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

#### DISPLAY PANEL
- **Screen Size (Diagonal):** 55-inch (1387 mm)
- **Panel type:** IPS / Edge-LED
- **Aspect ratio:** 16:9
- **Effective Display Area (W x H):** 1209 x 680 mm
- **Number of pixels (H x V):** 1920 x 1080 pixels
- **Brightness:** 450 cd/m² (typ.)
- **Contrast Ratio:** 1100:1 (typ.)
- **Dynamic Contrast:** 50000:1 (typ.)
- **Max. Display Colors:** approx. 16.8 million
- **Response Time:** 12 ms (typ.) (G to G)
- **Viewing Angle (Horizontal / Vertical):** 178° / 178° (CR ≧ 10)
- **Panel Life Time:** approx. 50000 hours (typ)
- **Panel Surface Treatment:** Anti glare type (Haze 1%)

#### 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 Port mini Jack (M3) x 1 / x 1
  - 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
  - : with sync 1.0 V [p-p] (75 Ω )
  - : without sync 0.7 V [p-p] (75 Ω )
  - P/V/C/B: 0.7 V [p-p] (75 Ω )
  - P/V/C/R: 0.7 V [p-p] (75 Ω )
  - HD/VD: HD/VD TTL (high impedance)
- **SERIAL IN / OUT:** D-sub 9-pin 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 V [rms]
- **USB:** USB 2.0 Type A connector x 1 DC 5 V/1A (USB 3.0 is not supported.)

#### AUDIO
- **Built in Speaker:** 20 W [10 W + 10 W]

#### ELECTRICAL
- **Power Requirements:** AC 220 - 240 V 50/60 Hz
- **Power Consumption:** 115 W
- **Off Mode Average Power Consumption**
  - Only 87 W
- **Power Off Condition:** approx. 0.3 W
- **Stand-by Condition:** approx. 0.5 W
- **Apparent power:** 122 VA

#### MECHANICAL
- **Dimensions (W x H x D):** 1234 x 710 x 46 mm
- **Weight:** approx. 18.0 kg
- **Bezel Color:** Black
- **Bezel Width:** T/R/L 9.5 mm, B 15.5 mm
- **Carton Dimensions (W x H x D):** 1448 x 952 x 223 mm
- **Gross Weight:** approx. 26.0 kg
- **Cabinet Material:** Front: Metal / Back: Plastic
- **Pitch for Wall-Hanging:** VESA Compliant 400 x 400 mm (Installed by: M6 screws / Screw hole depth 10 mm)

#### INSTALLATION
- **Orientation:** Landscape / Portrait (Rotation: Up to 45 degrees for each right and left with the display installed landscape)
- **Tilting Angle**
  - Landscape : 0 - 45 degrees forward / backward
  - Portrait : 0 - 45 degrees forward / backward

#### ENVIRONMENTAL
- **Operating Environment**
  - Temperature: 0°C to 40°C (0°C to 35°C *1)
  - 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.
TH-55SF2E

55-inch Class FULL HD LCD Display

**MAIN FEATURE**
- USB Media Player: YES
- Failback / Failover: YES
- Data Goniq: YES
- Digital ZOOM: YES
- Multi display settings: YES
- Power on screen delay: YES
- Auto setting: YES
- Screemaver: YES
- HDMI power management: YES
- PC power management: YES
- DVI-D power management: YES
- Power save: YES
- Button lock: YES
- Controller user level: YES
- Input search: YES
- 6-segment colour management: YES
- Dynamic contrast: YES
- Colour enhancement: YES
- Refine enhancer: YES
- Gradation smoother: YES
- Set up timer: YES
- AMX D.D.: YES
- Crestron Connected™: YES
- Extron XTP: YES
- WEB Browser control: YES
- PIP: YES
- Image compatible: YES
- Input Detection: YES
- HDMI CEC compatible: YES
- Viewer: YES
- Early Warning Software compatible: YES
- Multi Monitoring & Control Software compatible: YES
- Video Wall Manager compatible: YES
- CMS Content management: YES
- Software compatible: YES

**STANDARD (CERTIFICATIONS)**

**SAFETY REGULATIONS**
- EN61000-3-2:2014
- EN61000-3-3:2013
- EN50081-1:2009
- EN50082-1:2009
- EN55024:2010
- EN61000-3-2:2014
- EN61000-3-3:2013
- EN55032:2012 + AC:2013 (CLASS A)
- EN55035:2014
- IEC61000-4-2:2008
- IEC61000-4-3:2010
- IEC61000-4-6:2013
- IEC61000-4-8:2009
- IEC61000-4-11:2004

**RADIATION REGULATIONS**
- Class B

**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): 48 x 134 x 20 mm
- *When operated directly in front of receptor.

**INCLUDED ACCESSORIES**
- AC cord (1.8 m)
- Remote Control
- Batteries (AAA size) x 2
- Clamper x 3

**OPTIONAL ACCESSORIES**
- Pedestal Stand: TY-ST556P9

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>46</td>
<td>9.5</td>
</tr>
<tr>
<td>9.5</td>
<td>9.5</td>
<td>15.5</td>
</tr>
<tr>
<td>9.5</td>
<td>16.8</td>
<td>22</td>
</tr>
<tr>
<td>22</td>
<td>58.8</td>
<td>3.4</td>
</tr>
<tr>
<td>3.4</td>
<td>98.8</td>
<td>400</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>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Horizontal (kHz)</td>
<td>Vertical (Hz)</td>
<td></td>
</tr>
<tr>
<td>NTSC/NTSC4.43/ PAL M/ PAL G</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>15.73</td>
<td>59.94</td>
<td>13.50</td>
</tr>
<tr>
<td>480/60i</td>
<td>720 x 480</td>
<td>15.73</td>
<td>59.94</td>
<td>13.50</td>
</tr>
<tr>
<td>576/50i</td>
<td>720 x 576</td>
<td>15.63</td>
<td>50.00</td>
<td>13.50</td>
</tr>
<tr>
<td>480/60i</td>
<td>720 x 480</td>
<td>15.73</td>
<td>59.94</td>
<td>27.00</td>
</tr>
<tr>
<td>576/50i</td>
<td>720 x 576</td>
<td>15.63</td>
<td>50.00</td>
<td>27.00</td>
</tr>
<tr>
<td>720/60p</td>
<td>1280 x 720</td>
<td>45.00</td>
<td>60.00</td>
<td>74.25</td>
</tr>
<tr>
<td>720/50p</td>
<td>1280 x 720</td>
<td>37.50</td>
<td>60.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1080/60i</td>
<td>1920 x 1080</td>
<td>33.75</td>
<td>60.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1080/50i</td>
<td>1920 x 1080</td>
<td>28.13</td>
<td>50.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1080/30p</td>
<td>1920 x 1080</td>
<td>33.75</td>
<td>30.00</td>
<td>74.25</td>
</tr>
<tr>
<td>1080/60p</td>
<td>1920 x 1080</td>
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<td>60.00</td>
<td>148.50</td>
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<tr>
<td>1080/50p</td>
<td>1920 x 1080</td>
<td>56.25</td>
<td>50.00</td>
<td>148.50</td>
</tr>
<tr>
<td>1280 x 1024/70</td>
<td>640 x 400</td>
<td>31.47</td>
<td>70.00</td>
<td>25.18</td>
</tr>
<tr>
<td>1280 x 1024/60</td>
<td>640 x 400</td>
<td>31.47</td>
<td>74.58</td>
<td>25.18</td>
</tr>
<tr>
<td>1280 x 1024/50</td>
<td>640 x 400</td>
<td>31.47</td>
<td>80.48</td>
<td>25.18</td>
</tr>
<tr>
<td>1280 x 1024/75</td>
<td>1440 x 900</td>
<td>55.92</td>
<td>60.00</td>
<td>119.00</td>
</tr>
<tr>
<td>1280 x 1024/60</td>
<td>1440 x 900</td>
<td>55.92</td>
<td>60.00</td>
<td>119.00</td>
</tr>
<tr>
<td>1280 x 1024/85</td>
<td>1440 x 900</td>
<td>55.92</td>
<td>60.00</td>
<td>119.00</td>
</tr>
<tr>
<td>1360 x 768</td>
<td>1360 x 768</td>
<td>47.70</td>
<td>60.00</td>
<td>84.72</td>
</tr>
<tr>
<td>1366 x 768/60</td>
<td>1366 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</td>
</tr>
<tr>
<td>1366 x 768/75</td>
<td>1366 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</td>
</tr>
<tr>
<td>1366 x 768</td>
<td>1366 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</td>
</tr>
<tr>
<td>1366 x 768/50</td>
<td>1366 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</td>
</tr>
<tr>
<td>1366 x 768/60</td>
<td>1366 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</td>
</tr>
<tr>
<td>1366 x 768/75</td>
<td>1366 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</td>
</tr>
<tr>
<td>1400 x 1050</td>
<td>1400 x 1050</td>
<td>65.22</td>
<td>60.00</td>
<td>122.61</td>
</tr>
<tr>
<td>1400 x 1050/75</td>
<td>1400 x 1050</td>
<td>82.20</td>
<td>75.00</td>
<td>155.85</td>
</tr>
<tr>
<td>1440 x 900</td>
<td>1440 x 900</td>
<td>55.47</td>
<td>59.90</td>
<td>88.75</td>
</tr>
<tr>
<td>1600 x 900</td>
<td>1600 x 900</td>
<td>46.30</td>
<td>60.00</td>
<td>108.00</td>
</tr>
<tr>
<td>1360 x 768/60</td>
<td>1360 x 768</td>
<td>47.70</td>
<td>60.00</td>
<td>84.72</td>
</tr>
<tr>
<td>1336 x 768</td>
<td>1336 x 768</td>
<td>47.70</td>
<td>59.89</td>
<td>84.72</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-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 a

![Magnified figure of terminal a](image)

#### Magnified figure of terminal b

![Magnified figure of terminal b](image)

#### Sectional view of terminal a

![Sectional view of terminal a](image)

#### Terminal a

**55SF2E Terminal (Side)**  
Units: mm

<table>
<thead>
<tr>
<th></th>
<th>USB</th>
<th>DVI-D IN/OUT</th>
<th>HDMI</th>
<th>LAN</th>
<th>PC IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7.8</td>
<td>8.8</td>
<td>7.2</td>
<td>8.8</td>
<td>10</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>5.6</td>
<td></td>
<td></td>
<td>5.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td>24.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>59.7</td>
</tr>
</tbody>
</table>

#### Sectional view of terminal b

![Sectional view of terminal b](image)

#### Terminal b

**55SF2E Terminal (Bottom)**  
Units: mm

<table>
<thead>
<tr>
<th></th>
<th>IR OUT</th>
<th>SERIAL IN/OUT</th>
<th>AUDIO OUT/IR IN</th>
<th>AV IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2.7</td>
<td>5.2</td>
<td>2.7</td>
<td>1.7</td>
</tr>
<tr>
<td>B</td>
<td>10.1</td>
<td>10.1</td>
<td>10.1</td>
<td>9.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>24.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>62.5</td>
<td>40.9</td>
<td></td>
<td>62.5</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 SF2 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 (The angle can be adjusted up to 45 degrees for each right and left (with the display installed landscape).)</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

Angle adjustment (0-45° for both left and right)

![Landscape](Landscape)

◆ Tilting angle

Forward tilting

![Landscape orientation](Landscape orientation)  ![Portrait orientation](Portrait orientation)

Backward tilting

![Landscape orientation](Landscape orientation)  ![Portrait orientation](Portrait orientation)