

55-inch Class Ultra Narrow Bezel LCD Display

TH-55VF2HW

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

■ DISPLAY PANEL

Screen Size (Diagonal)	54.6-inch (1387 mm)
Panel Type / Backlight	IPS / Direct LED
Aspect ratio	16:9
Effective Display Area (W x H)	1209.6 x 680.3 mm / 47.6" x 26.7"
Resolution (H x V)	1920 x 1080
Brightness (typ)	700 cd/m ²
Contrast Ratio (typ)	1100:1
Dynamic Contrast Ratio	500000:1
Max. Display Colors	approx. 1.07 Billion
Viewing Angle (Horizontal / Vertical)	178° / 178° (CR ≥ 10)
Response Time (typ)	9.0 ms (G to G)
Panel Life (typ) ¹	approx. 60000 hours
Panel Surface Treatment	Advanced Anti-glare type (Haze 28%)

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 1	Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)
DVI-D IN	DVI-D 24-pin x 2	Compliance with DVI Revision 1.0 Compatible with HDCP 1.3
PC IN	Mini D-Sub 15-pin x 1 (Female)	Y/G : with sync 1.0 V [p-p] (75 Ω) : without sync 0.7 V [p-p] (75 Ω) P _B /C _B /B : without sync 0.7 V [p-p] (75 Ω) P _R /C _R /R : without sync 0.7 V [p-p] (75 Ω) HD/VD : 1.0 - 5.0 V [p-p] (high impedance)
Display Port IN	DisplayPort (DP1.1 Dual Mode Only) x 1	Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)
AUDIO 1 IN	Stereo Mini Jack (M3) x 1	0.5 V [rms]
AUDIO 2 IN	L/R:Pin Jack x 1 set	0.5 V [rms]
SERIAL IN / OUT	D-sub 9pin x 1 / x 1, RS-232C Compatible	
DIGITAL LINK IN	RJ45 x 1, Long Reach Mode (Shared with LAN IN)	
DIGITAL LINK OUT	RJ45 x 1 (Shared with LAN OUT)	
LAN IN / OUT	RJ45 x 1 / x 1, 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)	
IR IN / OUT	Stereo Mini Jack (M3) x 1 / x 1	
AUDIO OUT	L/R Pin Jack x1 set Variable (-∞ - 0 dB) (1 kHz 0 dB Input, 10 k Ω Load)	0.5 V [rms]
USB	USB 2.0 Type A connector x 1 DC 5 V / 500 mA (USB3.0 is not supported.)	

■ AUDIO

Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)
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■ ELECTRICAL

Power Requirements	AC 110 - 127 V 50Hz/60Hz AC 220 - 240 V, 50 Hz/60 Hz
Power Consumption	300 W
On Mode Average Power Consumption ¹	165 W
Power Off Condition	approx. 0 W
Stand-by Condition	approx. 0.5 W
Apparent power	312 W

¹ Based on IEC 62087 Ed.2 measurement method

■ MECHANICAL

Dimension (W x H x D)	1210.6 x 681.3 x 97.3 mm / 47.658" x 26.820" x 3.829"
Weight	approx. 23.0 kg / approx. 50.7 lbs
Carton Dimensions (W x H x D)	1395 x 848 x 280 mm / 55.0" x 33.4" x 11.1"
Gross Weight	34 kg / 75.0 lbs
Cabinet Material / Color	Metal / Black
Bezel Width	T / B / R / L 0.44 mm / 0.018"
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm / 15.8" x 15.8" (Installed by: M6 screws / Screw hole depth 12 mm / 0.47")

■ INSTALLATION

Orientation	Landscape / Portrait
Tilting Angle	Landscape : 0 - 0 degrees forward / backward Portrait : 0 - 0 degrees forward / backward

List of correspondence signals

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

R: D-sub RGB (PC IN)
Y: YCbCr/YPbPr (PC IN)
D: DVI-D (DVI-D IN1, DVI-D IN2)

H: HDMI (HDMI)
DP: DisplayPort (DisplayPort)
DL: DIGITAL LINK (DIGITAL LINK)

Correspondence signal	Resolution (dot)	Scan rate		Dot clock rate (MHz)	Format
		Horizontal (kHz)	Vertical (Hz)		
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 480i ²	15.73	59.94	27.00	D/H/DP/DL
625i (576i)	720 (1440) x 576i ²	15.63	50.00	27.00	D/H/DP/DL
525p (480p)	720 x 480	31.47	59.94	27.00	R/Y/D/H/DP/DL
625p (576p)	720 x 576	31.25	50.00	27.00	R/Y/D/H/DP/DL
750 (720) /60p	1280 x 720	45.00	60.00	74.25	R/Y/D/H/DP/DL
750 (720) /50p	1280 x 720	37.50	50.00	74.25	R/Y/D/H/DP/DL
1125 (1080) /60i ¹	1920 x 1080i	33.75	60.00	74.25	R/Y/D/H/DP/DL
1125 (1080) /50i	1920 x 1080i	28.13	50.00	74.25	R/Y/D/H/DP/DL
1125 (1080) /24p	1920 x 1080	27.00	24.00	74.25	R/Y/D/H/DP/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/DP/DL
1125 (1080) /30p	1920 x 1080	33.75	30.00	74.25	R/Y/D/H/DP/DL
1125 (1080) /60p	1920 x 1080	67.50	60.00	148.50	R/Y/D/H/DP/DL
1125 (1080) /50p	1920 x 1080	56.25	50.00	148.50	R/Y/D/H/DP/DL
640 x 400	640 x 400	31.47	70.09	25.18	R/Y/D/H/DP/DL
	640 x 400	37.86	85.08	31.50	R/Y/D/H/DP/DL
	640 x 480	31.47	59.94	25.18	R/Y/D/H/DP/DL
640 x 480	640 x 480	35.00	66.67	30.24	R/Y/D/H/DP/DL
	640 x 480	37.86	72.81	31.50	R/Y/D/H/DP/DL
	640 x 480	37.50	75.00	31.50	R/Y/D/H/DP/DL
	640 x 480	43.27	85.01	36.00	R/Y/D/H/DP/DL
	800 x 600	35.16	56.25	36.00	R/Y/D/H/DP/DL
800 x 600	800 x 600	37.88	60.32	40.00	R/Y/D/H/DP/DL
	800 x 600	48.08	72.19	50.00	R/Y/D/H/DP/DL
	800 x 600	46.88	75.00	49.50	R/Y/D/H/DP/DL
	800 x 600	53.67	85.06	56.25	R/Y/D/H/DP/DL
	832 x 624	49.72	74.55	57.28	R/Y/D/H/DP/DL
832 x 624	832 x 624	49.72	74.55	57.28	R/Y/D/H/DP/DL
852 x 480	852 x 480	31.47	59.94	34.24	D/H/DP/DL
1024 x 768	1024 x 768	39.55	50.00	51.89	D/H/DP/DL
	1024 x 768	48.36	60.00	65.00	R/Y/D/H/DP/DL
	1024 x 768	56.48	70.07	75.00	R/Y/D/H/DP/DL
	1024 x 768	60.02	75.03	78.75	R/Y/D/H/DP/DL
	1024 x 768	65.55	81.63	86.00	R/Y/D/H/DP/DL
	1024 x 768	68.68	85.00	94.50	R/Y/D/H/DP/DL
1066 x 600	1066 x 600	37.64	59.94	53.00	D/H/DP/DL
1152 x 864	1152 x 864	53.70	60.00	81.62	D/H/DP/DL
	1152 x 864	63.99	70.02	94.20	R/Y/D/H/DP/DL
	1152 x 864	67.50	75.00	108.00	R/Y/D/H/DP/DL
	1152 x 864	77.09	85.00	119.65	R/Y/D/H/DP/DL
1152 x 870	1152 x 870	68.68	75.06	100.00	R/Y/D/H/DP/DL
1280 x 720	1280 x 720	44.76	60.00	74.48	R/Y/D/H/DP/DL
1280 x 768	1280 x 768	39.55	49.94	65.18	R/Y/D/H/DP/DL
	1280 x 768	47.70	60.00	80.14	R/Y/D/H/DP/DL
	1280 x 768	47.78	59.87	79.50	R/Y/D/H/DP/DL
1280 x 800	1280 x 800	41.20	50.00	68.56	R/Y/D/H/DP/DL
	1280 x 800	49.31	59.91	71.00	R/Y/D/H/DP/DL
	1280 x 800	49.70	59.81	83.50	R/Y/D/H/DP/DL
1280 x 960	1280 x 960	60.00	60.00	108.00	R/Y/D/H/DP/DL
	1280 x 960	85.94	85.00	148.50	R/Y
1280 x 1024	1280 x 1024	63.98	60.02	108.00	R/Y/D/H/DP/DL
	1280 x 1024	79.98	75.02	135.00	R/Y/D/H/DP/DL
	1280 x 1024	91.15	85.02	157.50	R/Y/D/H/DP/DL
1360 x 768	1360 x 768	47.71	60.02	85.50	D/H/DP/DL
	1360 x 768	47.70	60.00	84.72	D/H/DP/DL
	1360 x 768	47.72	59.80	84.75	D/H/DP/DL
1366 x 768	1366 x 768	39.55	50.00	69.92	D/H/DP/DL
	1366 x 768	48.39	60.03	86.71	R/Y/D/H/DP/DL
	1366 x 768	48.00	60.00	72.00	R/Y/D/H/DP/DL
	1366 x 768	39.56	49.89	69.00	R/Y/D/H/DP/DL
	1366 x 768	47.71	59.79	85.50	R/Y/D/H/DP/DL
1400 x 1050	1400 x 1050	65.22	60.00	122.61	D/H/DP/DL
	1400 x 1050	82.20	75.00	155.85	R/Y/D/H/DP/DL
1440 x 900	1440 x 900	55.47	59.90	88.75	R/Y/D/H/DP/DL
	1440 x 900	55.92	60.00	106.47	R/Y/D/H/DP/DL
1600 x 900	1600 x 900	46.30	50.00	97.05	D/H/DP/DL
	1600 x 900	60.00	60.00	108.00	D/H/DP/DL
	1600 x 900	55.99	59.95	118.25	D/H/DP/DL
	1600 x 900	55.92	60.00	119.00	D/H/DP/DL
1680 x 1050	1680 x 1050	65.29	59.95	146.25	R/Y/D/H/DP/DL
1600 x 1200	1600 x 1200 ³	75.00	60.00	162.00	R/Y/D/H/DP/DL
1920 x 1080	1920 x 1080 ⁴	66.59	59.93	138.50	R/Y/D/H/DP/DL
	1920 x 1080	67.50	60.00	148.50	R/Y/D/H/DP/DL
1920 x 1200	1920 x 1200 ^{3, 5}	74.04	59.95	154.00	R/Y/D/H/DP/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.

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

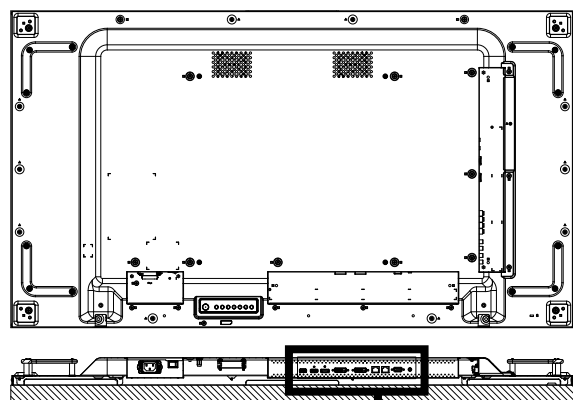
3: Displayed with image elements thinned out in the image processing circuit.

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

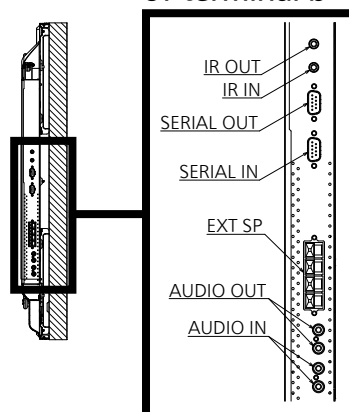
5: Not supported when "DIGITAL LINK mode" is set to "Long reach"

Drawing of terminals

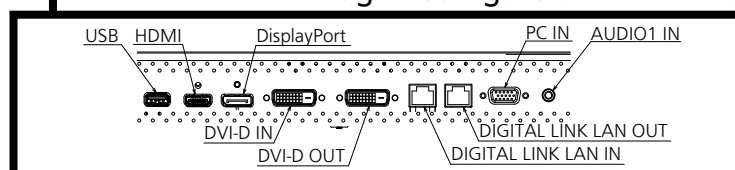
View from back



Magnified figure of terminal b

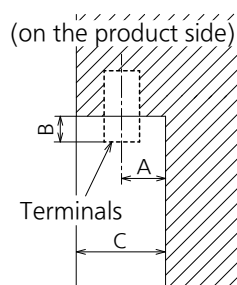


Magnified figure of terminal a



Sectional view of terminal a

(USB / HDMI / DisplayPort / DVI-D IN / DVI-D OUT / DIGITAL LINK LAN IN / DIGITAL LINK LAN OUT / PC IN / AUDIO1 IN)



Terminal a

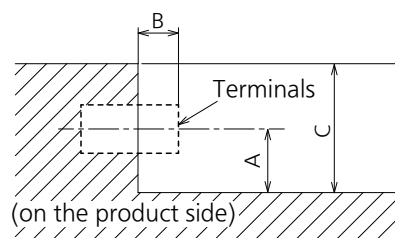
55VF2HW Terminal (Bottom)

Units : mm (inch)

	USB	HDMI	DisplayPort	DVI-D	DIGITAL LINK LAN	PC IN	AUDIO1 IN
A	15.0 (0.59)	14.4 (0.57)	14.4 (0.57)	16.0 (0.63)	16.0 (0.63)	17.2 (0.68)	17.5 (0.69)
B	-	-	-	5.5 (0.22)	-	5.1 (0.2)	2.5 (0.1)
C	42.9 (1.69)						

Sectional view of terminal b

(IR OUT / IR IN / SERIAL IN / SERIAL OUT / AUDIO IN / AUDIO OUT)



Terminal b

55VF2HW Terminal (Side)

Units : mm (inch)

	IR	SERIAL	AUDIO
A	15.5 (0.61)	15.2 (0.6)	11.9 (0.47)
B	2.0 (0.08)	4.5 (0.18)	8.5 (0.33)
C	37.9 (1.49)		

1 Due to the construction of terminal, some types of connecting cable or USB memory device cannot be used.
Be sure to use connecting cable or USB memory device after confirmation in this drawing.