Panasonic

55-inch Class FULL HD LCD Display

TH-55LFE8U

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

DISPLAY PANEL

Screen Size (Diagonal) 54.6-inch (1387 mm)
Panel type IPS / Direct-LED
Aspect ratio 16:9
Effective Display Area (W x H) 47.6" x 26.8" (1209 x 680 mm)
Number of pixels (H x V) 1920 x 1080 pixels
Brightness 350 cd/m² (Typ)
Contrast Ratio 1200:1
Response Time 9 ms (G to G)
Viewing Angle (Horizontal / Vertical) 178° / 178° (CR ≧ 20)
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 )
HDMI IN HDMI Type A Connector x 2 Linear PCM
DVI-D IN DVI-D 24-pin x 1 (Sampling frequency : 48 kHz/44.1 kHz/32 kHz)
PC IN Mini D-Sub 15-pin x 1 (Female) Y/G : with sync 1.0 V [p-p] (75 Ω )
: without sync 0.7 V [p-p] (75 Ω )
: 0.7 V [p-p] (75 Ω )
: 0.5 V [p-p] (75 Ω )
P/VC/B/PR/CR/R/H/D/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 0.5 V [rms]
(A Shared with DVI-D IN and PC IN)
AUDIO OUT Stereo Mini Jack (M3) x 1 0.5 V [rms]
USB USB 2.0 Type A connector x 1 5 V/1A (USB 3.0 is not supported.)

* Due to the construction of terminal, some types of connecting cable or USB memory device cannot be used. Be sure to make confirmation with reference to the detailed drawing of terminal in page 4.

AUDIO

Built in Speaker 20 W / 10 W +10 W

ELECTRICAL

Power Requirements 110 - 127 V AC, 50 Hz/60 Hz
Power Consumption 170 W
On Mode Average Power Consumption* 130 W
Power Off Condition approx. 0.3 W
Stand-by Condition approx. 0.5 W
Apparent power 170 (VA)
*Based on IEC 62087 Ed.2 measurement method

MECHANICAL

Dimensions (W x H x D) 48.8" x 28.0" x 2.5" (1239 x 712 x 62 mm)
Weight approx. 35.3 lbs. (16.0 kg)
Bezel Color Black
Bezel Width 1/8 / 0.5" (12.6 mm), B 0.6" (14.5 mm)
Carton Dimensions (W x H x D) 53.7" x 34.0" x 7.3" (1365 x 864 x 185 mm)
Gross Weight approx. 53.0 lbs. (24.0 kg)
Cabinet Material / Color Plastic/Black
Pitch for Wall Hanging VESA Compliant 15.8" x 15.8" (400 x 400 mm) (Installed by: M6 screws / Screw hole depth 0.63" (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 32 F to 104 F (0C to 40C)
Humidity 20% to 80% (No condensation)
Storage Environment Temperature -4 F to 140 F (-20C to 60C)
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 885170240865
### 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
- 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.

### OPTIONAL ACCESSORIES
- Pedestal Stand: TY-ST43PE8

### STANDARD (CERTIFICATIONS)
- SAFETY REGULATIONS: UL60950-1
- 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.

### INCLUDED ACCESSORIES
- AC cord (71" (1.8 m))
- Remote Control
- Batteries (AAA size) x 2
- Clamper x 3
- Operating instruction book

### DIMENSIONS

Cautions: This drawing is not a scale

Units : inches (mm)

### 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.

## Picture form signal

<table>
<thead>
<tr>
<th>Correspondence signal</th>
<th>Resolution (dot)</th>
<th>Horizontal (kHz)</th>
<th>Vertical (Hz)</th>
<th>Dot clock rate (MHz)</th>
<th>Input format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NTSC/NTSC4.43</strong> / PAL/PALM/PAL60</td>
<td>720 x 480i</td>
<td>15.73</td>
<td>59.94</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td><strong>PAL</strong></td>
<td>720 x 576i</td>
<td>15.63</td>
<td>50.00</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td><strong>525/60 (480i)</strong></td>
<td>720 x 480i</td>
<td>15.73</td>
<td>59.94</td>
<td>13.50</td>
<td>R/Y</td>
</tr>
<tr>
<td><strong>525/50 (576i)</strong></td>
<td>720 x 576i</td>
<td>15.73</td>
<td>59.94</td>
<td>27.00</td>
<td>D/H</td>
</tr>
<tr>
<td><strong>625/50 (480i)</strong></td>
<td>720 x 480i</td>
<td>31.47</td>
<td>59.94</td>
<td>13.50</td>
<td>R/Y</td>
</tr>
<tr>
<td><strong>625/60 (576i)</strong></td>
<td>720 x 576i</td>
<td>31.25</td>
<td>50.00</td>
<td>27.00</td>
<td>D/H</td>
</tr>
<tr>
<td><strong>750/1720/60p</strong></td>
<td>1280 x 720</td>
<td>45.00</td>
<td>50.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>750/1720/50p</strong></td>
<td>1280 x 720</td>
<td>37.50</td>
<td>50.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1125 (1080)/60i</strong></td>
<td>1920 x 1080</td>
<td>27.00</td>
<td>25.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1125 (1080)/25p</strong></td>
<td>1920 x 1080</td>
<td>28.13</td>
<td>25.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1125 (1080)/30p</strong></td>
<td>1920 x 1080</td>
<td>33.75</td>
<td>30.00</td>
<td>74.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1125 (1080)/60p</strong></td>
<td>1920 x 1080</td>
<td>67.50</td>
<td>60.00</td>
<td>148.50</td>
<td>R/Y/D/H</td>
</tr>
</tbody>
</table>

## PC signal form

<table>
<thead>
<tr>
<th>Correspondence signal</th>
<th>Resolution (dot)</th>
<th>Horizontal (kHz)</th>
<th>Vertical (Hz)</th>
<th>Dot clock rate (MHz)</th>
<th>Input format</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VESA400</strong></td>
<td>640 x 400</td>
<td>31.47</td>
<td>70.09</td>
<td>25.18</td>
<td>R/Y/D/H</td>
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<tr>
<td><strong>VGA</strong></td>
<td>640 x 480</td>
<td>31.50</td>
<td>85.08</td>
<td>31.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>SVGA</strong></td>
<td>800 x 600</td>
<td>43.27</td>
<td>56.25</td>
<td>36.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>Mac16</strong></td>
<td>832 x 624</td>
<td>48.08</td>
<td>72.19</td>
<td>40.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>852 x 480</strong></td>
<td>852 x 480</td>
<td>48.68</td>
<td>75.00</td>
<td>49.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>XGA</strong></td>
<td>1024 x 768</td>
<td>53.67</td>
<td>85.06</td>
<td>56.25</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>MXGA</strong></td>
<td>1152 x 864</td>
<td>53.70</td>
<td>80.00</td>
<td>57.28</td>
<td>R/Y/D/H</td>
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<tr>
<td><strong>Mac21</strong></td>
<td>1152 x 870</td>
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<td>R/Y/D/H</td>
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<tr>
<td><strong>1280 x 720</strong></td>
<td>1280 x 720</td>
<td>67.50</td>
<td>75.00</td>
<td>108.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1280 x 768</strong></td>
<td>1280 x 768</td>
<td>39.55</td>
<td>49.94</td>
<td>65.18</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1280 x 800</strong></td>
<td>1280 x 800</td>
<td>47.70</td>
<td>60.00</td>
<td>80.14</td>
<td>R/Y/D/H</td>
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<tr>
<td><strong>MSXGA</strong></td>
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<td>60.00</td>
<td>80.14</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>SXGA</strong></td>
<td>1280 x 1024</td>
<td>85.94</td>
<td>85.00</td>
<td>148.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1360 x 768</strong></td>
<td>1360 x 768</td>
<td>47.70</td>
<td>60.00</td>
<td>80.14</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1360 x 768</strong></td>
<td>1360 x 768</td>
<td>47.70</td>
<td>60.00</td>
<td>80.14</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1366 x 768</strong></td>
<td>1366 x 768</td>
<td>47.72</td>
<td>59.80</td>
<td>84.75</td>
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<tr>
<td><strong>SXGA</strong></td>
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<td>75.02</td>
<td>135.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>WXGA</strong></td>
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<td>91.15</td>
<td>85.02</td>
<td>157.50</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>1600 x 900</strong></td>
<td>1600 x 900</td>
<td>47.70</td>
<td>60.02</td>
<td>85.50</td>
<td>D/H</td>
</tr>
<tr>
<td><strong>1600 x 900</strong></td>
<td>1600 x 900</td>
<td>47.70</td>
<td>60.02</td>
<td>85.50</td>
<td>D/H</td>
</tr>
<tr>
<td><strong>1600 x 1050</strong></td>
<td>1600 x 1050</td>
<td>47.72</td>
<td>59.80</td>
<td>84.75</td>
<td>D/H</td>
</tr>
<tr>
<td><strong>WXGA</strong></td>
<td>1680 x 1050</td>
<td>48.39</td>
<td>60.03</td>
<td>86.71</td>
<td>R/Y/D/H</td>
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<tr>
<td><strong>1600 x 1200</strong></td>
<td>1600 x 1200</td>
<td>48.00</td>
<td>60.00</td>
<td>72.00</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>WUXGA</strong></td>
<td>1920 x 1080</td>
<td>48.39</td>
<td>60.03</td>
<td>86.71</td>
<td>R/Y/D/H</td>
</tr>
<tr>
<td><strong>WUXGA</strong></td>
<td>1920 x 1080</td>
<td>48.00</td>
<td>60.00</td>
<td>72.00</td>
<td>R/Y/D/H</td>
</tr>
</tbody>
</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 CTV-RB (Reduced Blanking) standard.
Drawing of terminals

View from back

Magnified figure of terminal

Sectional view of terminal a

Sectional view of terminal b

*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.