86-inch Class 4K UHD LCD TV
TH-86CQ1U

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

■ DISPLAY PANEL
- Screen Size (Diagonal): 85.6-inch (2174 mm)
- Panel type / Backlight: IPS / Edge LED
- Aspect ratio: 16:9
- Effective Display Area (W x H): 74.6" x 41.9" (1895 x 1065 mm)
- Resolution (H x V): 3840 x 2160
- Brightness (Typ): 400 cd/m²
- Contrast Ratio (Typ): 1200:1
- Dynamic Contrast Ratio: 20000:1
- Response Time (Typ): 8 ms (G to G)
- Viewing Angle (Horizontal / Vertical): 178° / 178° (CR>10)
- Panel Life Time*1 (Typ): Approx. 50000 hours
- Panel Surface Treatment: Anti-glare type (Haze 3%)

■ CONNECTION TERMINAL
- HDMI IN: HDMI Type A Connector x 2
  - 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
  - Y/G: with sync 1.0 V [p-p] (75 Ω)
  - P/C: without sync 0.7 V [p-p] (75 Ω)
  - P/R: without sync 0.7 V [p-p] (75 Ω)
  - HD/VD: TTL (high impedance)
- SERIAL IN: D-sub 9pin x 1, RS-232C Compatible
- AUDIO IN: Stereo Mini Jack (M3) x 1
  - (PC IN only)
- AUDIO OUT: Pin Jack (L / R) x 1
  - Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 kΩ Load)
  - 0.5 V [rms]
- LAN: RJ45 x 1
- USB: Type A Connector x 1, DC 5 V/0.5 A (USB 2.0 is supported)
- RF IN (ANTENNA / CABLE): F connector x1
  - Standard: ATSC Analog: NTSC
  - Digital: AIR / 8VSB CABLE / 16QAMor256QAM
  - Analog: Picture / AM Sound / FM

■ AUDIO
- Built-in Speaker: 20W (10W+10W)

■ ELECTRICAL
- Power Requirements: AC 110 - 127 V 50 Hz / 60 Hz
- Power Consumption: 340 W
- On Mode Average Power Consumption*: 287 W
- Power Off Condition: Approx. 0.5 W
- Stand-by Condition: Approx. 0.5 W
- Apparent Power: 341 VA

* Based on IEC 62087 Ed.2 measurement method

■ MECHANICAL
- Dimension (W x H x D): Not including remote controller sensor box
  - 76.0" x 43.3" x 3.2" (1929 x 1100 x 80 mm)
- Dimension (W x H x D): Including remote controller sensor box
  - 76.0" x 43.5" x 3.2" (1929 x 1103 x 80 mm)
- Weight: Approx. 111 lbs (50 kg)
- Bezel Color: Black
- Bezel Width: T/B/L/R: 0.60" (15.3 mm)
- Cabinet Dimension (W x H x D): 83.2" x 56.9" x 21.3" (2111 x 1445 x 541 mm)
- Gross Weight: Approx. 222 lbs (102 kg)
- Cabinet Material: Front Side: Metal / Back: Plastic
- Pitch for Wall-Hanging: VESA Compliant 23.6" x 15.8" (600 x 400 mm) (Installed by: M8 screws / Screw hole depth 0.7" (18 mm))

■ INSTALLATION
- Orientation: Landscape
- Tilt Angle: 0-20 degrees forward with landscape setting
- *Please contact your sales representative with regard to the tilt angle before installation.
- *When you install the product upright, be sure to make the power lamp of the main body come to the upper side.

■ ENVIRONMENTAL
- Operating Environment: Temperature: 32°F to 104°F (0°C to 40°C) *1, 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
* 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: 885170367302

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**MAIN FEATURE**

- **TV (NTSC / ATSC)**: Yes
- **USB Media File Playback Function**: Yes
- **Memory Viewer**: Yes
- **Auto setting**: Yes
- **No signal power off**: Yes
- **Button lock**: Yes
- **RC control lock**: Yes
- **Dynamic contrast**: Yes
- **Dynamic backlight**: Yes
- **SERIAL control (RS232C)**: Yes
- **Motion Smoother**: Yes
- **LAN control**: Yes
- **HDMI/CEC Compatible**: Yes
- **Operating Time**: 16 h / 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 movie images.*

**DIMENSIONS**

Cautions: This drawing is not a scale

Units : inches (mm)

**CONNECTION TERMINAL**

[Circuit diagram]

- AUDIO OUT
- SERIAL IN
- LAN
- PC IN
- AUDIO IN

* Specifications and appearance are subject to change without notice.

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**STANDARD (CERTIFICATIONS)**

**SAFETY REGULATIONS**
- ANSI / UL62368-1:2014
- CAN / CSA C22.2 No. 62368-1:14

**RADIATION REGULATIONS**
- FCC 47 CFR, Part 15, Subpart B Class B
- ANSI C63.4-2014
- ICES-003

**REMOTE CONTROL TRANSMITTER**

- Power Requirements: DC 3 V (AAA Size batteries x 2)
- Operating distance: Approx. 2.3 ft (7 m)*
- Weight: Approx. 3.4 oz (91 g) including batteries
- Dimensions (W x H x D): 2.3" x 1.1" x 7.5" (48 x 27 x 190 mm)

*When operated directly in front of receptor.

**INCLUDED ACCESSORIES**

- Remote Control – Batteries (AAA size) x 2
- Warranty
- AC cord (Approx. 1.18 m (3 m))
- Operating Instruction Book

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# List of correspondence signals

## Video Signal

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<th>Refresh rate (Hz)</th>
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Drawing of terminals

View from back

Magnified figure of terminal b

Magnified figure of terminal a

Sectional view of terminal a
(AUDIO OUT L / AUDIO OUT R / SERIAL IN / LAN ANTENNA / CABLE IN / PC IN / AUDIO IN)

Terminals
(on the product side)

Sectional view of terminal b
(HDMI 1 / HDMI 2 / USB)

Terminals
(on the product side)

Terminal a
86CQ1U Terminal (Bottom)

<table>
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Terminal b
86CQ1U Terminal (Side)

<table>
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<td>C</td>
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<td>D</td>
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<td>E</td>
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*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.