# Panasonic

43-inch Class FULL HD LCD Display

# TH-43LFE8E

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

### ■ DISPLAY PANEL

| | |
|---|---|
| Screen Size (Diagonal) | 43-inch (1079 mm) |
| Panel type | VA / Direct-LED |
| Aspect ratio | 16:9 |
| Effective Display Area (W x H) | 940 x 529 mm |
| Number of pixels (H  x  V) | 1920 x 1080 pixels |
| Brightness | 350 cd/m$^2$ (Typ) |
| Contrast Ratio | 3000:1 |
| Response Time | 6.5 ms (G to G) |
| Viewing Angle (Horizontal / Vertical) | 178° / 178° (CR ≧ 10) |
| Panel Life Time*1 | approx. 50000 hours (typ) |

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

### ■ CONNECTION TERMINAL

| | | |
|---|---|---|
| VIDEO IN | 4-Pole Mini Jack (M3) x 1 | 1.0 V [p-p] (75 Ω )<br>0.5 V [rms] |
| HDMI IN | HDMI Type A Connector x 2<br>（VIERA LINK is not supported) | Linear PCM<br>(Sampling frequency : 48 kHz/44.1 kHz/32 kHz) |
| DVI-D IN | DVI-D 24-pin x 1 | Compliance with DVI Revision 1.0<br>Compatible with HDCP 1.1 |
| PC IN | Mini D-Sub 15-pin x 1 (Female) | Y/G : with sync 1.0 V [p-p] (75 Ω )<br>: without sync 0.7 V [p-p] (75 Ω )<br>$P_B/C_B/B$ : 0.7 V [p-p] (75 Ω )<br>$P_R/C_R/R$ : 0.7 V [p-p] (75 Ω )<br>HD/VD : 1.0 - 5.0 V [p-p] (high impedance) |
| SERIAL IN | D-sub 9pin x 1, RS-232C Compatible | |
| LAN | RJ45 x 1 10BASE-T/100BASE-TX, Compatible with PJLink | |
| IR TRANSMITTER IN / OUT | Mini Jack (M3) x 1 / x 1 | |
| AUDIO IN | Stereo Mini Jack (M3) x 1<br>(Shared with DVI-D IN and PC IN) | 0.5 V [rms] |
| AUDIO OUT | Stereo Mini Jack (M3) x 1<br>Variable (- ∞ - 0 dB) (1 kHz 0 dB Input,10 kΩ 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 | 10 W (Full range : 80 × 30 mm× 2) |
| Line Out | 20 W [10 W +10 W ] |

### ■ ELECTRICAL

| | |
|---|---|
| Power Requirements | 220 - 240 V AC 50 Hz/60 Hz |
| Power Consumption | 135 W |
| On Mode Average Power Consumption* | 95 W |
| Power Off Condition | approx. 0.3 W |
| Stand-by Condition | approx. 0.5 W |
| Apparent power | 135 (VA) |

*Based on IEC 62087 Ed.2 measurement method

### ■ MECHANICAL

| | |
|---|---|
| Dimemsions (W x H x D) | 969 x 560 x 61 mm |
| Weight | approx. 8.7 kg |
| Bezel Color | Black |
| Bezel Width | T/R/L:11.9 mm, B:14.9 mm |
| Carton Dimensions (W x H x D) | 1070 x 696 x 159 mm |
| Gross Weight | approx. 14.0 kg |
| Cabinet Material / Color | Plastic/Black |
| Pitch for Wall-Hanging | VESA Compliant 200 x 200 mm (Installed by: M6 screws /Screw hole depth 16 mm) |

### ■ INSTALLATION

| | |
|---|---|
| Orientation | Landscape / Portrait |
| Tilting Angle | 0 - 20 degrees with landscape setting |

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

### ■ ENVIRONMENTAL

| | | |
|---|---|---|
| Operating Environment | Temperature | : 0℃ to 40℃ *1 : 0℃ to 35℃ *2 |
| | Humidity | : 20% to 80% (No condensation) |
| | Altitude | : 0 to 2800 m |
| Storage Enviroment | Temperature | : -20℃ to 60℃ |
| | 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.

## MAIN FEATURE

| | |
|---|---|
| Digital Zoom | Yes |
| Multi Display | Yes |
| Power ON Screen Delay | Yes |
| 1:1 Pixel mode | Yes |
| Auto setup | Yes |
| Screen Saver | Yes |
| PC Power Management | Yes |
| DVI-D Power Management | Yes |
| HDMI Power Management | Yes |
| Input Lock | Yes |
| Button Lock | Yes |
| Remote-control User Level | Yes |
| Input Search | Yes |
| USB Media Player | Yes |
| Data Cloning | Yes |
| Early Warning Software compatible | Yes |
| Multi Monitoring & Control Software compatible | Yes |

## OPTIONAL ACCESSORIES

| | |
|---|---|
| Pedestal Stand | TY-ST43PE8 |

## STANDARD (CERTIFICATIONS)

| | |
|---|---|
| SAFETY REGULATIONS | IEC60950-1 |
| RADIATION REGULATIONS | EN55022:2010 Class A, EN55024:2010,EN61000-3-2 :2006+A1:2009+A2:2009 class D, EN61000-3-3:2013 |

## 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 |

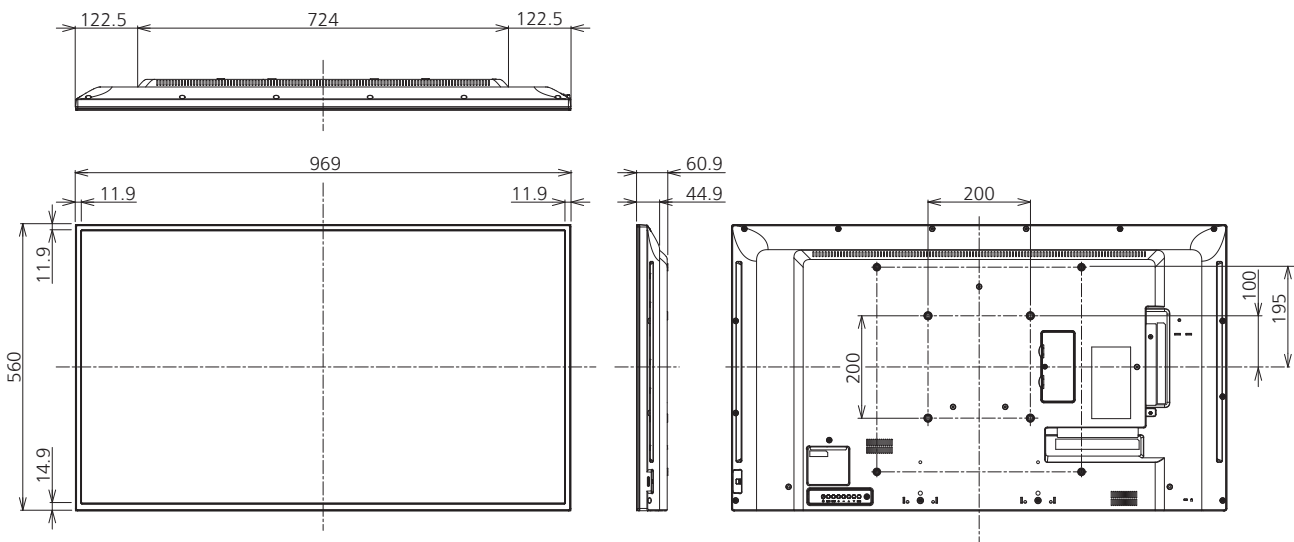*When operated directly in front of receptor.

## INCLUDED ACCESSORIES

- AC cord (1.8 m)   - Remote Control   - Batteries (AAA size) x 2
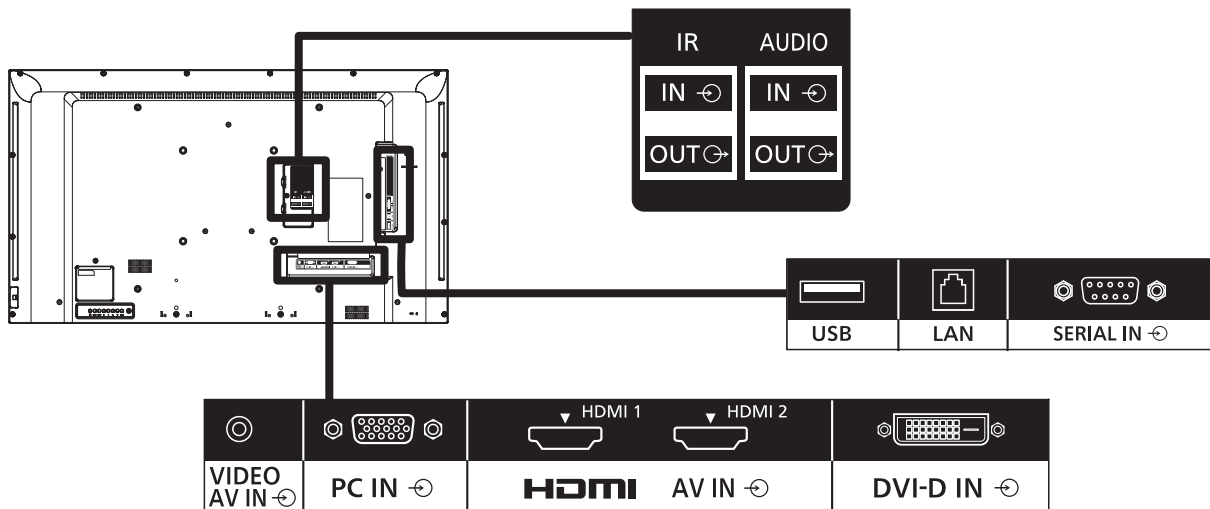- Clamper x 3   - CD-ROM / User Manual   - Operating instruction book

## DIMENSIONS

Cautions: This drawing is not a scale
**Units : mm**



## CONNECTION TERMINAL



* Specifications and appearance are subject to change without notice.

**TH-43LFE8E**

# List of correspondence signals

V : VIDEO　　D : DVI-D
R : D-sub RGB　H : HDMI
Y : YCbCr/YPbPr

The picture signal which can indicate a this machine is as it is the following table.

■ Picture signal form

| Correspondence signal | Resolution (dot) | Scan rate | | Dot clock rate (MHz) | Input format |
| --- | --- | --- | --- | --- | --- |
| | | Horizontal (kHz) | Vertical (Hz) | | |
| NTSC/NTSC4.43 ／ PAL-M/PAL60 | 720 x 480i | 15.73 | 59.94 | – | V |
| PAL/PAL-N/SECAM | 720 x 576i | 15.63 | 50.00 | – | V |
| 525i (480i) | 720 x 480i | 15.73 | 59.94 | 13.50 | R/Y |
| 625i (576i) | 720 x 576i | 15.63 | 50.00 | 13.50 | R/Y |
| 525i (480i) | 720 (1440) x 480i*[2] | 15.73 | 59.94 | 27.00 | D/H |
| 625i (576i) | 720 (1440) x 576i*[2] | 15.63 | 50.00 | 27.00 | D/H |
| 525p (480p) | 720 x 480 | 31.47 | 59.94 | 27.00 | R/Y/D/H |
| 625p (576p) | 720 x 576 | 31.25 | 50.00 | 27.00 | R/Y/D/H |
| 750 (720) /60p | 1280 x 720 | 45.00 | 60.00 | 74.25 | R/Y/D/H |
| 750 (720) /50p | 1280 x 720 | 37.50 | 50.00 | 74.25 | R/Y/D/H |
| 1125(1080)/60i*[1] | 1920 x 1080i | 33.75 | 60.00 | 74.25 | R/Y/D/H |
| 1125 (1080) /50i | 1920 x 1080i | 28.13 | 50.00 | 74.25 | R/Y/D/H |
| 1125 (1080) /24p | 1920 x 1080 | 27.00 | 24.00 | 74.25 | R/Y/D/H |
| 1125 (1080) /24PsF | 1920 x 1080i | 27.00 | 48.00 | 74.25 | R/Y |
| 1125 (1080) /25p | 1920 x 1080 | 28.13 | 25.00 | 74.25 | R/Y/D/H |
| 1125 (1080) /30p | 1920 x 1080 | 33.75 | 30.00 | 74.25 | R/Y/D/H |
| 1125 (1080) /60p | 1920 x 1080 | 67.50 | 60.00 | 148.50 | R/Y/D/H |
| 1125 (1080) /50p | 1920 x 1080 | 56.25 | 50.00 | 148.50 | R/Y/D/H |

■ PC signal form

| Correspondence signal | Resolution (dot) | Scan rate | | Dot clock rate (MHz) | Input format |
| --- | --- | --- | --- | --- | --- |
| | | Horizontal (kHz) | Vertical (Hz) | | |
| VESA400 | 640 x 400 | 31.47 | 70.09 | 25.18 | R/Y/D/H |
| | | 31.50 | 85.08 | 31.50 | R/Y/D/H |
| VGA | 640 x 480 | 31.47 | 59.94 | 25.18 | R/Y/D/H |
| | | 35.00 | 66.67 | 30.24 | R/Y/D/H |
| | | 37.86 | 72.81 | 31.50 | R/Y/D/H |
| | | 37.50 | 75.00 | 31.50 | R/Y/D/H |
| | | 43.27 | 85.01 | 36.00 | R/Y/D/H |
| SVGA | 800 x 600 | 35.16 | 56.25 | 36.00 | R/Y/D/H |
| | | 37.88 | 60.32 | 40.00 | R/Y/D/H |
| | | 48.08 | 72.19 | 50.00 | R/Y/D/H |
| | | 46.88 | 75.00 | 49.50 | R/Y/D/H |
| | | 53.67 | 85.06 | 56.25 | R/Y/D/H |
| MAC16 | 832 x 624 | 49.72 | 74.55 | 57.28 | R/Y/D/H |
| 852 x 480 | 852 x 480 | 31.47 | 59.94 | 34.24 | D/H |
| XGA | 1024 x 768 | 39.55 | 50.00 | 51.89 | D/H |
| | | 48.36 | 60.00 | 65.00 | R/Y/D/H |
| | | 56.48 | 70.07 | 75.00 | R/Y/D/H |
| | | 60.02 | 75.03 | 78.75 | R/Y/D/H |
| | | 65.55 | 81.63 | 86.00 | R/Y/D/H |
| | | 68.68 | 85.00 | 94.50 | R/Y/D/H |
| WSVGA | 1066 x 600 | 37.64 | 59.94 | 53.00 | D/H |
| MXGA | 1152 x 864 | 53.70 | 60.00 | 81.62 | D/H |
| | | 63.99 | 70.02 | 94.20 | R/Y/D/H |
| | | 67.50 | 75.00 | 108.00 | R/Y/D/H |
| | | 77.09 | 85.00 | 119.65 | R/Y/D/H |
| MAC21 | 1152 x 870 | 68.68 | 75.06 | 100.00 | R/Y/D/H |
| 1280 x 720 | 1280 x 720 | 44.76 | 60.00 | 74.48 | R/Y/D/H |
| 1280 x 768 | 1280 x 768 | 39.55 | 49.94 | 65.18 | R/Y/D/H |
| | | 47.70 | 60.00 | 80.14 | R/Y/D/H |
| | | 47.78 | 59.87 | 79.50 | R/Y/D/H |
| 1280 x 800 | 1280 x 800 | 41.20 | 50.00 | 68.56 | R/Y/D/H |
| | | 49.31 | 59.91 | 71.00 | R/Y/D/H |
| | | 49.70 | 59.81 | 83.50 | R/Y/D/H |
| MSXGA | 1280 x 960 | 60.00 | 60.00 | 108.00 | R/Y/D/H |
| | | 85.94 | 85.00 | 148.50 | R/Y |
| SXGA | 1280 x 1024 | 63.98 | 60.02 | 108.00 | R/Y/D/H |
| | | 79.98 | 75.02 | 135.00 | R/Y/D/H |
| | | 91.15 | 85.02 | 157.50 | R/Y/D/H |
| 1360 x 768 | 1360 x 768 | 47.71 | 60.02 | 85.50 | D/H |
| | | 47.70 | 60.00 | 84.72 | D/H |
| | | 47.72 | 59.80 | 84.75 | D/H |
| 1366 x 768 | 1366 x 768 | 39.55 | 50.00 | 69.92 | D/H |
| | | 48.39 | 60.03 | 86.71 | R/Y/D/H |
| | | 48.00 | 60.00 | 72.00 | R/Y/D/H |
| | | 39.56 | 49.89 | 69.00 | R/Y/D/H |
| | | 47.71 | 59.79 | 85.50 | R/Y/D/H |
| SXGA+ | 1400 x 1050 | 65.22 | 60.00 | 122.61 | D/H |
| | | 82.20 | 75.00 | 155.85 | R/Y/D/H |
| WXGA+ | 1440 x 900 | 55.47 | 59.90 | 88.75 | R/Y/D/H |
| | | 55.92 | 60.00 | 106.47 | R/Y/D/H |
| 1600 x 900 | 1600 X 900 | 46.30 | 50.00 | 97.05 | D/H |
| | | 60.00 | 60.00 | 108.00 | D/H |
| | | 55.99 | 59.95 | 118.25 | D/H |
| | | 55.92 | 60.00 | 119.00 | D/H |
| WSXGA+ | 1680 x 1050 | 65.29 | 59.95 | 146.25 | R/Y/D/H |
| UXGA | 1600 x 1200*[3] | 75.00 | 60.00 | 162.00 | R/Y/D/H |
| 1920 x 1080 | 1920 x 1080*[4] | 66.59 | 59.93 | 138.50 | R/Y/D/H |
| | 1920 x 1080 | 67.50 | 60.00 | 148.50 | R/Y/D/H |
| WUXGA | 1920 x 1200*[3] | 74.04 | 59.95 | 154.00 | R/Y/D/H |

● 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