49-inch Class FULL HD LCD Display

TH-49SF1HW

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

### DISPLAY PANEL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Size (Diagonal)</td>
<td>49-inch (1232 mm)</td>
</tr>
<tr>
<td>Panel type</td>
<td>IPS / Edge-LED</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Effective Display Area (W x H)</td>
<td>1073 x 604 mm</td>
</tr>
<tr>
<td>Number of pixels (H x V)</td>
<td>1920 x 1080 pixels</td>
</tr>
<tr>
<td>Brightness</td>
<td>400 cd/m² (Typ)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>1300:1</td>
</tr>
<tr>
<td>Dynamic Contrast</td>
<td>5000:1</td>
</tr>
<tr>
<td>Response Time</td>
<td>8 ms (6 to 6)</td>
</tr>
<tr>
<td>Viewing Angle (Horizontal / Vertical)</td>
<td>178° / 178° (CR ≧ 10)</td>
</tr>
<tr>
<td>Panel Surface Treatment</td>
<td>Anti glare type (Haze 10%)</td>
</tr>
</tbody>
</table>

### 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
    - **VIDEO IN**
      - Stereo Mini Jack (M3) x 1 (Shared with VIDEO IN)
      - 1.0 V [p-p] (75 Ω)
  - **AUDIO IN**
    - Stereo Mini Jack (M3) x 1 (Shared with COMPONENT / RGB Y/G, P/B/C/B, P/R/C/R, HD/VD)
    - 0.7 V [p-p] (75 Ω)
    - 0.7 V [p-p] (75 Ω)
    - 0.7 V [p-p] (75 Ω)
    - 0.7 V [p-p] (high impedance)
- **DVI IN**
  - DVI-D 24-pin x 1
  - Compliance with DVI Revision 1.0
  - Compatible with HDCP 1.1
- **DVI 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)
  - 1.0 V [p-p] (75 Ω)
  - 0.7 V [p-p] (75 Ω)
- **AUDIO OUT**
  - Stereo Mini Jack (M3) x 1 (Shared with DVI-D IN)
  - 0.5 V (rms)
  - 0.5 V (rms)
- **SERIAL IN / OUT**
  - D-sub 5-pin 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, USB 3.0 is not supported.)

### AUDIO

- Built in Speaker: 10 W (8 Ω, Full Range: 80 mm x 30 mm) x 2
- Audio Output: 20 W (10 W + 10 W)

### ELECTRICAL

- **Power Requirements**
  - 220 - 240 V AC, 50 Hz / 60 Hz
- **Power Consumption**
  - 175 W
- **cep Mode Average Power Consumption**
  - 90 W
- **Power Off Condition**
  - approx. 0.3 W
- **Stand-by Condition**
  - approx. 0.5 W
- **Apparent power**
  - 185 VA
- *Based on IEC 62087 Ed.2 measurement method*

### MECHANICAL

- **Dimensions (W x H x D)**
  - 1093 x 623 x 72 mm
  - 1093 x 623 x 57 mm (Excluding handle part)
- **Weight**
  - approx. 19.2 kg
- **Bezel Color**
  - Black
- **Bezel Width**
  - Top / Bottom / Right / Left: 6.3 mm
- **Carton Dimensions (W x H x D)**
  - 1308 x 846 x 203 mm
- **Gross Weight**
  - approx. 26 kg
- **Cabinet Material**
  - Metal (Front, Back cover)
- **Pitch for Wall-Hanging**
  - VESA Compliant 400 x 400 mm (Installed by: M6 screws / Screw hole depth: 10 mm)

### INSTALLATION

- **Orientation**
  - Landscape / Portrait (Angle adjustment: -45 degrees forward / backward with landscape / portrait setting)
  - Angle adjustment is not possible for forward / backward tilting installation
- **Tilting Angle**
  - 0 - 45 degrees forward / backward with landscape / portrait setting
- **ENVIRONMENTAL**
  - Operating Environment:
    - Temperature: 0°C to 40°C *1, 0°C to 35°C *2
    - Humidity: 20% to 80% (No condensation)
    - Altitude: 0 to 2800 m
  - Storage Environment:
    - Temperature: -20°C to 60°C
    - Humidity: 20% to 80% (No condensation)

*1: for up to 1400 m altitude  *2: for between 1400 m and 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.
49-inch Class FULL HD LCD Display

TH-49SF1HW

**MAIN FEATURE**

- DIGITAL LINK: Yes
- USB Media Player: Yes
- Failback / Failover: Yes
- Data Cloning: Yes
- Digital ZOOM: Yes
- Multi display settings: Yes
- Power on screen delay: Yes
- Auto setting: Yes
- Screensaver: Yes
- PC/DVI/HDMI/DIGITAL LINK power management: Yes
- Power save: Yes
- Button lock: Yes
- Controller user level: Yes
- Input search: Yes
- 6-segment colour management: Yes
- Colour enhancement: Yes
- Refine enhancer: Yes
- Gradation smoother: Yes
- Dynamic backlight control: Yes
- Set up timer: Yes
- ACCESSORIES: Yes
- Crestron Connected™: Yes
- Extron XTP: Yes
- WEB Browser control: Yes
- PJLink: Yes
- Early Warning Software compatible: Yes
- Multi Monitoring & Control Software compatible: 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.

* Specifications and appearance are subject to change without notice.

**DIMENSIONS**

![Dimension Diagram]

**CONNECTION TERMINAL**

![Connection Terminal Diagram]

**STANDARD (CERTIFICATIONS)**

**SAFETY REGULATIONS**

- AS/NZS 60950.1:2011 Inc A1
- BEAB approval

**RADIATION REGULATIONS**

- EN55022:2010+AC:2011(Class A) (expire 03/2017)
- EN55022-2012
- EN61000-3-2:2014
- AS/NZS CISPR32:2013

**REMOTE CONTROL TRANSMITTER**

- Power Requirements: DC 3 V (2 x AAA Size batteries)
- Operating distance: approx. 7 m*
- Weight: approx. 63 g including batteries
- Dimensions (W x H x D): 44 x 105 x 20.5 mm

*When operated directly in front of receptor.

**INCLUDED ACCESSORIES**

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

**OPTIONAL ACCESSORIES**

- Pedestal Stand

**MAIN FEATURE**

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- Early Warning Software compatible: Yes
- Multi Monitoring & Control Software compatible: Yes
- Operating Time: 24h/day

* Specifications and appearance are subject to change without notice.

Cautions: This drawing is not a scale

Units : mm

* 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>Format</th>
<th>DIGITAL LINK</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTSC/NTSCC.43/ - PAL-N/PAL60</td>
<td>720 x 480i</td>
<td>15.73</td>
<td>59.94</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>- PAL-N/SECAM</td>
<td>720 x 576i</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>13.50</td>
<td>R/Y</td>
</tr>
<tr>
<td>625i (576i)</td>
<td>720 x 576i</td>
<td>31.25</td>
<td>50.00</td>
<td>13.50</td>
<td>R/Y</td>
</tr>
<tr>
<td>525i (480i)</td>
<td>720 (1440) x 480i</td>
<td>15.73</td>
<td>59.94</td>
<td>27.00</td>
<td>D/H</td>
</tr>
<tr>
<td>625i (576i)</td>
<td>720 (1440) x 576i</td>
<td>15.63</td>
<td>50.00</td>
<td>27.00</td>
<td>D/H</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>R/Y/D/H</td>
</tr>
<tr>
<td>625i (576i)</td>
<td>720 x 576i</td>
<td>31.25</td>
<td>50.00</td>
<td>27.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>750 (720) /60i</td>
<td>1280 x 720</td>
<td>33.75</td>
<td>59.94</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>750 (720) /50i</td>
<td>1280 x 720</td>
<td>37.50</td>
<td>50.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1125 (1080) /60i</td>
<td>1920 x 1080i</td>
<td>27.00</td>
<td>59.94</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1125 (1080) /50i</td>
<td>1920 x 1080i</td>
<td>28.13</td>
<td>50.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1125 (1080) /24p</td>
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<td>27.00</td>
<td>24.00</td>
<td>74.25</td>
<td>R/Y/D/H</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>
<td>R/Y/D/H</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>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1125 (1080) /60p</td>
<td>1920 x 1080</td>
<td>67.50</td>
<td>59.94</td>
<td>148.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1125 (1080) /50p</td>
<td>1920 x 1080</td>
<td>56.25</td>
<td>50.00</td>
<td>148.50</td>
<td>R/Y/D/H</td>
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<tr>
<td>640 x 400</td>
<td>640 x 400</td>
<td>31.47</td>
<td>59.94</td>
<td>25.18</td>
<td>R/Y/D/H</td>
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<tr>
<td>640 x 480</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>25.18</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>800 x 600</td>
<td>800 x 600</td>
<td>35.16</td>
<td>56.25</td>
<td>36.00</td>
<td>R/Y/D/H</td>
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<tr>
<td>800 x 600</td>
<td>800 x 600</td>
<td>37.50</td>
<td>50.00</td>
<td>40.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>832 x 624</td>
<td>832 x 624</td>
<td>49.72</td>
<td>59.82</td>
<td>57.28</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>852 x 640</td>
<td>852 x 640</td>
<td>49.72</td>
<td>59.82</td>
<td>57.28</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>39.55</td>
<td>50.00</td>
<td>51.89</td>
<td>D/H</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>37.88</td>
<td>60.00</td>
<td>75.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>48.08</td>
<td>72.19</td>
<td>108.00</td>
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<tr>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>48.36</td>
<td>60.00</td>
<td>80.14</td>
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</tr>
<tr>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>47.78</td>
<td>60.00</td>
<td>79.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1280 x 960</td>
<td>1280 x 960</td>
<td>60.00</td>
<td>60.00</td>
<td>108.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>1280 x 1024</td>
<td>85.94</td>
<td>85.00</td>
<td>119.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>1280 x 1024</td>
<td>85.94</td>
<td>85.00</td>
<td>119.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>1280 x 1024</td>
<td>85.94</td>
<td>85.00</td>
<td>119.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1360 x 768</td>
<td>1360 x 768</td>
<td>47.71</td>
<td>59.94</td>
<td>53.00</td>
<td>D/H</td>
</tr>
<tr>
<td>1360 x 768</td>
<td>1360 x 768</td>
<td>47.71</td>
<td>59.94</td>
<td>53.00</td>
<td>D/H</td>
</tr>
<tr>
<td>1366 x 768</td>
<td>1366 x 768</td>
<td>39.55</td>
<td>50.00</td>
<td>69.92</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1400 x 1050</td>
<td>1400 x 1050</td>
<td>65.22</td>
<td>59.94</td>
<td>122.61</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1440 x 900</td>
<td>1440 x 900</td>
<td>55.47</td>
<td>59.94</td>
<td>88.75</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1440 x 900</td>
<td>1440 x 900</td>
<td>55.92</td>
<td>60.00</td>
<td>106.47</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1600 x 900</td>
<td>1600 x 900</td>
<td>60.00</td>
<td>60.00</td>
<td>97.05</td>
<td>D/H</td>
</tr>
<tr>
<td>1600 x 900</td>
<td>1600 x 900</td>
<td>60.00</td>
<td>60.00</td>
<td>97.05</td>
<td>D/H</td>
</tr>
<tr>
<td>1600 x 1000</td>
<td>1600 x 1000</td>
<td>65.29</td>
<td>59.95</td>
<td>146.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1600 x 1200</td>
<td>1600 x 1200</td>
<td>75.00</td>
<td>60.00</td>
<td>162.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
<td>66.59</td>
<td>59.93</td>
<td>138.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
<td>67.50</td>
<td>60.00</td>
<td>148.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td>1920 x 1200</td>
<td>1920 x 1200</td>
<td>74.04</td>
<td>59.95</td>
<td>154.00</td>
<td>R/Y/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) /60 signal is input, it is displayed as 1125 (1080) /60 signal.
*2: Pixel-Repeation 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
(PC/AUDIO/COMPONENT/DIGITAL LINK/LAN/HDMI/DVI-D/USB)

Terminal a
49SF1HW Terminal (Bottom)

<table>
<thead>
<tr>
<th>Units : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A PC</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>C</td>
</tr>
</tbody>
</table>

Sectional view of terminal b (SERIAL/IR)

Terminal b
49SF1HW Terminal (Side)

<table>
<thead>
<tr>
<th>Units : mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A SERIAL</td>
</tr>
<tr>
<td>A 14.0</td>
</tr>
<tr>
<td>B 4.0</td>
</tr>
<tr>
<td>C 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 SF1H 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</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**
  - Power Indicator

- **Portrait**
  - Power Indicator

**Tilting angle**

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

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