80-inch Class FULL HD LCD Display

TH-80SF2HU

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

■ DISPLAY PANEL

Screen Size (Diagonal): 80.0-inch (2032 mm)
Panel type: VA / Edge-LED
Aspect ratio: 16:9
Effective Display Area (W x H): 69.7" x 39.2" (1771 x 996 mm)
Number of pixels (H x V): 1920 x 1080 pixels
Brightness: 700 cd/m² (typ.)
Contrast Ratio: 5000:1
Dynamic Contrast: 50000:1
Max. Display Colors: Approx. 1.0 Billion
Response Time: 4.0 ms (G to G)
Viewing Angle (Horizontal / Vertical): 176° / 176° (CR ≧ 10)
Panel Life Time*: Approx. 50000 hours
Panel Surface Treatment: Anti glare type (Haze 5%) and Hard coating : 2H

*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-pole Mini Jack (M3) x 1
  (AUDIO IN Shared with DVI-D IN, PC IN)
  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
  VIDEO: with sync 1.0 V [p-p] (75 Ω )
  : without sync 0.7 V [p-p] (75 Ω )
  P/C/B: 0.7 V [p-p] (75 Ω )
  P/C/G: 0.7 V [p-p] (75 Ω )
  HD/VD: TTL (high impedance)
SERIAL IN / OUT: D-sub 9-pin x 1 / x 1, RS-232C Compatible
IR TRANSMITTER IN / OUT: Stereo Mini Jack (M3) x 1 / x 1
  Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 k Ω Load)
LAN / DIGITAL LINK: RJ45 x 1 100BASE-TX, compatible with PJLink
  TM (Long reach mode compatible when using DIGITAL LINK)
USB: USB 2.0 Type A Connector x 1 DC 5 V/1A (USB 3.0 is not supported.)

■ AUDIO

Built in Speaker: 10W (8 Ω Full Range : 15 mm x 25 mm / Φ 70 mm) x 2
Built in Speaker Out: 20 W [10 W +10 W]

■ ELECTRICAL

Power Requirements: AC 110 - 127 V 50/60 Hz
Power Consumption: 380 W
On Mode Average Power Consumption*: 356 W
Power Off Condition: Approx. 0.3 W
Stand-by Condition: Approx. 0.5 W
Apparent power: 382 VA

* Based on IEC 62087 Ed.2 measurement method

■ MECHANICAL

Dimensions (W x H x D): 72.3" x 41.8" x 3.3" (1835 x 1060 x 82 mm)
Weight: 135 lbs. (62 kg)
Bezel Color: Black
Bezel Width: R/L/T/B 1.12" (28.5 mm)
Carton Dimensions (W x H x D): 77.6" x 46.9" x 13.9" (1970 x 1191 x 351 mm)
Gross Weight: 159 lbs. (73 kg)
Cabinet Material: Front: Metal / Back: Metal
Pitch for Wall-Hanging VESA Compliant 23.6" x 15.8" (600 x 400 mm) (Installed by: M6 screws / Screw hole depth 0.47" (12 mm))

■ INSTALLATION

Orientation: Landscape / Portrait / Angle adjustment 0-45 degrees for both left and right (Landscape setting only)
Tilting Angle: 0-20 degrees forward / backward with landscape / portrait setting
*Please contact your sales representative with regard to the tilt angle before installation.
*When installing the Display vertically, be sure that the Power Indicator comes to the lower side.

■ ENVIRONMENTAL

Operating Environment: Temperature: -32° F to 104° F (0℃ to 40℃ )
  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: 885170322356
80-inch Class FULL HD LCD Display

TH-80SF2HU

**MAIN FEATURE**

- **USB Media Player**: YES
- **Failover / Failback**: YES
- **Data Cloning**: YES
- **Multi display setting**: YES
- **Power on screen delay**: YES
- **Auto setting**: YES
- **Power management**: HDMI/DIGITAL LINK/PC/DVI-D
- **Power save**: YES
- **Button lock**: YES
- **Controller user level**: YES
- **Input search**: YES
- **6-segment colour management**: YES
- **Gradation smoother**: YES
- **Frame Creation**: YES (Always compatible)
- **Dynamic backlight control**: YES
- **Set up timer**: YES
- **Crestron Connected**: YES
- **Extron XTP**: YES
- **WEB Browser control**: YES
- **PJlink**: YES
- **Image compatible**: YES
- **Input detection**: YES
- **HDMI/CEC compatible**: YES
- **Viewer**: YES
- **Playlist Editing Function**: YES
- **Operating Time**: 24h/day

*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.

**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)
- **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

**DIMENSIONS**

Cautions: This drawing is not a scale

Units : inches (mm)

**CONNECTION TERMINAL**

*Cautions and appearance are subject to change without notice.

**STANDARD (CERTIFICATIONS)**

- **Mexico**: UL Certificate of Compliance (UL Mexico issue)
- **RADIATION REGULATIONS**: FCC 47 CFR, Part 15, Subpart B Class A

**INCLUDED ACCESSORIES**

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

**Compatible Software**

- Multi Monitoring & Control Software Ver 2.0 or later
- Content Management Software Ver 3.1 or later
- Video Wall Manager Ver 1.8 or later

**OPTIONAL ACCESSORIES**

- Pedestal Stand: TY-ST75PE9
- Early Warning Software*: ET-SWA100series
  - (Depending on the license type, the symbol at the end of the part number is different.)
- Video wall manager: TY-VUK10
- (It becomes correspondence of Ver 1.8 or later)
- Automatic Display Adjustment Upgrade Kit: ET-VUK10
- Digital interface box: ET-YFB100
- DIGITAL LINK Switcher: ET-YFB200

* Multi-Monitoring Control Software Ver 2.0 or later is required.
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>Format</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>V</td>
</tr>
<tr>
<td>PAL/PAL-N/SECAM</td>
<td>720 x 576</td>
<td>15.63</td>
<td>50.00</td>
<td>V</td>
</tr>
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<td>480/60i</td>
<td>720 x 480</td>
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<td>13.50</td>
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<tr>
<td>720/60p</td>
<td>1280 x 720</td>
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<td>50.00</td>
<td>30.00</td>
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<td>1080/60i</td>
<td>1920 x 1080</td>
<td>33.75</td>
<td>50.00</td>
<td>45.00</td>
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<td>45.00</td>
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- The signal format distinguished automatically will be sometimes indication different from an actual input signal.
- *1: When 1035/60i signal is input, it is displayed as 1080/60i signal.
- *3: Displayed with image elements thinned out in the image processing circuit.
- *5: Not supported when [DIGITAL LINK mode] is set to [Long reach]

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80SF2HU_PKK_03_10/04/2020

80-inch Class FULL HD LCD Display

V: VIDEO  D: DVI-D  H: HDMI  Y: Y/C/YPbPr  D: Digital Link
Drawing of terminals

**View from back**

**Magnified figure of terminal a**

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

**Terminal a**

80SF2HU Terminal (Side)  
Units: inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>IR IN/OUT</th>
<th>SERIAL IN/OUT</th>
<th>AUDIO OUT</th>
<th>AV IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.68 (17.3)</td>
<td>0.65 (16.5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</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>C</td>
<td>1.54 (39)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Magnified figure of terminal b**

**Sectional view of terminal b (USB/DVI-D OUT/DVI-D IN/HDMI 1,2/DIGITAL LINK LAN/PC IN)**

**Terminal b**

80SF2HU Terminal (Bottom)  
Units: inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>USB</th>
<th>DVI-D IN/OUT</th>
<th>HDMI</th>
<th>DIGITAL LINK/LAN</th>
<th>PC IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.59 (15.0)</td>
<td>0.63 (16.0)</td>
<td>0.56 (14.2)</td>
<td>0.63 (16.0)</td>
<td>0.68 (17.2)</td>
</tr>
<tr>
<td>B</td>
<td>0.22 (5.6)</td>
<td></td>
<td></td>
<td></td>
<td>0.21 (5.3)</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>1.54 (39)</td>
<td></td>
<td></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.