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

### DISPLAY PANEL
- **Screen Size (Diagonal):** 49.5-inch (1257 mm)
- **Panel type / Backlight:** VA / Direct-LED
- **Aspect ratio:** 16:9
- **Effective Display Area (W x H):** 43.2" x 24.3" (1096 x 616 mm)
- **Resolution (H x V):** 3840 x 2160
- **Brightness (Typ):** 400 cd/m²
- **Contrast Ratio (Typ):** 4000:1
- **Dynamic Contrast Ratio:** 50000:1
- **Max. Display Colors:** Approx. 1.06 billion
- **Response Time (Typ):** 8.0 ms
- **Viewing Angle (Horizontal / Vertical):** 178° / 178° (CR>10)
- **Panel Life Time' (Typ):** Approx. 50000 hours
- **Panel Surface Treatment:** Anti-glare type (Haze 2%)

1. When the panel lifetime is at 50% of the brightness under the condition of 25 degrees Celsius (+/- 2 degrees celsius).

2. The LCD panel is made with high-precision technology, but there may be dots that are always lit or dots that are not lit on the display screen. This is not a malfunction, so note that. The percentage of missing dots in this product is 0.00005% or less. (Calculated in sub-pixel units according to ISO09241-307 standards.)

### CONNECTION TERMINAL
- **HDMI IN**
  - HDMI Type A Connector x 3
  - Linear PCM (sampling frequency: 48 kHz/44.1 kHz/32 kHz)
  - Compatible with HDCP 2.2
- **PC IN**
  - Mini D-Sub 15-pin (DDC2B) x 1
  - RGB: without sync 0.7 V [p-p] (75 Ω)
  - HD/VD: TTL (high impedance)
- **SERIAL IN**
  - External control terminal D-sub 9pin x 1 (Female), RS-232C Compatible
- **AUDIO IN**
  - Stereo Mini Jack (M3) x 1
  - (PC IN only)
  - Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 kΩ Load)
- **SERIAL OUT**
  - Pin Jack x 1
  - 0.5 V (rms)
- **LAN**
  - RJ45 x 1
  - RJ45 10BASE-T/100BASE-TX
- **USB**
  - USB Type A Connector x 1
  - DC 5 V/2 A (USB 2.0 is supported)
- **RF In (ANTENNA / CABLE)**
  - F connector x1
  - Digital: ATSC Analog: NTSC
- **AUDIO**
  - Built in Speaker
  - 20W (10W+10W)
- **ELECTRICAL**
  - AC 110-127 V 60 Hz
  - Power Consumption
    - 138 W
    - On Mode Average Power Consumption: 100 W
    - Power Off Condition: 0 W
    - Stand-by Condition: Approx. 0.5 W
    - Apparent power: 140 W

1. Based on IEC 62087 Ed.2 measurement method

### MECHANICAL
- **Dimension (W x H x D) not including handles:** 44.43" x 25.56" x 2.60" (1129 x 649 x 66 mm)
- **Weight:** Approx. 34 lbs (15.4 kg)
- **Bezel Color:** Black
- **Bezel Width:** T/R/L/B 0.59" (14.9 mm)
- **Carton Dimensions (W x H x D):** 48.43" x 31.50" x 5.60" (1230 x 800 x 142 mm)
- **Gross Weight:** Approx. 44.1 lbs (20 kg)
- **Cabinet Material:** Front: Metal, Side/Back: Plastic
- **Pitch for Wall-Hanging:** VESA Compliant 15.8" x 15.8" (400 x 400 mm) (Installed by: M6 screws / Screw hole depth: 0.8" (20 mm))

### INSTALLATION
- **Orientation:** Landscape
- **Tilting Angle:** 0 - 20 degrees forward with landscape setting

1. Please contact your sales representative with regard to the tilt angle before installation.

### ENVIRONMENTAL
- **Operating Environment**
  - Temperature: 32° F to 104° F (0° C to 40° C)
  - Humidity: 20% to 80% (No condensation)
- **Storage Environment**
  - Temperature: -4° F to 140° F (-20° C to 60° C)
  - 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

### UPC Code
- 885170385665
50-inch Class 4K UHD LCD TV

**MAIN FEATURE**
- TV tuner (NTSC / ATSC) Yes
- USB Media File Playback Function Yes
- Auto Setup (PC) Yes
- Power Management (HDMI / PC) Yes
- Button lock Yes
- Remote Controller Lock Yes
- Dynamic contrast Yes
- Dynamic backlight control Yes
- Timer setting Yes
- SERIAL control (RS232C) Yes
- LAN control (PJLink) Yes
- HDMI CEC Compatible Yes
- Multi Monitoring & Control Software Yes
- Memory Viewer Yes
- USB Auto-play Yes
- Operating Time 1 16h / day

1 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 movie images.

**DIMENSIONS**

![Dimensions Diagram]

1 Some wall hanging brackets cannot be used due to the structures of the product. Check the product drawing before using.

**STANDARD (CERTIFICATIONS)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAFETY REGULATIONS</td>
<td>ANSI / UL62368-1:2014</td>
</tr>
<tr>
<td>RADIATION REGULATIONS</td>
<td>FCC 47 CFR, Part 15, Subpart B Class B</td>
</tr>
<tr>
<td></td>
<td>ANSI C63.4-2014</td>
</tr>
</tbody>
</table>

**REMOTE CONTROL TRANSMITTER**

- Power Requirements DC 3 V (AAA Size batteries x 2)
- Operating distance Approx. 2.3 ft (7 m)
- Weight Approx. 3.2 oz (91 g) including batteries
- Dimensions (W x H x D) 1.9" x 1.1" x 7.5" (48 x 27 x 190 mm)

1 When operated directly in front of receptor.

**INCLUDED ACCESSORIES**

- Remote Control - Batteries (AAA size) x 2
- AC cord (approx. 78.7" (approx. 2 m)) - Clamper x 2
- Operating Instruction Book

**OPTIONAL ACCESSORIES**

- Pedestal TY-ST43PE9

**CONNECTION TERMINAL**

![Connection Terminal Diagram]

1 Specifications and appearance are subject to change without notice.
### List of correspondence signals

#### Video Signal

<table>
<thead>
<tr>
<th>HDMI Resolution</th>
<th>Refresh rate (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 480p</td>
<td>60</td>
</tr>
<tr>
<td>720 x 480i</td>
<td>60</td>
</tr>
<tr>
<td>720 x 480p</td>
<td>60</td>
</tr>
<tr>
<td>720 x 576i</td>
<td>50</td>
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<tr>
<td>720 x 576p</td>
<td>50</td>
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<tr>
<td>1280 x 720p</td>
<td>50</td>
</tr>
<tr>
<td>1920 x 1080i</td>
<td>60</td>
</tr>
<tr>
<td>1920 x 1080p</td>
<td>24</td>
</tr>
<tr>
<td>3840 x 2160p</td>
<td>24</td>
</tr>
<tr>
<td>4096 x 2160p</td>
<td>24</td>
</tr>
</tbody>
</table>

#### PC Signal

<table>
<thead>
<tr>
<th>PC / HDMI</th>
<th>Support</th>
<th>refresh rate (Hz)</th>
</tr>
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<tbody>
<tr>
<td>PC / HDMI</td>
<td>✓</td>
<td>60</td>
</tr>
<tr>
<td>PC / HDMI</td>
<td>✓</td>
<td>800 x 600</td>
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<tr>
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<td>1024 x 768</td>
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<tr>
<td>PC / HDMI</td>
<td>✓</td>
<td>1280 x 720</td>
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<tr>
<td>PC / HDMI</td>
<td>✓</td>
<td>1280 x 800</td>
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<td>1280 x 960</td>
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<td>1280 x 1024</td>
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<td>1360 x 768</td>
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<td>✓</td>
<td>1400 x 1050</td>
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<td>1440 x 900</td>
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<td>✓</td>
<td>1600 x 900</td>
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<td>PC / HDMI</td>
<td>✓</td>
<td>1600 x 1200</td>
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<tr>
<td>PC / HDMI</td>
<td>✓</td>
<td>1680 x 1050</td>
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<td>✓</td>
<td>1920 x 1080</td>
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<tr>
<td>PC / HDMI</td>
<td>✓</td>
<td>3840 x 2160</td>
</tr>
</tbody>
</table>
Drawing of terminals

View from back

Magnified figure of terminal b

Magnified figure of terminal a

Sectional view of terminal a
(HDMI 2 / HDMI 3 / LAN / SERIAL IN)

Terminal a
50CQ2U Terminal (Bottom)

<table>
<thead>
<tr>
<th></th>
<th>HDMI</th>
<th>LAN</th>
<th>SERIAL IN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.33 (8.4)</td>
<td>0.38 (9.9)</td>
<td>0.44 (11.3)</td>
</tr>
<tr>
<td>B</td>
<td>0.53 (13.5)</td>
<td>0.47 (12.0)</td>
<td>0.41 (10.6)</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>0.21 (5.2)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.06 (27.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>3.01 (76.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>3.08 (78.3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Units: inches (mm)

Sectional view of terminal b
(AUDIO OUT R / AUDIO OUT L / USB / ANTERNA / CABLE IN / AUDIO IN / PC IN / HDMI 1)

Terminal b
50CQ2U Terminal (Side)

<table>
<thead>
<tr>
<th></th>
<th>AUDIO OUT</th>
<th>USB</th>
<th>ANTENNA / CABLE IN</th>
<th>AUDIO IN</th>
<th>PC IN</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.42 (10.9)</td>
<td>0.41 (10.5)</td>
<td>0.44 (11.3)</td>
<td>0.45 (11.5)</td>
<td>0.44 (11.2)</td>
<td>0.33 (8.4)</td>
</tr>
<tr>
<td>B</td>
<td>0.44 (11.4)</td>
<td>0.46 (11.7)</td>
<td>0.43 (11.0)</td>
<td>0.42 (10.8)</td>
<td>0.43 (11.1)</td>
<td>0.54 (13.8)</td>
</tr>
<tr>
<td>C</td>
<td>0.34 (8.5)</td>
<td>-</td>
<td>0.44 (11.1)</td>
<td>0.11 (2.7)</td>
<td>0.21 (5.1)</td>
<td>-</td>
</tr>
<tr>
<td>D</td>
<td>1.06 (27.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Units: inches (mm)

1 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.