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

## DISPLAY
- Screen Size (Diagonal): 84.0-inch (2134.6 mm)
- Panel Type: IPS / Edge-LED
- Aspect Ratio: 16:9
- Effective Display Area (W x H): 73.3” x 41.3” (1860 x 1047 mm)
- Number of Pixels (H x V): 3840 x 2160 pixels
- Brightness: 500 cd/㎡
- Contrast Ratio: 1400:1
- Dynamic Contrast Ratio: 500000 : 1
- Response Time: 12 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* / HDMI 2* (Up to 4K@50/60Hz)
  - HDMI 3* / HDMI 4* (Up to 2K@50/60Hz)
- DisplayPort IN: DisplayPort x 1
  - 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)* 3

\(^*1\): 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: 110-127 V, 50/60Hz
- Power Consumption: 560 W (574 VA)
- On Mode Average Power Consumption*: 420 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): 76.7” x 44.9” x 3.9” (1949 x 1141 x 99 mm)
- Bezel Width: 1.3” (32.5 mm)
- Carton Dimensions (W x H x D): 84.9” x 33.6” x 15.9” (2156 x 1361 x 404 mm)
- Weight: approx. 236.1 lbs (108 kg)
- Gross Weight: approx. 286.6 lbs (130 kg)
- Cabinet Material / Color: Metal / Black
- Protective Glass: Yes
- Mount Screw Holes: Diameter: M16, Valid screw depth: 1.1” (26 mm)
- Eyebolt Screw Holes: Diameter: M12, Valid screw depth: 1” (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: 32°F to 104°F (0°C to 40°C)* 1
  - Humidity: 20% to 80% (Non condensation)

\(^*1\): for up to 1400 m altitude
\(^*2\): for between 1400 m and 2400 m altitude

- Storage Environment:
  - Temperature: -4°F to 140°F (-20°C to 60°C)
  - Humidity: 20% to 80% (Non condensation)

Please confirm the unit where it is 4593 ft (1400 m) and higher and below 7874 ft (2400 m) above sea level, make sure [High altitude mode] is set to [ON].

UPC Code: 885170220119
**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*
- Pedestal: TY-ST85P12
- Mobile Stand: TY-ST85PB1
- Wall-hanging Bracket: TY-WK85PV12
- Ceiling-hanging Bracket: TY-CE85PS12**
- 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

**STANDARD (CERTIFICATIONS)**

- Safety Regulations: UL60065, CAN/CSA22.2 No 60065:03
- Radiation Regulations: FCC Part15 Class B, ICES-003

**INCLUDED ACCESSORIES**

- AC power cord (approx. 118" (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: inch (mm)

**CONNECTION TERMINAL**

*C 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

<table>
<thead>
<tr>
<th>Signal name</th>
<th>H-Freq. (kHz)</th>
<th>V-Freq. (Hz)</th>
<th>Dot clock frequency (MHz)</th>
<th>PC IN</th>
<th>HDMI 1</th>
<th>HDMI 2</th>
<th>HDMI 3</th>
<th>HDMI 4</th>
<th>DVI-D IN</th>
<th>DIGITAL LINK</th>
<th>Display Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>525 (480) / 60p</td>
<td>15.73</td>
<td>59.94</td>
<td>13.5</td>
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<tr>
<td>625 (576) / 50p</td>
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<td>13.5</td>
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<tr>
<td>625 (576) / 50p*2</td>
<td>15.63</td>
<td>50.00</td>
<td>27.0</td>
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<tr>
<td>1125 (1080) / 60p<em>1</em>2</td>
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<td>1125 (1080) / 60p<em>1</em>2</td>
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<tr>
<td>1125 (1080) / 50p*1</td>
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<tr>
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<tr>
<td>1920 x 1080</td>
<td>67.50</td>
<td>60.00</td>
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<td>✔</td>
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<tr>
<td>1920 x 1200</td>
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</table>

**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 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |
| 3840 / 60p*2 | 135.0 | 60.00 | 594.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |
| 4096 / 50p   | 112.5 | 50.00 | 594.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |
| 4096 / 60p*2 | 135.0 | 60.00 | 594.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |

**4K (Dual Link) signal**

| 3840 / 50p   | 112.5 | 50.00 | 297.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |
| 3840 / 60p*2 | 135.0 | 60.00 | 297.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |
| 4096 / 50p   | 112.5 | 50.00 | 297.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |
| 4096 / 60p*2 | 135.0 | 60.00 | 297.0 | ✔     | ✔      | ✔      | ✔      | ✔      | ✔        |              |              |

*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 YCbcCr 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.