



## 47-inch FULL HD LCD Display TH-47LF20E

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

#### ■ DISPLAY PANEL

Screen Size (Diagonal)	47-inch
Aspect ratio	16:9
Effective Display Area (W x H)	1039 x 584 mm
Number of pixels (H x V)	1920 x 1080 pixels
Brightness (Typ)	700 cd/m <sup>2</sup>
Contrast Ratio	1200:1
Response Time	9 ms (G to G)
Viewing Angle (Horizontal/Vertical)	178°/178°
Operating Life	50,000 hours

#### ■ CONNECTION TERMINAL

VIDEO IN	BNC x 1	1.0 V [p-p] (75Ω)
S-VIDEO IN	Mini DIN 4 pin x 1	Y: 1.0V [p-p] (75Ω), C: 0.286V [p-p] (75Ω)
AUDIO IN (VIDEO, S-VIDEO)	RCA (L/R) x 1 set	0.5 V [rms]
HDMI IN	HDMI TYPE A connector x 2	
COMPONENT/RGB IN	BNC x 3	Y/G : with sync 1.0 V [p-p] (75Ω) P <sub>B</sub> /B, P <sub>R</sub> /R : 0.7 V [p-p] (75Ω) R/B : 0.7 V [p-p] (75Ω)
AUDIO IN	RCA (L/R) x 1 set	0.5 V [rms]
DVI-D IN	DVI-D 24pin (HDCP compatible) x 1	
PC IN	MINI D-SUB 15PIN x1 (Female) Plug & Play (VESA DDC 2B)	Y/G : with sync 1.0 V [p-p] (75Ω) P <sub>B</sub> /B, P <sub>R</sub> /R : 0.7 V [p-p] (75Ω) HD/VD : 1.0~5.0 V [p-p] (high impedance)
AUDIO IN (DVI-D, PC)	M3 JACK x 1	0.5V [rms]
SERIAL	D-SUB 9PIN x 1 (Male) (EXTERNAL CONTROL TERMINAL), RS-232C COMPATIBLE	

#### ■ ELECTRICAL

Power Requirements	220-240 V AC, 50Hz/60Hz
Rated Power Consumption	290W
On Mode Average Power Consumption*	252 W
Power off condition	0.2W
Stand-by condition	0.2W

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

#### ■ AUDIO

Built-in Speakers	10W [5W + 5W] (10%THD)
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#### ■ MECHANICAL

Dimensions (WxHxD)	1079 x 624 x 101 mm
Bezel Width	18.6 mm
Carton Dimensions (WxHxD)	1210 x 770 x 240 mm
Weight	approx. 22.0 kg
Gross weight	approx. 27.0 kg
Cabinet Color	Black
VESA mount	400 x 400 mm (Installed by: M6 screws/ Screw hole depth 11.4 mm)

#### ■ ENVIRONMENTAL

Operating environment	Temperature	: 0 °C to 40 °C
	Humidity	: 20% to 80% (Non condensation)
Storage environment	Temperature	: -20°C to 60 °C
	Humidity	: 20% to 90% (Non condensation)

#### ■ STANDARD (CERTIFICATIONS)

SAFETY REGULATIONS	EN60065 Ver.7
RADIATION REGULATIONS	EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3

#### ■ REMOTE CONTROL TRANSMITTER

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

#### ■ INCLUDED ACCESSORIES

- AC cord - Operating instruction book - Remote control transmitter - Batteries - CD-ROM (operating instruction)
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**MAIN FEATURE**

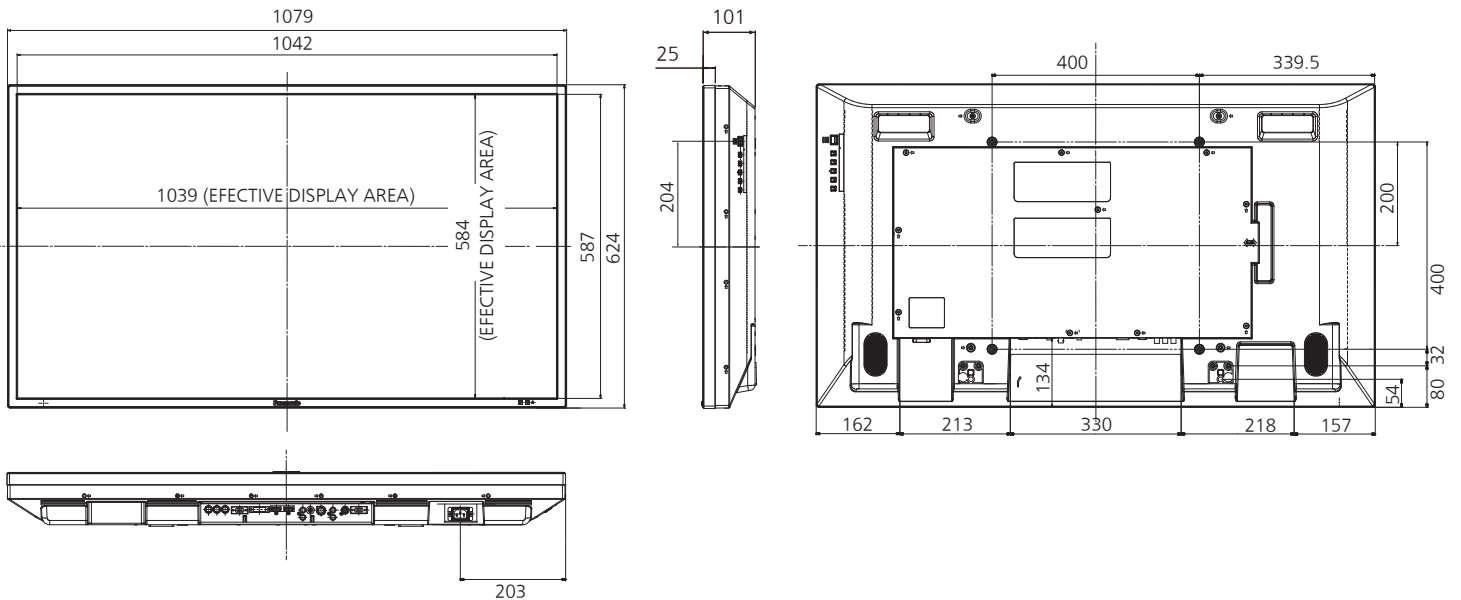
Multi-Screen System	2 x 2, 3 x 3, 4 x 4, 5 x 5 n x m (max 5 x 5)
Power-on Delay	Yes
Seam Hides Video Off Mode	Yes
Digital Zoom	x2, x3, x4
1:1 Pixel mode	Yes
Automatic Picture Position	Yes
Screen Saver	Yes
Power Management	Yes (PC and DVI input compatible)
Power Save Mode	Yes
Auto Power Off	Yes
Standby Power Save Mode	Yes
Brightness sensor	Yes
Input lock	Yes
Button lock	Yes
Maximum volume level	Yes
Remote user level	Yes

**OPTIONAL ACCESSORIES**

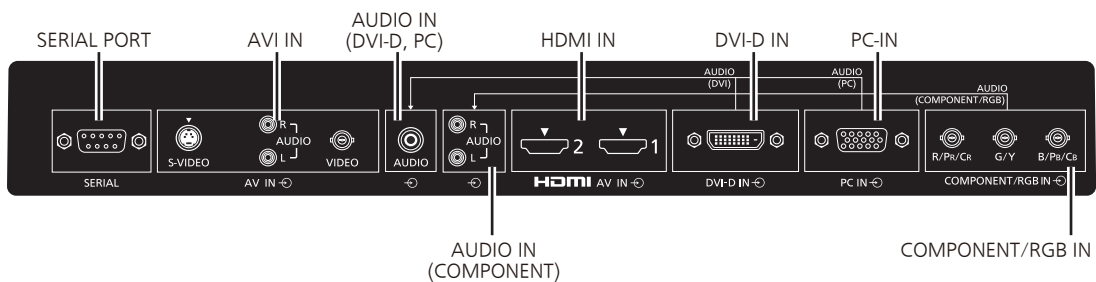
Pedestal	TY-STLF20
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**DIMENSIONS**

Cautions: This drawing is not a scale  
Units : mm



**CONNECTION TERMINAL**



● APPLICABLE INPUT SIGNALS

	Signal name	Horizontal frequency (kHz)	Vertical frequency (kHz)	VIDEO S-VIDEO	COMPONENT IN (Dotclock(MHz))	RGB IN (Dotclock(MHz))	PC IN (Dotclock(MHz))	DVI-D IN (Dotclock(MHz))	HDMI1 HDMI2
Video Signals	NTSC	15.73	59.94	Y					
	PAL	15.63	50.00	Y					
	PAL 60	15.73	59.94	Y					
	SECAM	15.63	50.00	Y					
	NTSC 4.43	15.73	59.94	Y					
	PAL M	15.73	59.94	Y					
Component Signals	PAL N	15.63	50.00	Y					
	525(480)/60i	15.73	59.94		Y (13.5)			Y (27.0)	
	525(480)/60p	31.47	59.94		Y (27.0)			Y (27.0)	Y
	625(575)/50i	15.63	50.00		Y (13.5)				
	625(576)/50i	15.63	50.00					Y (27.0)	Y
	625(575)/50p	31.25	50.00		Y (27.0)				Y
	625(576)/50p	31.25	50.00					Y (27.0)	Y
	750(720)/60p	45.00	60.00		Y (74.25)			Y (74.25)	Y
	750(720)/50p	37.50	50.00		Y (74.25)			Y (74.25)	Y
	1125(1080)/60p	67.50	60.00		Y (148.5)*1			Y (148.5)	Y
	1125(1080)/60i	33.75	60.00		Y (74.25)*1			Y (74.25)	Y
	1125(1080)/50p	56.25	50.00		Y (148.5)*1			Y (148.5)	Y
	1125(1080)/50i	28.13	50.00		Y (74.25)*1			Y (74.25)	Y
	1125(1080)/24sF	27.00	48.00		Y (74.25)*2				
	1125(1080)/30p	33.75	30.00		Y (74.25)*1			Y (74.25)	Y
	1125(1080)/25p	28.13	25.00		Y (74.25)*1			Y (74.25)	Y
	1125(1080)/24p	27.00	24.00		Y (74.25)*1			Y (74.25)	Y
	PC Signals	640x400@70Hz	31.46	70.07			Y (25.17)	Y (25.17)	Y (25.17)
640x400@85Hz		37.86	85.08			Y (31.5)	Y (31.5)	Y (31.5)	
640x480@60Hz		31.43	59.88			Y (25.15)	Y (25.15)	Y (25.15)	
640x480@60Hz		31.47	59.94			Y (25.18)	Y (25.18)	Y (25.18)	Y
640x480@67Hz		35.00	66.67			Y (30.24)	Y (30.24)	Y (30.24)	
640x480@72Hz		37.86	72.81			Y (31.5)	Y (31.5)	Y (31.5)	
640x480@75Hz		37.50	75.00			Y (31.5)	Y (31.5)	Y (31.5)	
640x480@85Hz		43.27	85.01			Y (36.0)	Y (36.0)	Y (36.0)	
720x400@70Hz		31.47	70.08			Y (28.32)	Y (28.32)	Y (28.32)	
800x600@55Hz		34.50	55.38			Y (35.33)	Y (35.33)	Y (35.33)	
800x600@56Hz		35.16	56.25			Y (36.0)	Y (36.0)	Y (36.0)	
800x600@60Hz		37.88	60.32			Y (40.0)	Y (40.0)	Y (40.0)	Y
800x600@60Hz		38.00	60.51			Y (40.13)	Y (40.13)	Y (40.13)	
800x600@72Hz		48.08	72.19			Y (50.0)	Y (50.0)	Y (50.0)	
800x600@75Hz		46.88	75.00			Y (49.5)	Y (49.5)	Y (49.5)	
800x600@85Hz		53.67	85.06			Y (56.25)	Y (56.25)	Y (56.25)	
852x480@60Hz		31.47	59.94			Y (33.54)	Y (33.54)	Y (34.24)	
1024x768@50Hz		39.55	50.00			Y (51.89)	Y (51.89)	Y (51.89)	
1024x768@60Hz		48.36	60.00			Y (65.0)	Y (65.0)	Y (65.0)	Y
1024x768@60Hz		48.50	60.02			Y (64.99)	Y (64.99)	Y (65.18)	
1024x768@70Hz		56.48	70.07			Y (75.0)	Y (75.0)	Y (75.0)	
1024x768@75Hz		60.24	74.93			Y (80.0)	Y (80.0)	Y (80.0)	
1024x768@75Hz		60.02	75.03			Y (78.75)	Y (78.75)	Y (78.75)	
1024x768@75Hz		61.01	75.70			Y (80.05)	Y (80.05)	Y (81.0)	
1024x768@85Hz		68.68	85.00			Y (94.5)	Y (94.5)	Y (94.5)	
1024x768@120Hz		97.55	119.99				Y (115.5)	Y (115.5)	
1066x600@60Hz		37.64	59.94			Y (53.0)	Y (53.0)	Y (53.0)	
1152x864@60Hz		53.70	60.00			Y (81.62)	Y (81.62)	Y (81.62)	
1152x864@75Hz		67.50	75.00			Y (108.0)	Y (108.0)	Y (108.0)	
1152x900@65Hz		61.20	65.20			Y (92.0)	Y (92.0)	Y (92.0)	
1152x900@66Hz		61.85	66.00			Y (94.5)	Y (94.5)	Y (94.5)	
1152x900@75Hz		71.40	75.60			Y (105.1)	Y (105.1)	Y (105.1)	
1280x768@60Hz		47.78	59.87			Y (79.50)	Y (79.50)	Y (79.50)	
1280x800@50Hz		41.20	50.00			Y (68.55)	Y (68.55)	Y (68.55)	
1280x960@60Hz		60.00	60.00			Y (108.0)	Y (108.0)	Y (108.0)	
1280x960@85Hz		85.94	85.00			Y (148.5)	Y (148.5)	Y (148.5)	
1280x1024@50Hz		52.70	50.00			Y (89.38)	Y (89.38)	Y (89.38)	
1280x1024@60Hz		63.34	59.98			Y (108.18)	Y (108.18)	Y (108.18)	
1280x1024@60Hz		63.90	60.00			Y (107.35)	Y (107.35)	Y (107.35)	
1280x1024@60Hz		63.37	60.01			Y (107.5)	Y (107.5)	Y (107.5)	
1280x1024@60Hz		63.74	60.02			Y (108.1)	Y (108.1)	Y (108.1)	
1280x1024@60Hz		63.98	60.02			Y (108.0)	Y (108.0)	Y (108.0)	Y
1280x1024@60Hz	63.79	60.18			Y (108.19)	Y (108.19)	Y (108.19)		
1280x1024@66Hz	70.66	66.47			Y (119.84)	Y (119.84)	Y (119.84)		
1280x1024@75Hz	79.98	75.02			Y (135.0)	Y (135.0)	Y (135.0)		
1280x1024@76Hz	81.13	76.11			Y (135.0)	Y (135.0)	Y (135.0)		
1280x1024@85Hz	91.15	85.02				Y (157.5)	Y (157.5)		
1360x768@60Hz	47.71	60.02			Y (85.5)	Y (85.5)	Y (85.5)		
1366x768@50Hz	39.55	50.00			Y (69.92)	Y (69.92)	Y (69.92)		
1366x768@60Hz	48.36	60.00			Y (86.71)	Y (86.71)	Y (87.44)		
1400x1050@60Hz	65.12	59.91			Y (121.38)	Y (121.38)	Y (122.43)		
1400x1050@60Hz	65.32	59.98			Y (121.75)	Y (121.75)	Y (121.75)		
1400x1050@60Hz	65.35	60.12			Y (121.81)	Y (121.81)	Y (121.85)		
1400x1050@75Hz	82.28	74.87			Y (156.0)	Y (156.0)	Y (156.0)		
1600x1200@60Hz	75.00	60.00			Y (162.0)	Y (162.0)	Y (162.0)		
1920x1080@60Hz	67.50	60.00			Y (148.5)	Y (148.5)	Y (148.5)		
1920x1200@60Hz	74.04	59.95				Y (154.0)	Y (154.0)		
Macintosh13"(640x480)	35.00	66.67			Y (30.24)	Y (30.24)	Y (30.24)		
MacintoshLC13"(640x480)	34.97	66.60			Y (31.33)	Y (31.33)	Y (31.33)		
Macintosh16"(832x624)	49.72	74.55			Y (57.28)	Y (57.28)	Y (57.28)		
Macintosh19"(1024x768)	60.24	75.08			Y (80.0)	Y (80.0)	Y (80.0)		
Macintosh21"(1152x870)	68.68	75.06			Y (100.0)	Y (100.0)	Y (100.0)		
Macintosh II(1280x1024)	80.00	75.00			Y (134.4)	Y (134.4)	Y (135.2)		

\*1:Based on SMPTE 274M standard.  
\*2:Based on SMPTE RP211 standard.