



80-inch Class FULL HD LCD Display

## TH-80LF50U

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

#### ■ DISPLAY PANEL

Screen Size (Diagonal)	80-inch class (2032 mm)
Panel type	LED
Aspect ratio	16:9
Effective Display Area (W x H)	69.7" x 39.2" (1771 x 996 mm)
Number of pixels (H x V)	1920 x 1080 pixels
Brightness (Typ)	700 cd/m <sup>2</sup>
Contrast Ratio	5000:1
Response Time	9 ms (G to G)
Viewing Angle (Horizontal / Vertical)	176° / 176°
Operating Life	approx. 50000 hours*

\* An approximate time until the panel brightness decreases to half of its original value.

#### ■ CONNECTION TERMINAL

VIDEO IN	BNC x 1	1.0 V <sub>p-p</sub> (75Ω)
AUDIO IN (L/R)	RCA pin jack x 1 set	
HDMI IN	HDMI TYPE A x 1	
Component / RGB IN	BNC x 3 set	G/Y : with sync 1.0 V <sub>p-p</sub> (75Ω) B/Pb/C <sub>B</sub> : 0.7 V <sub>p-p</sub> (75Ω) R/Pr/C <sub>R</sub> : 0.7 V <sub>p-p</sub> (75Ω) 0.5 V <sub>rms</sub>
AUDIO IN (L/R)	RCA pin jack x 1 set	0.5 V <sub>rms</sub>
DVI-D IN	DVI-D 24 Pin x 1	Compliance with DVI Revision 1.0
AUDIO IN (L/R)	M3 jack x 1 (Shared with PC IN)	0.5 V <sub>rms</sub>
PC IN	Mini D-sub 15 Pin x 1 (Female)	Y or G with sync 1.0 V <sub>p-p</sub> (75Ω) Y or G without sync 0.7 V <sub>p-p</sub> (75Ω) P <sub>B</sub> /C <sub>B</sub> /B : 0.7 V <sub>p-p</sub> (75Ω) P <sub>R</sub> /C <sub>R</sub> /R : 0.7 V <sub>p-p</sub> (75Ω) HD/VD : 1.0 - 5.0 V <sub>p-p</sub> (high impedance)
AUDIO IN (L/R)	M3 jack x 1 (Shared with DVI-D IN)	0.5 V <sub>rms</sub>
DVI-D OUT	DVI-D 24 pin x 1	Compliance with DVI Revision 1.0
Function SLOT	SLOT2.0 x 1	

#### ■ CONTROL

SERIAL IN / OUT	D-SUB 9pin x 1 / D-SUB 9pin x 1, RS-232C COMPATIBLE
LAN	RJ45 10BASE-T / 100BASE-TX, compatible with PLink™

#### ■ AUDIO

LINE OUT	RCA Pin (L/R) x 1 set, Output level: Variable (-∞ – 0 dB)
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#### ■ ELECTRICAL

Power Requirements	110-127 V AC, 50/60Hz
Power Consumption	approx. 380 W
On Mode Average Power Consumption	approx. 328 W*
Power off condition	0.3 W
Stand-by condition	0.5 W

\* Based on IEC 62087 Ed.2 measurement method.

#### ■ MECHANICAL

Dimensions (W x H x D)	72.8" x 42.3" x 3.5" (1848 x 1073 x 89 mm)
Carton Dimensions (W x H x D)	78.6" x 46.9" x 13.8" (1995 x 1191 x 351 mm)
Weight	approx. 132.3 lbs (60 kg)
Gross Weight	approx. 156.5 lbs (71 kg)
Cabinet Material / Color	Aluminum / Black
Pitch for Wall-Hanging	VESA Compliant 15.8" x 15.8" (400 x 400 mm) (Installed by: M8 screws / Screw hole depth 0.6"-1.6" (15-40 mm))

#### ■ INSTALLATION REQUIREMENT

Orientation	Landscape / Portrait
Tilting Angle	0-20 degrees forward 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 (0°C to 40°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)

\* If the Temperature is 104°F to 140°F (40°C to 60°C), please keep in humidity 20% to 40%.

UPC Code	885170103917
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**MAIN FEATURE**

24 / 7 Operation	Yes
Ceiling-Suspension	Yes
Digital Zoom	Yes (x1~x4)
Video Wall	Yes (N x M, up to 5 x 5)
Daisy Chain	Yes
1:1 Pixel mode	Yes
Automatic Picture Position	Yes
Screen Saver	Yes
PC / DVI Power Management	Yes
ECO mode	Yes
Button / Input lock	Yes
Orientation Landscape / Portrait	Yes
Remote-control User Level	Yes
Power-on Screen Delay	Yes
Seam Hides Video Off Mode	Yes
DVI-D Power Management	Yes
Input Search	Yes

**STANDARD (CERTIFICATIONS)**

SAFETY REGULATIONS	UL60065, CAN / CSA-22.2No60065:03
RADIATION REGULATIONS	FCC Part 15 Class-B, ICES-003

**REMOTE CONTROL TRANSMITTER**

Power Requirements	DC 3 V (Batteries (AA Size x 2))
Operation distance	approx. 23 ft (7 m) in front of Display
Weight	approx. 3.5 oz (100 g) including batteries

**INCLUDED ACCESSORIES**

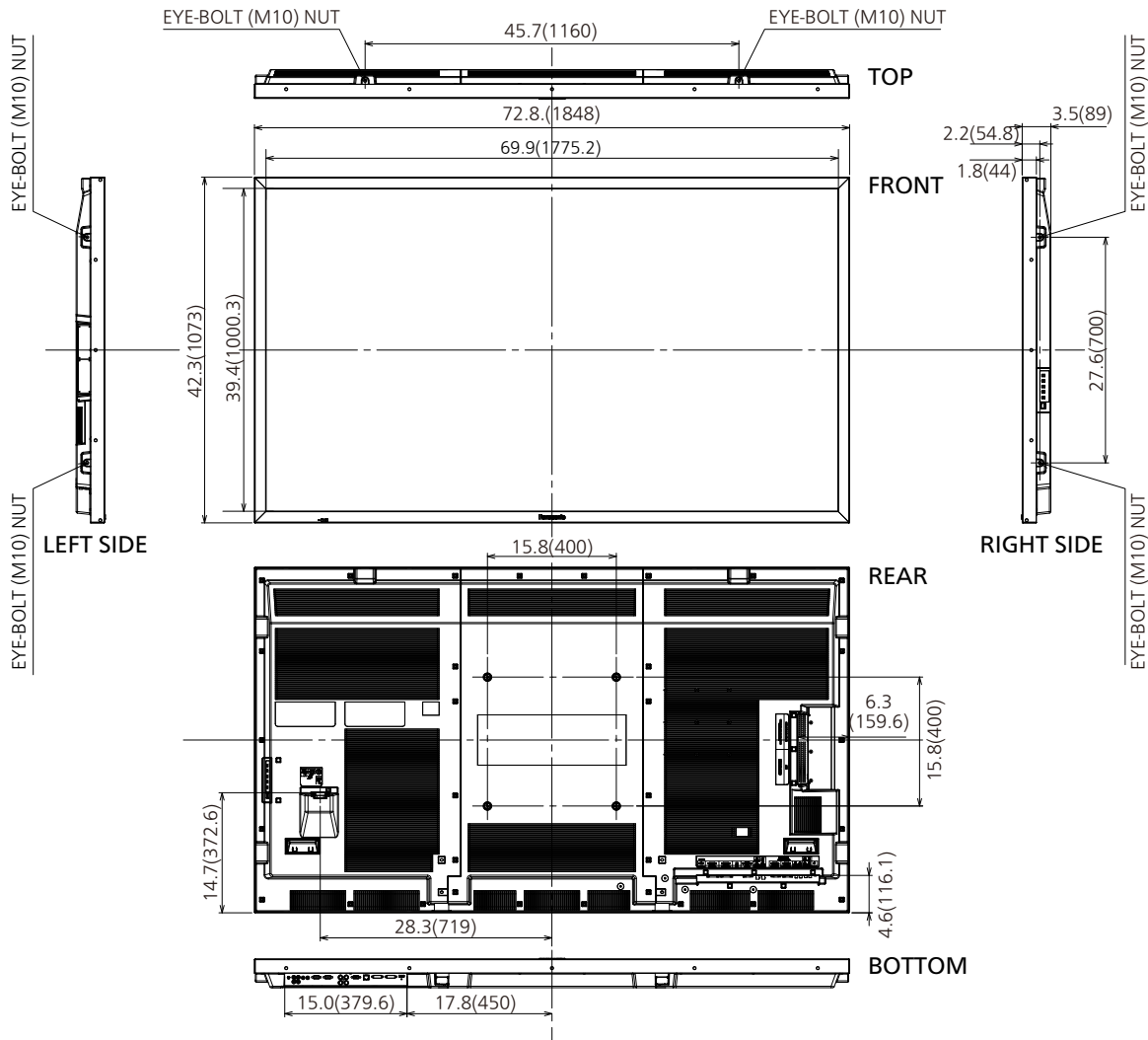
- Operating Instruction book
- CD-ROM
- Remote Control Transmitter
- Batteries (AA Size x 2)
- Power supply cord
- Clamper

**OPTIONAL ACCESSORIES**

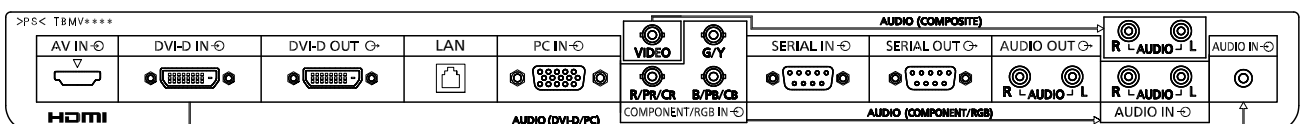
Pedestal	TY-ST65P20
Wall hanging bracket	TY-WK70PV50
Protective Glass	TY-PG80LF50
Dual HDMI Terminal Board	TY-FB10HMD
HD-SDI Terminal Board	TY-FB10HD

**DIMENSIONS**

Cautions: This drawing is not a scale  
Units : inches (mm)



**CONNECTION TERMINAL**



## APPLICABLE INPUT SIGNALS

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	VIDEO IN	COMPONENT IN RGB IN / PC IN (Dot clock (MHz))	DVI-D IN (Dot clock (MHz))	HDMI
1	NTSC	15.73	59.94	Y			
2	PAL	15.63	50.00	Y			
3	PAL60	15.73	59.94	Y			
4	SECAM	15.63	50.00	Y			
5	NTSC 4.43	15.73	59.94	Y			
6	PAL M	15.73	59.94	Y			
7	PAL N	15.63	50.00	Y			
8	525 (480) / 60i	15.73	59.94		* (13.5)	* (27.0)	*
9	525 (480) / 60p	31.47	59.94		* (27.0)	* (27.0)	*
10	625 (575) / 50i	15.63	50.00		* (13.5)		
11	625 (576) / 50i	15.63	50.00			* (27.0)	*
12	625 (575) / 50p	31.25	50.00		* (27.0)		
13	625 (576) / 50p	31.25	50.00			* (27.0)	*
14	750 (720) / 60p	45.00	60.00		* (74.25)	* (74.25)	*
15	750 (720) / 50p	37.50	50.00		* (74.25)	* (74.25)	*
16	1125 (1080) / 60p	67.50	60.00		* (148.5) *1	* (148.5)	*
17	1125 (1080) / 60i	33.75	60.00		* (74.25) *1	* (74.25)	*
18	1125 (1080) / 50p	56.26	50.00		* (148.5) *1	* (148.5)	*
19	1125 (1080) / 50i	28.13	50.00		* (74.25) *1	* (74.25)	*
20	1125 (1080) / 24sF	27.00	48.00		* (74.25) *2		
21	1125 (1080) / 30p	33.75	30.00		* (74.25) *1	* (74.25)	
22	1125 (1080) / 25p	28.13	25.00		* (74.25) *1	* (74.25)	
23	1125 (1080) / 24p	27.00	24.00		* (74.25) *1	* (74.25)	*
24	640 x 400 @70 Hz	31.46	70.07		* (25.17)		
25	640 x 480 @60 Hz	31.47	59.94		* (25.18)	* (25.18)	*
26	640 x 480 @72 Hz	37.86	72.81		* (31.5)		
27	640 x 480 @75 Hz	37.50	75.00		* (31.5)		
28	640 x 480 @85 Hz	43.27	85.01		* (36.0)		
29	800 x 600 @56 Hz	35.16	56.25		* (36.0)		
30	800 x 600 @60 Hz	37.88	60.32		* (40.0)	* (40.0)	*
31	800 x 600 @72 Hz	48.08	72.19		* (50.0)		
32	800 x 600 @75 Hz	46.88	75.00		* (49.5)		
33	800 x 600 @85 Hz	53.67	85.06		* (56.25)		
34	852 x 480 @60 Hz	31.47	59.94		* (33.54)	* (34.24)	*
35	1024 x 768 @50 Hz	39.55	50.00			* (51.89)	*
36	1024 x 768 @60 Hz	48.36	60.00		* (65.0)	* (65.0)	*
37	1024 x 768 @70 Hz	56.48	70.07		* (75.0)		
38	1024 x 768 @75 Hz	60.02	75.03		* (78.75)		
39	1024 x 768 @85 Hz	68.68	85.00		* (94.5)		
40	1066 x 600 @60 Hz	37.64	59.94		* (53.0)	* (53.0)	*
41	1152 x 864 @60 Hz	53.70	60.00			* (81.62)	*
42	1152 x 864 @75 Hz	67.50	75.00		* (108.0)		
43	1280 x 768 @60 Hz	47.70	60.00		* (80.14)		
44	1280 x 960 @60 Hz	60.00	60.00		* (108.0)		
45	1280 x 960 @85 Hz	85.94	85.00		* (148.5)		
46	1280 x 1024 @60 Hz	63.98	60.02		* (108.0)	* (108.0)	*
47	1280 x 1024 @75 Hz	79.98	75.03		* (135.0)		
48	1280 x 1024 @85 Hz	91.15	85.02		* (157.5) *3		
49	1366 x 768 @50 Hz	39.55	50.00			* (69.92)	*
50	1366 x 768 @60 Hz	48.36	60.00		* (86.71)	* (87.44)	*
51	1400 x 1050 @60 Hz	65.22	60.00			* (122.61)	*
52	1600 x 1200 @60 Hz	75.00	60.00		* (162.0)	* (162.0)	*
53	1920 x 1080 @60 Hz	67.50	60.00		* (148.5)	* (148.5)	*
54	1920 x 1200 @60 Hz	74.04	59.95			* (154.0)	*
55	Macintosh13" (640 x 480)	35.00	66.67		* (30.24)		
56	Macintosh16" (832 x 624)	49.72	74.54		* (57.28)		
57	Macintosh21" (1152 x 870)	68.68	75.06		* (100.0)		

\*1: Based on SMPTE 274M standard.

\*2: Based on SMPTE RP211 standard.

\*3: Not compatible with SYNC ON G.

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