## Product specification

### 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:** 500 cd/m² (typ)
- **Contrast Ratio:** 1300:1 (typ)
- **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: When the panel lifetime is at 50% of the brightness under the condition of 25 degrees Celsius (+/- 2 degrees celsius).

### OpenPort PLATFORM SYSTEM

- **OS:** Android 4.4.3
- **CPU:** Cortex-A9 1.0 GHz (Quad)
- **Memory:** 1 GB
- **Storage:** 8 GB (Total capacity of storage including OS)
- **Graphics:** Vivante GC2000
- **Supported codec**
  - **Video:** MPEG4、H.264/AVC、H.263、MotionJPEG、MPEG2、WMV、VP8
  - **Audio:** MP3、AAC、WMA、AMR、Ogg Vorbis

### OpenPort PLATFORM CONNECTION TERMINAL

- **USB (OpenPort PLATFORM):** USB 2.0 Type A connector
- **Micro-USB:** USB 2.0 Micro-B connector
- **microSD Card Slot:** microSD/microSDHC  x 1
- **LAN:** RJ45 x 1 10BASE-T/100BASE-TX/1000BASE-T, Compatible with PJLink
- **Wireless LAN Module:** IEEE 802.11a/b/g/n

### CONNECTION TERMINAL

- **HDMI IN**
  - HDMI Type A Connector x 2
  - Linear PCM
  - (Sampling frequency : 48 kHz/44.1 kHz/32 kHz)
  - Y/G : BNC Contact Plug with sync
  - C : BNC Contact Plug with sync
  - R : BNC Contact Plug with sync
- **COMPONENT/RGB IN**
  - BNC x 1 set
  - Y/G : BNC Contact Plug with sync
  - C : BNC Contact Plug with sync
  - R : BNC Contact Plug with sync
- **AUDIO IN**
  - Stereo Mini Jack (M3) x 1
  - Y/G : without sync
  - C : without sync
  - R : without sync
  - (High impedance)
- **COMPONENT/RGB OUT**
  - BNC x 1 set
  - Y/G : BNC Contact Plug with sync
  - C : BNC Contact Plug with sync
  - R : BNC Contact Plug with sync
  - (High impedance)
- **PC IN**
  - Mini D-Sub 15-pin x 1 (Female)
  - without sync
  - (High impedance)
- **AUDIO IN**
  - Stereo Mini Jack (M3) x 1
  - (Shared with COMPONENT/RGB IN)
  - Without sync
  - (High impedance)
- **SERIAL IN/OUT**
  - D-sub 9pin x 1 / x 1, RS-232C Compatible
- **IR IN / OUT**
  - Stereo Mini Jack (M3) x 1 / x 1
  - (Shared with PC IN)
  - Y/G : with sync
  - C : with sync
  - R : with sync
  - (High impedance)
- **AUDIO OUT**
  - Stereo Mini Jack (M3) x 1 Variable (-∞ - 0 dB), 1 kHz 0 dB Input, 10 kΩ Load
  - 0.5 Vms
  - (High impedance)
- **USB**
  - USB 2.0 Type A connector x 1
  - (1.5 V, 500 mA/1000 mA)
  - (USB 3.0 is not supported.)
  - (Supported for USB memory device only.)

### SPEAKER

- **Built in Speaker:** 10 W (1 Ω , Full Range : 3.15” x 1.18” (80 mm x 30 mm)) x 2
- **Built in Speaker OUT:** 20 W (10 W +10 W)

### ELECTRICAL

- **Power Requirements:** 110 - 127 V AC 50 / 60 Hz
- **Power Consumption:** 175 W
- **On Mode Average Power Consumption**
  - (Approx. 1.3 W)
- **Stand-by Condition**
  - approx. 0.5 W (when OpenPort PLATFORM™ set to OFF)
  - approx. 20 W (when OpenPort PLATFORM™ set to ON)
- **Apparent power:** 180 VA

### MECHANICAL

- **Dimensions (W x H x D):** 43.1” x 24.6” x 2.8” (1093 x 623 x 72 mm)
- **Carton Dimensions (W x H x D):** 51.5” x 33.4” x 8.0” (1308 x 846 x 203 mm)
- **Weight:** approx. 42.6 lbs. (19.3 kg)
- **Bezel Dimensions (W x H x D):** 1/4” x 1/2” x 1/8” (6.3 mm x 30 mm)
- **Gross Weight:** approx. 57.4 lbs. (26.0 kg)
- **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))
- **UPC Code:** 885170263024

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**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.

**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
- Early Warning Software*: ET-SWA100 series
- Auto Display Adjustment Upgrade Kit**: TY-VUK10

* The symbol at the end of item number differs depending on the type of license.
** This kit responds to Ver. 1.2 and later versions.

**DIMENSIONS**

- 43.1(1093)
- 0.3(6.3)
- 24.6(623)
- 0.3(6.3)
- 27.4(696)
- 7.9(198)
- 0.7(17)
- 0.8(21)
- 0.1(3)

**CONNECTION TERMINAL**

**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)
- 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.

**STANDARD (CERTIFICATIONS)**

- 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): 1.7" x 4.1" x 0.8" (44 x 105 x 20.5 mm)

* When operated directly in front of receptor.

Cautions: This drawing is not a scale
Units: inches (mm)

**INCLUDED ACCESSORIES**

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

**OPTIONAL ACCESSORIES**

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**DIMENSIONS**

- 7.9(198)
- 27.4(696)
- 7.9(198)
- 0.7(17)
- 0.8(21)
- 0.1(3)

**CONNECTION TERMINAL**

- **Specifications and appearance are subject to change without notice.**
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></td>
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<td>Horizontal (kHz)</td>
<td>Vertical (Hz)</td>
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<tr>
<td>NTSC/NTSC4.43/</td>
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<td>15.73</td>
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<td>V</td>
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<td>Y: YCBCR/YPBPR</td>
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<td>59.95</td>
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</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
49-inch Class FULL HD LCD Display

TH-49AF1U

Drawing of terminals

View from back

Magnified figure of terminal a

Magnified figure of terminal b

Sectional view of terminal a

(PC/AUDIO/COMPONENT/HDMI/DVI-D IN/USB)

Terminal a 49AF1 Terminal (Bottom)

Units: inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>PC</th>
<th>AUDIO</th>
<th>COMPONENT</th>
<th>HDMI</th>
<th>DVI-D IN</th>
<th>USB (terminal a)</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>0.56 (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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.19 (4.7)</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>1.26 (32)</td>
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</tbody>
</table>

Sectional view of terminal b

(LAN/micro SD/USB/Micro USB)

Terminal b 49AF1 Terminal (Side)

Units: inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>LAN</th>
<th>micro SD</th>
<th>USB (terminal b)</th>
<th>Micro USB</th>
<th>SERIAL</th>
<th>IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.62 (15.7)</td>
<td>0.41 (10.3)</td>
<td>0.65 (16.6)</td>
<td>0.41 (10.3)</td>
<td>0.55 (14.0)</td>
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<tr>
<td>B</td>
<td></td>
<td></td>
<td>0.16 (4)</td>
<td></td>
<td>0.06 (1.5)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td>1.41 (35.8)</td>
<td></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 AF1 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**

<table>
<thead>
<tr>
<th>Angle adjustment (0-45° for both left and right)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Orientation Diagram" /></td>
</tr>
</tbody>
</table>

**Tilting angle**

<table>
<thead>
<tr>
<th>Forward tilting</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2" alt="Forward Tilting Diagram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Backward tilting</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Backward Tilting Diagram" /></td>
</tr>
</tbody>
</table>