



55-inch Class FULL HD LCD Display

## TH-55LF80W

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

#### ■ DISPLAY PANEL

Screen Size (Diagonal)	55-inch (1387 mm)
Panel type	IPS / Edge-LED
Aspect ratio	16:9
Effective Display Area (W x H)	1209 x 680 mm
Number of pixels (H x V)	1920 x 1080 pixels
Brightness	700 cd/m <sup>2</sup> (Typ)
Contrast Ratio	1300:1
Dynamic Contrast	50000:1
Response Time	8 ms (G to G)
Viewing Angle (Horizontal / Vertical)	178° / 178° (CR ≥ 10)
Panel Surface Treatment	Anti glare (Haze 10%)
Panel Life Time*1	approx. 60000 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

HDMI IN	HDMI Type A Connector x 2	Linear PCM (Sampling frequency : 48 kHz/44.1 kHz/32 kHz)
COMPONENT/RGB IN	BNC x 1 set	Y/G : BNC Contact Plug with sync 1.0 Vp-p (75 Ω) P <sub>B</sub> /C <sub>B</sub> /B : BNC Contact Plug without sync 0.7 Vp-p (75 Ω) P <sub>R</sub> /C <sub>R</sub> /R : BNC Contact Plug without sync 0.7 Vp-p (75 Ω)
AUDIO IN	Stereo Mini Jack (M3) x 1 (Shared with VIDEO IN)	0.5 Vrms
VIDEO IN	BNC x 1 (Shared with COMPONENT/RGB Y/G)	1.0 Vp-p (75 Ω) 0.5 Vrms
AUDIO IN	Stereo Mini Jack (M3) x 1 (Shared with COMPONENT IN)	0.5 Vrms
DVI-D IN	DVI-D 24-pin x 1	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
AUDIO IN	Stereo Mini Jack (M3) x 1 (Shared with PC IN)	0.5 Vrms
DVI-D OUT	DVI-D 24-pin x 1	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
PC IN	Mini D-Sub 15-pin x 1 (Female)	Y/G : with sync 1.0 Vp-p (75 Ω) : without sync 0.7 Vp-p (75 Ω) P <sub>B</sub> /C <sub>B</sub> /B : without sync 0.7 Vp-p (75 Ω) P <sub>R</sub> /C <sub>R</sub> /R : without sync 0.7 Vp-p (75 Ω) HD/VD : 1.0 - 5.0 Vp-p (high impedance)
AUDIO IN	Stereo Mini Jack (M3) x 1 (Shared with DVI-D IN)	0.5 Vrms
SERIAL IN/OUT	D-sub 9pin x 1 / x 1, RS-232C Compatible	
LAN/DIGITAL LINK IN	RJ45 x 1 100BASE-TX, Compatible with PLink	
IR TRANSMITTER IN / OUT	Stereo Mini Jack (M3) x 1 / x 1	
AUDIO OUT	Stereo Mini Jack (M3) x 1 Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 k Ω Load)	0.5 Vrms
USB	USB 2.0 Type A connector x 1 DC 5 V/1A (USB3.0 Incompatible)	

#### ■ SPEAKER

Built in Speaker	20 W [10 W+10 W]
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#### ■ ELECTRICAL

Power Requirements	220 - 240 V AC 50 / 60 Hz
Power Consumption	190 W
On Mode Average Power Consumption*	145 W
Power Off Condition	approx. 0.3 W
Stand-by Condition	approx. 0.5 W
Apparent power	200 VA

\*Based on IEC 62087 Ed.2 measurement method

#### ■ MECHANICAL

Dimensions (W x H x D)	1229 x 699 x 72mm
Dimensions (W x H x D) (Excluding handle part)	1229 x 699 x 57mm
Weight	approx. 24.7 kg
Bezel Color	Black
Bezel Width	T/R/L/B : 6.3 mm
Carton Dimensions (W x H x D)	1444 x 922 x 223 mm
Gross Weight	approx. 32.0 kg
Cabinet Material / Color	Metal / Black
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm (Installed by: M6 screws / Screw hole depth 10 mm)

#### ■ INSTALLATION REQUIREMENT

Orientation	Landscape / Portrait
Tilting Angle	0 - 45 degrees forward / backward with landscape / portrait setting

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

#### ■ ENVIRONMENTAL

Operating Environment	Temperature	: 0 °C to 40 °C *1 ; 0 °C to 35 °C *2
	Humidity	: 20% to 80% (No condensation)
	Altitude	: 0 to 2800 m
Storage Environment	Temperature	: -20 °C to 60 °C
	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**

USB Media Player	Yes
Fail back & Fail over	Yes
Data Cloning	Yes
Early Warning Software compatible	Yes
Multi Monitoring & Control Software compatible	Yes
Operating Time	24h/7d
Digital Zoom	Yes
Multi Display	Yes
Power ON Screen Delay	Yes
1:1 Pixel mode	Yes
Auto setup	Yes
Screen Saver	Yes
HDMI Power Management	Yes
DIGITAL LINK Power Management	Yes
PC Power Management	Yes
DVI-D Power Management	Yes
Input Lock	Yes
Button Lock	Yes
Remote-control User Level	Yes
Input Search	Yes

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 a moving images.

**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 AS/NZS CISPR22:2009

**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**

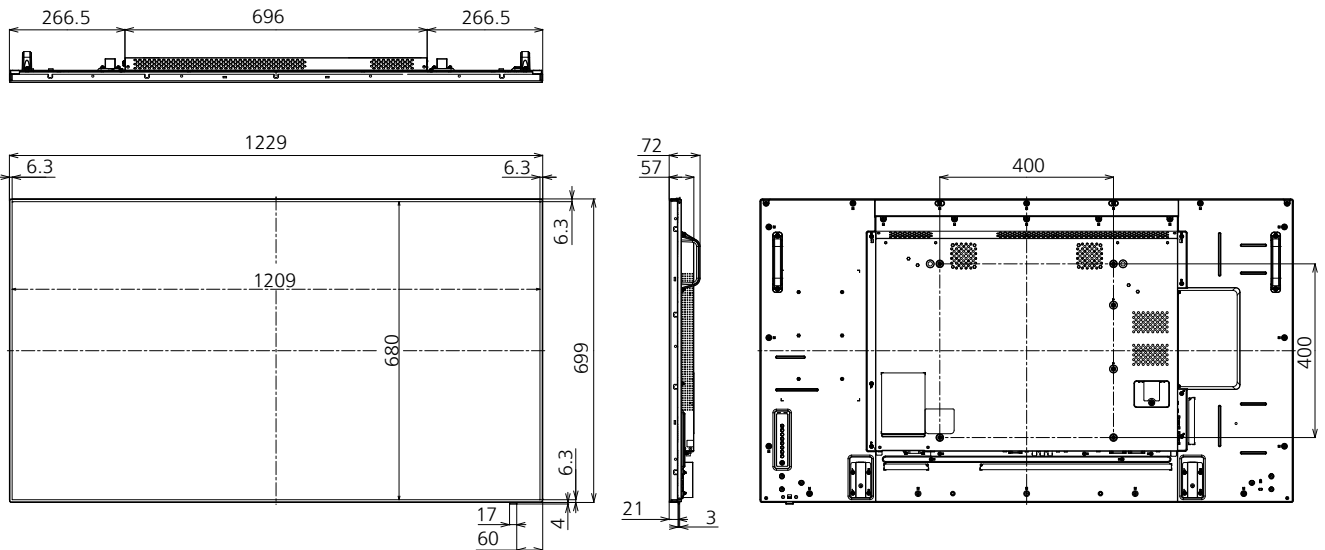
- AC cord (2.0 m)
- Remote Control
- Batteries (AAA size) x 2
- Clamper x 3
- Operating instruction book

**OPTIONAL ACCESSORIES**

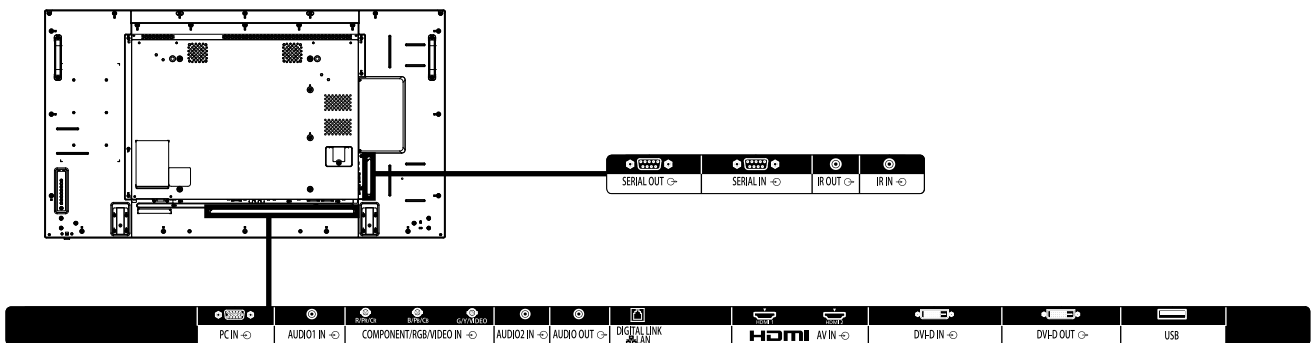
Pedestal Stand	TY-ST43PE8
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**DIMENSIONS**

Cautions: This drawing is not a scale  
Units : mm



**CONNECTION TERMINAL**



\* Specifications and appearance are subject to change without notice.

**List of correspondence signals**

V : VIDEO  
 R : D-sub RGB  
 Y : YCbCr/YpBpR  
 D : DVI-D  
 H : HDMI  
 DL : DIGITAL LINK

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

Correspondence signal	Resolution (dot)	Scan rate		Dot clock rate (MHz)	Input format	DIGITAL LINK
		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 480	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 480 <sup>*2</sup>	15.73	59.94	27.00	D/H	DL
625i (576i)	720 (1440) x 576i <sup>*2</sup>	15.63	50.00	27.00	D/H	DL
525p (480p)	720 x 483	31.47	59.94	27.00	R/Y/D/H	DL
625p (576p)	720 x 576	31.25	50.00	27.00	R/Y/D/H	DL
750 (720) /60p	1280 x 720	45.00	60.00	74.25	R/Y/D/H	DL
750 (720) /50p	1280 x 720	37.50	50.00	74.25	R/Y/D/H	DL
1125 (1080) /60i <sup>*1</sup>	1920 x 1080i	33.75	60.00	74.25	R/Y/D/H	DL
1125 (1080) /50i	1920 x 1080i	28.13	50.00	74.25	R/Y/D/H	DL
1125 (1080) /24p	1920 x 1080	27.00	24.00	74.25	R/Y/D/H	DL
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	DL
1125 (1080) /30p	1920 x 1080	33.75	30.00	74.25	R/Y/D/H	DL
1125 (1080) /60p	1920 x 1080	67.50	60.00	148.50	R/Y/D/H	DL
1125 (1080) /50p	1920 x 1080	56.25	50.00	148.50	R/Y/D/H	DL
VESA400	640 x 400	31.47	70.09	25.18	R/Y/D/H	DL
	640 x 400	31.50	85.08	31.50	R/Y/D/H	DL
VGA	640 x 480	31.47	59.94	25.18	R/Y/D/H	DL
	640 x 480	35.00	66.67	30.24	R/Y/D/H	DL
	640 x 480	37.86	72.81	31.50	R/Y/D/H	DL
	640 x 480	37.50	75.00	31.50	R/Y/D/H	DL
SVGA	640 x 480	43.27	85.01	36.00	R/Y/D/H	DL
	800 x 600	35.16	56.25	36.00	R/Y/D/H	DL
	800 x 600	37.88	60.32	40.00	R/Y/D/H	DL
	800 x 600	48.08	72.19	50.00	R/Y/D/H	DL
MAC16	800 x 600	46.88	75.00	49.50	R/Y/D/H	DL
	800 x 600	53.67	85.06	56.25	R/Y/D/H	DL
	832 x 624	49.72	74.55	57.28	R/Y/D/H	DL
	852 x 480	31.47	59.94	34.24	D/H	DL
XGA	1024 x 768	39.55	50.00	51.89	D/H	DL
	1024 x 768	48.36	60.00	65.00	R/Y/D/H	DL
	1024 x 768	56.48	70.07	75.00	R/Y/D/H	DL
	1024 x 768	60.02	75.03	78.75	R/Y/D/H	DL
	1024 x 768	65.55	81.63	86.00	R/Y/D/H	DL
	1024 x 768	68.68	85.00	94.50	R/Y/D/H	DL
WSVGA	1066 x 600	37.64	59.94	53.00	D/H	DL
MXGA	1152 x 864	53.70	60.00	81.62	D/H	DL
	1152 x 864	63.99	70.02	94.20	R/Y/D/H	DL
	1152 x 864	67.50	75.00	108.00	R/Y/D/H	DL
	1152 x 864	77.09	85.00	119.65	R/Y/D/H	DL
MAC21	1152 x 870	68.68	75.06	100.00	R/Y/D/H	DL
1280 x 720	1280 x 720	44.76	60.00	74.48	R/Y/D/H	DL
1280 x 768	1280 x 768	39.55	49.94	65.18	R/Y/D/H	DL
	1280 x 768	47.70	60.00	80.14	R/Y/D/H	DL
	1280 x 768	47.78	59.87	79.50	R/Y/D/H	DL
1280 x 800	1280 x 800	41.20	50.00	68.56	R/Y/D/H	DL
	1280 x 800	49.31	59.91	71.00	R/Y/D/H	DL
	1280 x 800	49.70	59.81	83.50	R/Y/D/H	DL
MSXGA	1280 x 960	60.00	60.00	108.00	R/Y/D/H	DL
	1280 x 960	85.94	85.00	148.50	R/Y	
SXGA	1280 x 1024	63.98	60.02	108.00	R/Y/D/H	DL
	1280 x 1024	79.98	75.02	135.00	R/Y/D/H	DL
	1280 x 1024	91.15	85.02	157.50	R/Y/D/H	DL
1360 x 768	1360 x 768	47.71	60.02	85.50	D/H	DL
	1360 x 768	47.70	60.00	84.72	D/H	DL
	1360 x 768	47.72	59.80	84.75	D/H	DL
1366 x 768	1366 x 768	39.55	50.00	69.92	D/H	DL
	1366 x 768	48.39	60.03	86.71	R/Y/D/H	DL
	1366 x 768	48.00	60.00	72.00	R/Y/D/H	DL
	1366 x 768	39.56	49.89	69.00	R/Y/D/H	DL
	1366 x 768	47.71	59.79	85.50	R/Y/D/H	DL
SXGA+	1400 x 1050	65.22	60.00	122.61	D/H	DL
	1400 x 1050	82.20	75.00	155.85	R/Y/D/H	DL
WXGA+	1440 x 900	55.47	59.90	88.75	R/Y/D/H	DL
	1440 x 900	55.92	60.00	106.47	R/Y/D/H	DL
1600 x 900	1600 x 900	46.30	50.00	97.05	D/H	DL
	1600 x 900	60.00	60.00	108.00	D/H	DL
	1600 x 900	55.99	59.95	118.25	D/H	DL
	1600 x 900	55.92	60.00	119.00	D/H	DL
WSXGA+	1680 x 1050	65.29	59.95	146.25	R/Y/D/H	DL
UXGA	1600 x 1200 <sup>*3</sup>	75.00	60.00	162.00	R/Y/D/H	DL
1920 x 1080	1920 x 1080 <sup>*4</sup>	66.59	59.93	138.50	R/Y/D/H	DL
	1920 x 1080	67.50	60.00	148.50	R/Y/D/H	DL
WUXGA	1920 x 1200 <sup>*3</sup>	74.04	59.95	154.00	R/Y/D/H	DL

● 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. \*3: Displayed with image elements thinned out in the image processing circuit.

\*2: Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

\*4: Based on VESA CVT-RB (Reduced Blanking) standard