Panasonic

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/㎡
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 x 4
	  HDMI 1*[1] / HDMI 2*[1] (Up to 4K@50/60Hz)
	  HDMI 3*[1] / HDMI 4*[2] (Up to 2K@50/60Hz)

DisplayPort IN	DisplayPort x 1 (DP1.2a)*[2]
DVI-D IN	DVI-D 24pin x 1*[3]
AUDIO IN (L/R)	Stereo mini jack (M3) x 1set (shared with PC IN)
PC IN	Mini D-sub 15pin x 1 (Female)*[4]
AUDIO IN (L/R)	Stereo mini jack (M3) x 1set (shared with DVI-D IN)
Function Slot	SLOT NX x 2*[5] (Vacant)

*1: HDCP1.4 supported, Embedded audio supported
*2: HDCP1.3 supported, Embedded audio supported
*3: Compliance with DVI Revision 1.0, HDCP1.1 supported
*4: RGB / YPbPr switchable
*5: 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: PJLink compatible (shared with DIGITAL LINK)

■ AUDIO

AUDIO OUT	Stereo mini jack (M3) x 1
Built in Speaker	20 W [10 W + 10 W] (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
Eyebolt Screw Holes	Diameter: M12, Valid screw depth: 25 mm

■ INSTALLATION REQUIREMENT

Orientation	Landscape / Portrait
Tilting Angle	10 degrees with landscape setting / 5 degrees with portrait setting

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

■ ENVIRONMENTAL

Operating Environment	Temperature	: 0℃ to 40℃ *[1] : 0℃ to 35℃ *[2]
	Humidity	: 20% to 80% (Non condensation)
	Altitude	: 0 to 2400 m*[3]
Storage Environment	Temperature	: -20℃ to 60 ℃
	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
Operating Time*	24h/day

* 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 movie images.

⬤ OPTIONAL ACCESSORIES

3G-SDI Terminal 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
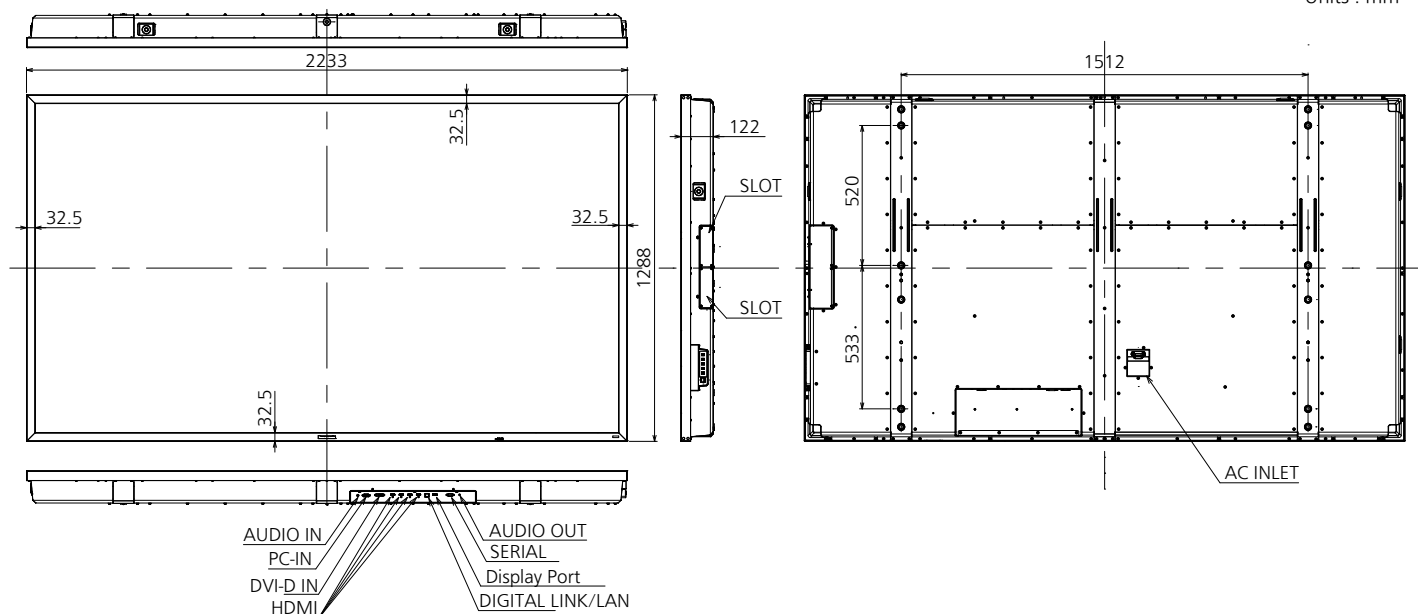*2: Tilt angle limited to 10 degree maximum

⬤ STANDARD (CERTIFICATIONS)

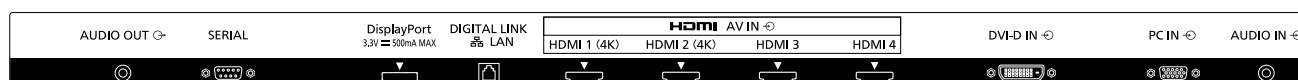|	
Safety Regulations	Europe : EN60065, IEC60065, EAC Asia : AS / NZS60065, SASO, IEC60065 / SS, IEC60065 / PAI
Radiation Regulations	Europe : EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3 Asia : CISPR22 Class-B

⬤ 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

⬤ DIMENSIONS

Cautions: This drawing is not a scale
Units : mm

⬤ 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 ferquency (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	✔	✔	✔	✔	✔
1125 (1080) / 60i*1*2	33.75	60.00	74.25	✔	✔	✔	✔	
1125 (1080) / 50i*1	28.13	50.00	74.25	✔	✔	✔	✔	
1125 (1080) / 24p*1*2	27.00	24.00	74.25	✔	✔	✔	✔	
1125 (1080) / 25p*1	28.13	25.00	74.25	✔	✔	✔	✔	
1125 (1080) / 30p*1*2	33.75	30.00	74.25	✔	✔	✔	✔	
1125 (1080) / 60p*1*2	67.50	60.00	148.5	✔	✔	✔	✔	✔
1125 (1080) / 50p*1	56.25	50.00	148.5	✔	✔	✔	✔	✔
640 x 480	31.47	59.94	25.18	✔	✔	✔	✔	✔
800 x 600	37.88	60.32	40.00	✔	✔	✔	✔	✔
1024 x 768	48.36	60.00	65.00	✔	✔	✔	✔	✔
1280 x 768	47.70	60.00	80.14	✔	✔*6	✔	✔	✔
1366 x 768	48.39	60.04	86.71	✔	✔*6	✔	✔	✔
1280 x 1024	63.98	60.02	108.0	✔	✔	✔	✔	✔
1600 x 900	60.00	60.00	108.0	✔	✔	✔	✔	✔
1920 x 1080	67.50	60.00	148.5	✔	✔	✔	✔	✔
1920 x 1200	74.04	59.95	154.0	✔	✔	✔	✔	✔
4K signal								
3840 / 24p*2	54.00	24.00	297.0		✔		✔	✔
3840 / 25p	56.25	25.00	297.0		✔		✔	✔
3840 / 30p*2	67.50	30.00	297.0		✔		✔	✔
4096 / 24p*2	54.00	24.00	297.0		✔		✔	
3840 / 50p	112.5	50.00	594.0		✔		✔*4	✔*5
3840 / 60p*2	135.0	60.00	594.0		✔		✔*4	✔*5
4096 / 50p	112.5	50.00	594.0		✔		✔*4	
4096 / 60p*2	135.0	60.00	594.0		✔		✔*4	
4K (Dual Link) signal								
3840 / 50p	112.5	50.00	297.0		✔*3			
3840 / 60p*2	135.0	60.00	297.0		✔*3			
4096 / 50p	112.5	50.00	297.0		✔*3*6			
4096 / 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.