



98-inch 4K UHD LCD Display TH-98LQ70W

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

DISPLAY

Screen Size (Diagonal)	98-inch (2476.9 mm)
Panel Type	IPS / Direct-LED
Aspect Ratio	16:9
Effective Display Area (W x H)	2159 x 1214 mm
Number of Pixels (H x V)	3840 x 2160 pixels
Brightness	500 cd/m ²
Contrast Ratio	1300 : 1
Dynamic Contrast Ratio	500000 : 1
Response Time	8 ms (G to G)
Viewing Angle (Horizontal / Vertical)	178° / 178°
Panel Life Time	approx. 50000 hours (typ)*

*When the panel lifetime is at 50% of the brightness under the condition of 25 degrees Celsius (+/- 2 degrees Celsius).
Panel lifetime may be shortened due to usage environment.

CONNECTION TERMINAL

HDMI IN	HDMI TYPE A Connector x2 (Up to 4K@50/60Hz)* ¹ HDMI TYPE A Connector x2 (Up to 2K@50/60Hz)* ¹
DisplayPort IN	DisplayPort x 1 (DP1.2a)* ¹
DVI-D IN	DVI-D 24pin x 1
AUDIO IN (L/R)	Stereo mini jack (M3) x 1set (shared with PC IN)
PC IN	Mini D-sub 15pin x 1 (Female)* ²
AUDIO IN (L/R)	Stereo mini jack (M3) x 1set (shared with DVI-D IN)
Function Slot	SLOT NX x 2 * ³ (Vacant)

*¹ : HDCP supported, Embedded audio supported

*² : RGB / YPbPr switchable

*³ : Option 3G-SDI terminal board TY-TBN03G: (w/ active through)

CONTROL

SERIAL IN	D-sub 9pin x 1* ¹
LAN	RJ45 x 1 100BASE-TX* ²
DIGITAL LINK	RJ45 x 1 100BASE-TX (Shared with LAN)

*¹ : RS-232C compatible

*² : PLink compatible (shared with DIGITAL LINK)

AUDIO

AUDIO OUT	Stereo mini jack (M3) x 1
Built in Speaker	20W [10W + 10W] (10%THD)

ELECTRICAL

Power Requirements	220-240 V AC, 50/60Hz
Power Consumption	620 W (653 VA) 2116 BTU
On Mode Average Power Consumption*	480 W
Power Off Condition	0.3 W
Stand-by Condition	0.5 W
Network Stand-by Mode	3 W

*Based on IEC 62087 Ed.2 measurement method

MECHANICAL

Dimensions (W x H x D)	2233 x 1288 x 122 mm
Bezel Width	32.5 mm
Carton Dimensions (W x H x D)	2406 x 1520 x 460 mm
Weight	approx. 136 kg
Gross Weight	approx. 161 kg
Cabinet Material / Color	Metal / Black
Protective Glass	YES
Mount Screw Holes	Diameter: M16, Valid screw depth: 26 mm
ibolt Screw Holes	Diameter: M12, Valid screw depth: 25 mm

INSTALLATION REQUIREMENT

Orientation	Landscape / Portrait
Tilting Angle	0-10 degrees forward with landscape 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% (Non condensation)
	Altitude	: 0 to 2400 m* ³
Storage Environment	Temperature	: -20°C to 60°C
	Humidity	: 20% to 80% (Non condensation)

*¹ : for up to 1400 m altitude

*² : for between 1400 m and 2400 m altitude

*³ : When using the unit where it is 1400 m and higher and below 2400 m above sea level, make sure [High altitude mode] is set to [ON].

MAIN FEATURE

Automatic Picture Position	YES
4 Input Multi Display (up to FHD)	YES
Screen Saver	YES
PC Power Management	YES
HDMI Power Management	YES
DVI-D Power Management	YES
ECO Mode	YES
Button Lock	YES
Remote-control Lock	YES
Power-on Screen Delay	YES
Input Search	YES
Local Dimming	YES

STANDARD (CERTIFICATIONS)

Safety Regulations	Europe : EN60065, IEC60065, EAC Asia : AS / NZS60065, SASO, IEC60065 / SS, IEC60065 / PAI
Radiation Regulations	Europe : EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3 Asia : CISPR22 Class-B

INCLUDED ACCESSORIES

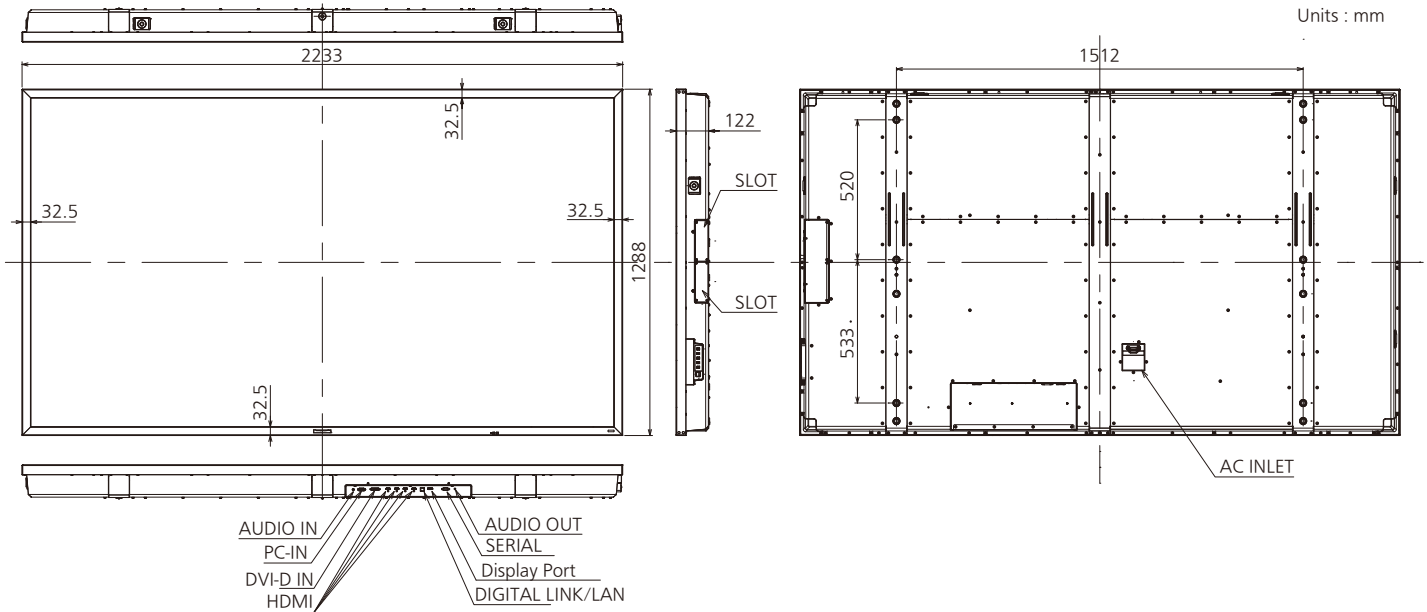
AC power cord (approx. 3 m), Operating Instructions (Book), (CD-ROM), Remote Control Transmitter, Batteries x 2, Clamper, Eyebolt cap, Eyebolt, Panasonic badge, Panasonic badge attachment plate, Allen wrench

OPTIONAL ACCESSORIES

3G-SDI option board	TY-TBN03G*1
Pedestal	TY-ST103PF9
Wall-hanging Bracket	TY-WK103PV9
Celling-hanging Bracket	TY-CE103PS10*2
Digital Interface Box	ET-YFB100G

*1: 2 boards (total 3G-SDI x 4) required for 4K@50/60Hz,
1 board (total 3G-SDI x 2) required for up to 4K@25/30Hz
*2: Tilt angle limited to 10 degree maximum

DIMENSIONS



CONNECTION TERMINAL



* Specifications and appearance are subject to change without notice.

● Preset Signals

Following signal timing is preset to this unit.

These preset signals are written on EDID of the each input terminal.(Except for *6)

In many cases, it is possible to receive the signals other than below with this unit's multi scan function.
(Except for 4K signal)

✓ : Preset signal

Signal name	H-Freq. (kHz)	V-Freq. (Hz)	Dot clock frequency (MHz)	PC IN	HDMI 1 HDMI 2	HDMI 3 HDMI 4 DVI-D IN	DIGITAL LINK	Display Port
525 (480) / 60i	15.73	59.94	13.5	✓				
625 (576) / 50i	15.63	50.00	13.5	✓				
525 (480) / 60i*2	15.75	60.00	27.0		✓	✓	✓	
625 (576) / 50i	15.63	50.00	27.0		✓	✓	✓	
525 (480) / 60p*2	31.50	60.00	27.0	✓	✓	✓	✓	
625 (576) / 50p	31.25	50.00	27.0	✓	✓	✓	✓	
750 (720) / 60p*2	45.00	60.00	74.25	✓	✓	✓	✓	✓
750 (720) / 50p	37.50	50.00	74.25	✓	✓	✓	✓	✓
1 125 (1080) / 60i*1*2	33.75	60.00	74.25	✓	✓	✓	✓	
1 125 (1080) / 50i*1	28.13	50.00	74.25	✓	✓	✓	✓	
1 125 (1080) / 24p*1*2	27.00	24.00	74.25	✓	✓	✓	✓	
1 125 (1080) / 25p*1	28.13	25.00	74.25	✓	✓	✓	✓	
1 125 (1080) / 30p*1*2	33.75	30.00	74.25	✓	✓	✓	✓	
1 125 (1080) / 60p*1*2	67.50	60.00	148.5	✓	✓	✓	✓	✓
1 125 (1080) / 50p*1	56.25	50.00	148.5	✓	✓	✓	✓	✓
640 × 480	31.47	59.94	25.18	✓	✓	✓	✓	✓
800 × 600	37.88	60.32	40.00	✓	✓	✓	✓	✓
1 024 × 768	48.36	60.00	65.00	✓	✓	✓	✓	✓
1 280 × 768	47.70	60.00	80.14	✓	✓*6	✓	✓	✓
1 366 × 768	48.39	60.04	86.71	✓	✓*6	✓	✓	✓
1 280 × 1 024	63.98	60.02	108.0	✓	✓	✓	✓	✓
1 600 × 900	60.00	60.00	108.0	✓	✓	✓	✓	✓
1 920 × 1 080	67.50	60.00	148.5	✓	✓	✓	✓	✓
1 920 × 1 200	74.04	59.95	154.0	✓	✓	✓	✓	✓
4K signal								
3 840 / 24p*2	54.00	24.00	297.0		✓		✓	✓
3 840 / 25p	56.25	25.00	297.0		✓		✓	✓
3 840 / 30p*2	67.50	30.00	297.0		✓		✓	✓
4 096 / 24p*2	54.00	24.00	297.0		✓		✓	
3 840 / 50p	112.5	50.00	594.0		✓		✓*4	✓*5
3 840 / 60p*2	135.0	60.00	594.0		✓		✓*4	✓*5
4 096 / 50p	112.5	50.00	594.0		✓		✓*4	
4 096 / 60p*2	135.0	60.00	594.0		✓		✓*4	
4K (Dual Link)signal								
3 840 / 50p	112.5	50.00	297.0		✓*3			
3 840 / 60p*2	135.0	60.00	297.0		✓*3			
4 096 / 50p	112.5	50.00	297.0		✓*3*6			
4 096 / 60p*2	135.0	60.00	297.0		✓*3*6			

*1: Based on SMPTE 274M standard.

*2: Compatible with frame frequency 1/1.001

*3: The format supports Dual Link.(see page 17)

*4: Supported in YC_BC_R 4:2:0 format

*5: Supported with MST(Multi Stream Transport)only

*6: Not written on EDID

In some cases, these signals may not be displayed when setting Resolution on your PC.

Note

- Signals without above specification may not be displayed properly.
- For the signals when 3G-SDI Terminal Board with Audio is installed, refer to the manual included with it.