Panasonic

42-inch Class FULL HD LCD Display

TH-42LF30U

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

■DISPLAY PANEL

Screen Size (Diagonal)	42.0-inch (1067 mm)
Aspect ratio	16:9
Effective Display Area (W x H)	36.6" x 20.6" (930 x 523 mm)
Number of pixels (H x V)	1920 x 1080 pixels
Brightness (Typ)	700 cd/㎡
Contrast Ratio	1200:1
Response Time	9 ms (G to G)
Viewing Angle (Horizontal/Vertical)	178˚/178˚
Operating Life	approx. 50,000 hours*

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

■CONNECTION TERMINAL

VIDEO IN	BNC x 1	1.0 Vp-p (75Ω)
AUDIO IN (L/R)	RCA Pin jack x 1 set	0.5 Vrms
COMPONENT/RGB IN	BNC x 3	G/Y : with sync 1.0 Vp-p (75Ω) B/P_B/C_B : 0.7 Vp-p (75Ω) R/P_R/C_R : 0.7 Vp-p (75Ω)
AUDIO IN (L/R)	RCA Pin jack x 1 set	0.5 Vrms
HDMI IN	HDMI TYPE A x 2	
DVI-D IN	DVI-D 24 Pin x 1 Content Protection	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1
AUDIO IN (L/R)	Stereo mini jack (M3) × 1	0.5 Vrms (Shared with PC IN)
DVI-D OUT	DVI-D 24pin x 1	Compliance with DVI Revision 1.0
PC IN	Mini D-sub 15 Pin x1 Plug & Play (VESA DDC 2B)	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)	Stereo mini jack (M3) × 1	0.5 Vrms (Shared with DVI-D IN)
SLOT2.0	Yes	
SERIAL	D-SUB 9 pin x 1 (SERIAL IN)/D-SUB 9 pin x 1 (SERIAL OUT) RS-232C Compatible	

■ELECTRICAL

Power Requirements	110-127V AC, 50Hz/60Hz
Rated Power Consumption	300W
On Mode Average Power Consumption*	approx. 199W
Power off condition	0.3W
Stand-by condition	0.5W

*Based on IEC 62087 Ed.2 measurement method.

■AUDIO

Built-in Speakers	8Ω, 10W [5W + 5W] (10%THD)

■MECHANICAL

Dimensions (W x H x D)	38.2" x 22.1" x 4.6" (968 x 561 x 116 mm)
Carton Dimensions (W x H x D)	43.4" x 27.9" x 8.9" (1101 x 707 x 224 mm)
Weight	approx. 46.3 lbs. (21.0 kg)
Gross weight	approx. 57.4 lbs. (26.0 kg)
Bezel Width	0.72" (18.3 mm)
Cabinet Material / Color	Plastic / Black
VESA mount	VESA 15.8" x 15.8" (400 x 400 mm)

■ENVIRONMENTAL

Operating environment	Temperature	: 32˚F to 104˚F (0℃ to 40℃)
	Humidity	: 20% to 80% (Non condensation)
Storage environment	Temperature	: -4˚F to 140˚F (-20℃ to 60℃)*
	Humidity	: 20% to 90% (Non condensation)

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

■STANDARD (CERTIFICATIONS)

SAFETY REGULATIONS	UL60065, CAN/CSA-22.2No60065:03
RADIATION REGULATIONS	FCC Part 15 Class-B, ICES-003
Energy Star Displays 5.1	Yes

■REMOTE CONTROL TRANSMITTER

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

■INCLUDED ACCESSORIES

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

UPC Code	885170055872

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MAIN FEATURE

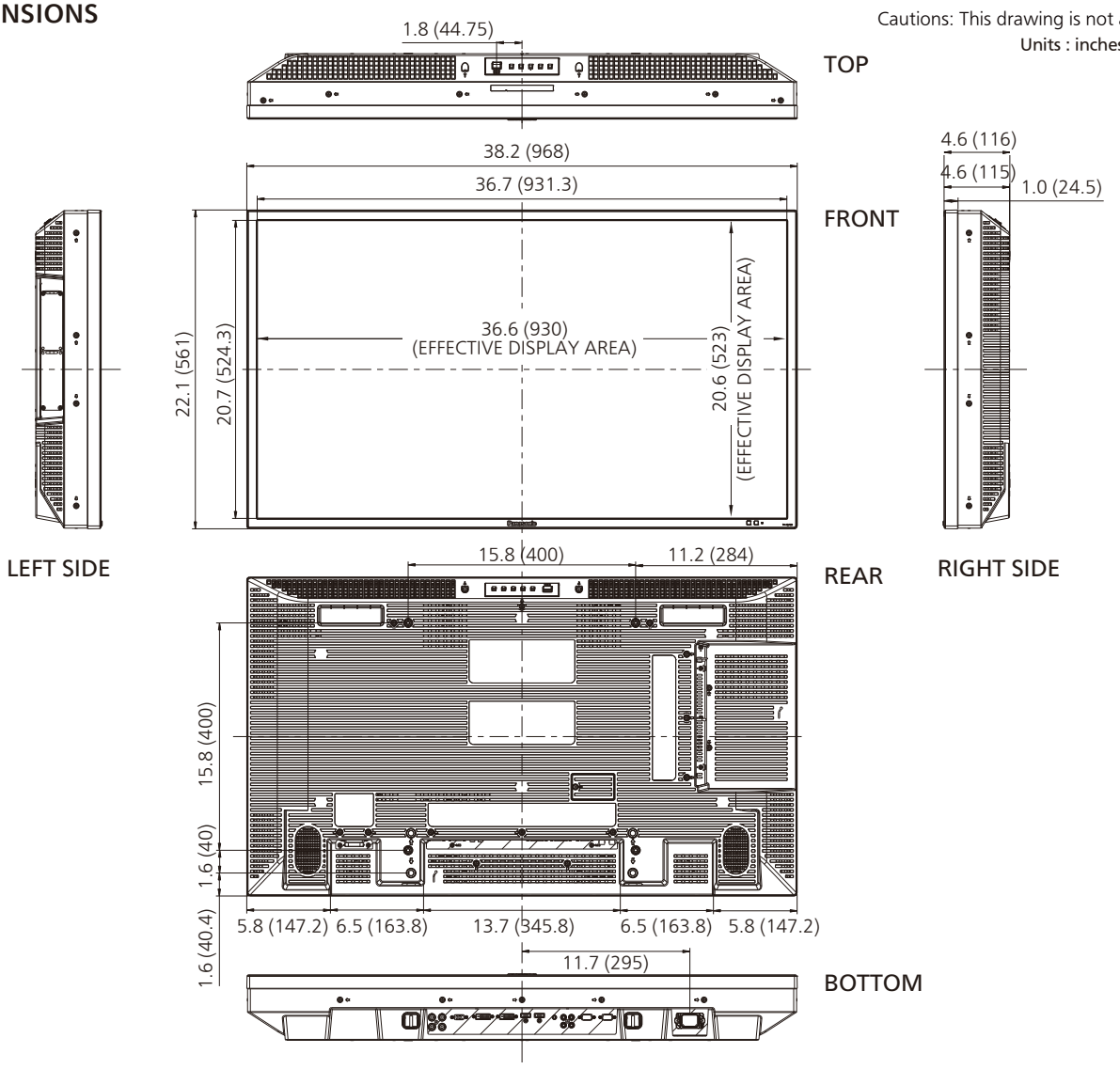
Digital Zoom	Yes (x1～x4)
Video Wall	Yes (N x M, up to 5 x 5)
Power-on Screen Delay	Yes
Seam Hides Video Off Mode	Yes
Daisy Chain	Yes
1:1 Pixel mode	Yes
Automatic Picture Position	Yes
Screen Saver	Yes
No signal power off	Yes
PC Power Management	Yes
DVI-D Power Management	Yes
ECO mode	Yes
Input lock	Yes
Button lock	Yes
Remote-control User Level	Yes
Failover input	Yes
Orientation	Landscape / Portrait

OPTIONAL ACCESSORIES

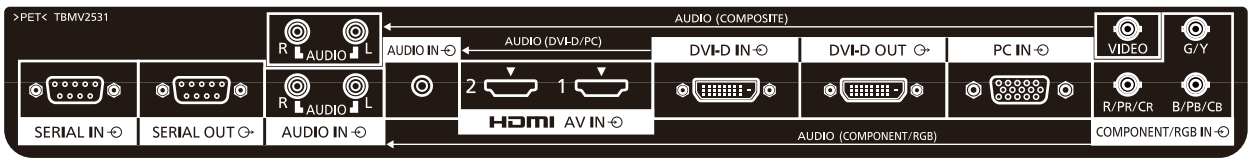
Pedestal	TY-ST20-K
HD-SDI Terminal Board	TY-FB10HD

DIMENSIONS

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



CONNECTION TERMINAL



APPLICABLE INPUT SIGNALS

	Signal name	Horizontal frequency (kHz)	Vertical frequency (kHz)	VIDEO IN	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					
	PAL60	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					
	PAL N	15.63	50.00	Y					
Component Signals	525(480)/60i	15.73	59.94		Y (13.5)			Y (27.0)	Y
	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)				
	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)	Y
	1024x768@50Hz	39.55	50.00			Y (51.89)	Y (51.89)	Y (51.89)	Y
	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)	Y
	1152x864@60Hz	53.70	60.00			Y (81.62)	Y (81.62)	Y (81.62)	Y
	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)	Y
	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)	Y
	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)	Y
	1920x1080@60Hz	67.50	60.00			Y (148.5)	Y (148.5)	Y (148.5)	Y
	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.

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