



47-inch Class Tough LED Display  
with Dust and Water resistant and Direct Sunlight Capability

## TH-47LFX60U

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

#### ■ DISPLAY PANEL

Screen Size (Diagonal)	46.9-inch (1,192 mm)
Panel type	IPS / D-LED
Aspect ratio	16:9
Effective Display Area (W x H)	40.9" x 23.0" (1,039 x 584 mm)
Number of pixels (H x V)	1,920 x 1,080 pixels
Brightness	2,000 cd/m <sup>2</sup> (Typ)
Contrast Ratio	1,300:1
Response Time	10 ms (G to G)
Viewing Angle (Horizontal/Vertical)	178° / 178°
Panel Life Time	approx. 50,000 hours*

\* An approximate time until the panel brightness decreases to half of its original value.  
In the remote control power "OFF", when using the outdoor mode is included in the panel life time.

#### ■ CONNECTION TERMINAL

HDMI IN	HDMI TYPE A Connector x 1	
DVI-D IN	DVI-D 24pin x 1	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
AUDIO IN (L/R)	M3 jack x 1 (Shared with PC IN)	0.5 Vrms
PC IN	MINI D-sub 15pin x1 (Female)	G : with sync 1.0 Vp-p (75Ω) : without sync 0.7 Vp-p (75Ω) B : 0.7 Vp-p (75Ω) R : 0.7 Vp-p (75Ω) HD/VD : 1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (L/R)	M3 jack x 1 (Shared with DVI-D IN)	0.5 Vrms
DIGITAL LINK	RJ45 x 1 (Shared with LAN)	

#### ■ CONTROL

SERIAL IN	D-sub 9pin x 1, RS-232C compatible
LAN	RJ45 x 1, 100BASE-TX, Compatible with PLink (Shared with DIGITAL LINK)

#### ■ AUDIO

AUDIO OUT	Pin jack (L/R) x 1 set
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#### ■ ELECTRICAL

Power Requirements	110-127 V AC, 50/60Hz
Power Consumption	370 W
Power off condition	approx. 0.3 W
Stand-by condition	approx. 0.5 W
Outdoor mode ON	approx. 41 W
Network stand-by mode	approx. 16 W

#### ■ MECHANICAL

Dimensions (W x H x D)	45.8" x 27.8" x 8.5" (1,162 x 706 x 216 mm)
Bezel Width	1.3 inch (32 mm)
Carton Dimensions (W x H x D)	51.5" x 33.5" x 12.7" (1,308 x 851 x 323 mm)
Weight	approx. 103 lbs. (47 kg)
Gross weight	approx. 121 lbs. (55 kg)
Cabinet Material / Color	Aluminum / Black (Front cabinet) & Silver (Back cover)
Protection Glass	Yes
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm) (Installed by: M6 screws / Screw hole depth 0.67 - 2.17" (17 - 55 mm))

#### ■ ENVIRONMENTAL

Direct Sunlight Capability (measures against Blackout)	Yes (Built-in air cooling system)
Dust and Water resistant level	IP55
Operating environment	Temperature : 32°F to 122°F (0°C to 50°C), during Outdoor mode : -4°F to 122°F (-20°C to 50°C) Humidity : 20 % to 80 % (Non condensation)
Storage environment	Temperature : -4°F to 140°F (-20°C to 60°C) Humidity : 20 % to 80 % (Non condensation)

Don't use in places where the presence of corrosive gases or salt damage area.

#### ■ INCLUDED ACCESSORIES

- AC power cord (approx. 78.74" (2 m)) - Remote control transmitter - Batteries - Operating instruction book - Door holders x 2 - Panasonic badge - Ferrite core x 2 - Cable tie x 2 - Screw x 12

**MAIN FEATURE**

Digital Zoom	Yes (x 1 ~ x 4)
MULTI DISPLAY	Yes (N x M, up to 5 x 5)
Power ON Screen Delay	Yes
Seam Hides Video Off Mode	Yes
1:1 Pixel Mode	Yes
Automatic Picture Position	Yes
Screensaver	Yes
Power Save	Yes
PC/DVI-D Power management	Yes
ECO Mode	ON / OFF
Input lock	Yes
Button lock	Yes
Remote-control User Level	Yes
Outdoor mode	Yes
Input Search	Yes
Orientation	Landscape / Portrait
Polarized sunglasses correspondence	Yes

**STANDARD (CERTIFICATIONS)**

IP (Ingress Protection) Rating	Corresponding to IP55
Safety Regulations	UL60065, CAN/CSA22.2 No 60065:03
Radiation Regulations	FCC Part15 Class B, ICES-003

**OPTIONAL ACCESSORIES**

Replacement Air Filter	TY-AF60STD
Early Warning Software	(T.B.D)

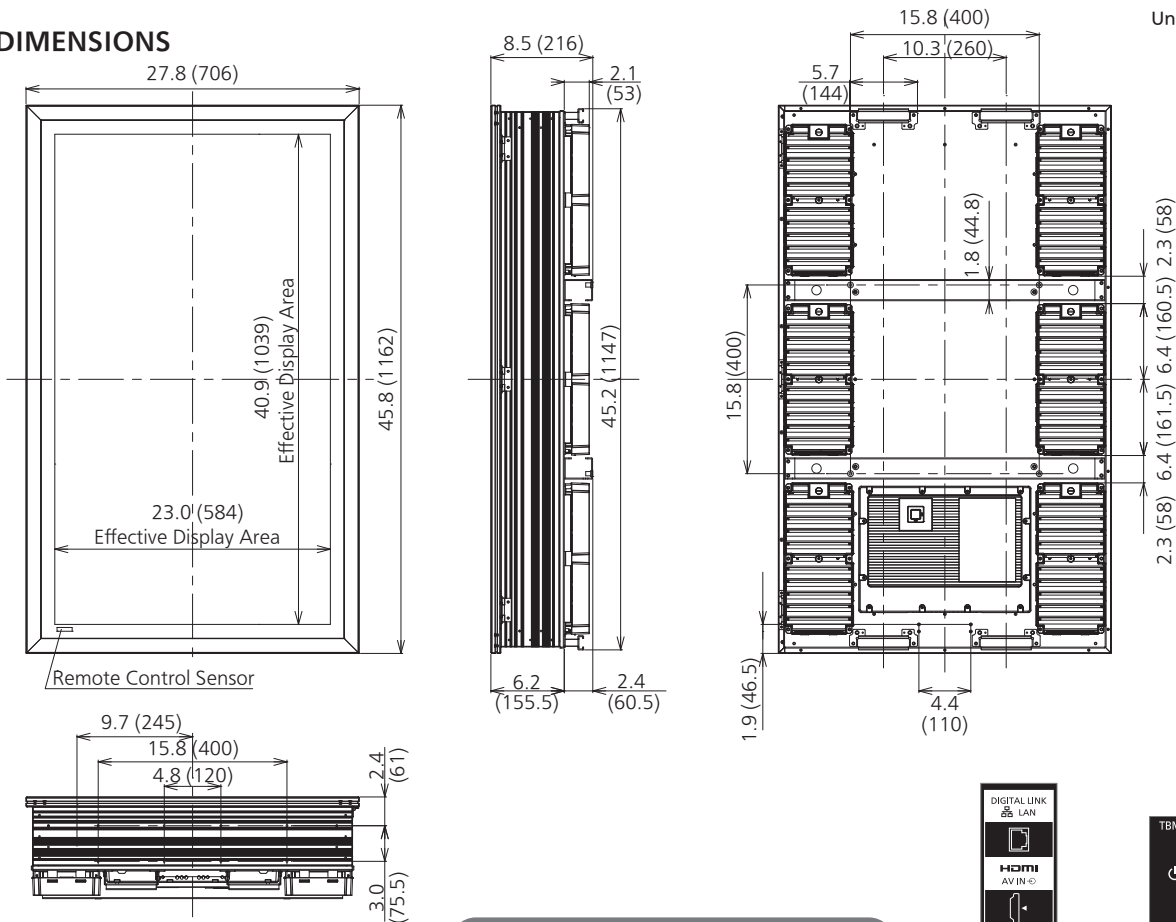
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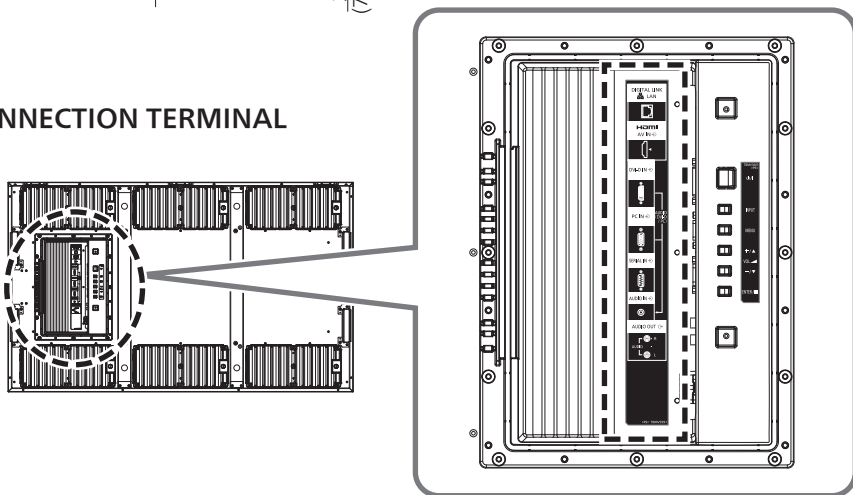
Cautions: This drawing is not a scale

**DIMENSIONS**

Units : inches (mm)



**CONNECTION TERMINAL**



## ● APPLICABLE INPUT SIGNALS

### PC signals

\* Mark: Applicable input signal

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	PC IN (Dot clock (MHz))	DVI-D IN (Dot clock (MHz))	HDMI
1	640x400@70Hz	31.46	70.07	* (25.17)		
2	640x480@60Hz	31.47	59.94	* (25.18)	* (25.18)	*
3	640x480@72Hz	37.86	72.81	* (31.5)		
4	640x480@75Hz	37.50	75.00	* (31.5)		
5	640x480@85Hz	43.27	85.01	* (36.0)		
6	800x600@56Hz	35.16	56.25	* (36.0)		
7	800x600@60Hz	37.88	60.32	* (40.0)	* (40.0)	*
8	800x600@72Hz	48.08	72.19	* (50.0)		
9	800x600@75Hz	46.88	75.00	* (49.5)		
10	800x600@85Hz	53.67	85.06	* (56.25)		
11	852x480@60Hz	31.47	59.94		* (33.24)	*
12	1024x768@50Hz	39.55	50.00		* (51.89)	*
13	1024x768@60Hz	48.36	60.00	* (65.0)	* (65.0)	*
14	1024x768@70Hz	56.48	70.07	* (75.0)		
15	1024x768@75Hz	60.02	75.03	* (78.75)		
16	1024x768@85Hz	68.68	85.00	* (94.5)		
17	1066x600@60Hz	37.64	59.94		* (53.0)	*
18	1152x864@60Hz	53.70	60.00		* (81.62)	*
19	1152x864@75Hz	67.50	75.00	* (108.0)		
20	1280x768@60Hz	47.70	60.00	* (80.14)		
21	1280x960@60Hz	60.00	60.00	* (108.0)		
22	1280x960@85Hz	85.94	85.00	* (148.5)		
23	1280x1024@60Hz	63.98	60.02	* (108.0)	* (108.0)	*
24	1280x1024@75Hz	79.98	75.02	* (135.0)		
25	1280x1024@85Hz	91.15	85.02	* (157.5)*1		
26	1366x768@50Hz	39.55	50.00		* (69.92)	*
27	1366x768@60Hz	48.36	60.00	* (86.71)	* (87.44)	*
28	1400x1050@60Hz	65.22	60.00		* (122.61)	*
29	1600x1200@60Hz	75.00	60.00	* (162.0)	* (162.0)	*
30	1920x1080@60Hz	67.50	60.00	* (148.5)	* (148.5)	*
31	1920x1200@60Hz	74.04	59.95		* (154.0)	*
32	Macintosh13"(640x480)	35.00	66.67	* (30.24)		
33	Macintosh16"(832x624)	49.72	74.55	* (57.28)		
34	Macintosh21"(1152x870)	68.68	75.06	* (100.0)		

\* 1:Not compatible with SYNC ON G.

- The signal format automatically detected may differ from the actual input signal in display.

### Component signals

\* Mark: Applicable input signal

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	DVI-D IN (Dot clock (MHz))	HDMI
1	525(480)/60i	15.73	59.94	* (27.0)	*
2	525(480)/60p	31.47	59.94	* (27.0)	*
3	625(575)/50i	15.63	50.00		
4	625(576)/50i	15.63	50.00	* (27.0)	*
5	625(575)/50p	31.25	50.00		*
6	625(576)/50p	31.25	50.00	* (27.0)	*
7	750(720)/60p	45.00	60.00	* (74.25)	*
8	750(720)/50p	37.50	50.00	* (74.25)	*
9	1,125(1,080)/60p	67.50	60.00	* (148.5)	*
10	1,125(1,080)/60i	33.75	60.00	* (74.25)	*
11	1,125(1,080)/50p	56.25	50.00	* (148.5)	*
12	1,125(1,080)/50i	28.13	50.00	* (74.25)	*
13	1,125(1,080)/24sF	27.00	48.00		
14	1,125(1,080)/30p	33.75	30.00	* (74.25)	*
15	1,125(1,080)/25p	28.13	25.00	* (74.25)	*
16	1,125(1,080)/24p	27.00	24.00	* (74.25)	*

- The corresponding signals for DIGITAL LINK inputs are the same as those for HDMI inputs.