
<td>74.55</td>
<td>57.28</td>
</tr>
<tr>
<td>852 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>34.24</td>
<td>D/H</td>
</tr>
<tr>
<td>XGA</td>
<td>1024 x 768</td>
<td>39.55</td>
<td>50.00</td>
<td>51.89</td>
</tr>
<tr>
<td>SXGA</td>
<td>1280 x 1024</td>
<td>45.71</td>
<td>59.95</td>
<td>122.61</td>
</tr>
<tr>
<td>MSXGA</td>
<td>1280 x 960</td>
<td>60.00</td>
<td>60.00</td>
<td>108.00</td>
</tr>
<tr>
<td>WXGA</td>
<td>1440 x 900</td>
<td>55.47</td>
<td>60.00</td>
<td>108.00</td>
</tr>
<tr>
<td>1360 x 768</td>
<td>1360 x 768</td>
<td>47.71</td>
<td>59.95</td>
<td>157.50</td>
</tr>
<tr>
<td>1600 x 900</td>
<td>1600 x 900</td>
<td>47.71</td>
<td>59.95</td>
<td>157.50</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
Drawing of terminals

View from back

Magnified figure of terminal b

Magnified figure of terminal a

Sectional view of terminal a
(PC/AUDIO/COMPONENT/DIGITAL LINK/LAN/HDMI/DVI-D/USB)

Terminals
(on the product side)

Terminal a
49LF8/80 Terminal (Bottom)

Units: inches (mm)

<table>
<thead>
<tr>
<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</td>
<td>0.68</td>
<td>0.74</td>
<td>0.6</td>
<td>0.56</td>
<td>0.62</td>
</tr>
<tr>
<td></td>
<td>(17.1)</td>
<td>(17.3)</td>
<td>(18.9)</td>
<td>(15.2)</td>
<td>(14.2)</td>
<td>(15.8)</td>
</tr>
<tr>
<td>B</td>
<td>0.17</td>
<td>0.07</td>
<td>0.43</td>
<td></td>
<td>0.19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(4.3)</td>
<td>(1.7)</td>
<td>(10.8)</td>
<td></td>
<td>(4.7)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td>1.26</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(32.0)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sectional view of terminal b
(SERIAL/IR)

Terminals
(on the product side)

Terminal b
49LF8/80 Terminal (Side)

Units: inches (mm)

<table>
<thead>
<tr>
<th>SERIAL</th>
<th>IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.55 (14.0)</td>
</tr>
<tr>
<td>B</td>
<td>0.16 (4.0)</td>
</tr>
<tr>
<td>C</td>
<td>1.14 (28.9)</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 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</td>
</tr>
<tr>
<td></td>
<td>(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
  - Portrait orientation

**Tilting angle**

- **Forward tilting**
  - Landscape orientation
  - Portrait orientation

- **Backward tilting**
  - Landscape orientation
  - Portrait orientation