



65-inch class Full High Definition Plasma Display

## TH-65PF30U TENTATIVE

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

#### DISPLAY

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Screen Size (Diagonal)         | 64.7-inch (1,645 mm)                                 |
| Aspect ratio                   | 16:9                                                 |
| Effective Display Area (W x H) | 56.4" x 31.7" (1,434 x 806 mm)                       |
| Number of pixels (H x V)       | 1,920 x 1,080 pixels (1 pixel=3cells for R, G and B) |
| Pixel Pitch (H x V)            | 0.747 x 0.747 mm                                     |
| Contrast Ratio                 | 5,000,000 :1                                         |
| Gradation                      | 6,144 steps (equivalent)                             |
| Panel Life*1                   | approx. 100,000 hours                                |
| Full HD 3D                     | 3D Full HD Ready*2                                   |

\*1: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

\*2: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.

#### CONNECTION TERMINAL

|                        |                                     |                                                                                                                                                            |
|------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VIDEO IN               | BNC x 1                             | 1.0 V [p-p] (75 Ω)                                                                                                                                         |
| AUDIO IN (L/R)         | RCA x 1 set                         | 0.5 V [rms]                                                                                                                                                |
| COMPONENT/RGB IN       | BNC x 3                             | Y/G : with sync 1.0 V [p-p] (75 Ω)<br>B/Pb/Cb, R/Pr/Cr : 0.7 V [p-p] (75 Ω)                                                                                |
| AUDIO IN (L/R)         | RCA x 1 set                         | 0.5 V [rms]                                                                                                                                                |
| HDMI IN                | HDMI TYPE A connector x 1           |                                                                                                                                                            |
| DVI-D IN               | DVI-D 24pin x 1                     | Compliance with DVI Revision 1.0<br>Compatible with HDCP 1.1                                                                                               |
| AUDIO IN               | M3 jack x 1 (Common use with PC)    | 0.5 V [rms]                                                                                                                                                |
| PC IN                  | MINI D-SUB 15pin x1 (Female)        | Y/G : with sync 1.0 V [p-p] (75 Ω)<br>without sync 0.7 V [p-p] (75 Ω)<br>B/Pb/Cb, R/Pr/Cr : 0.7 V [p-p] (75 Ω)<br>HD/VD : 1.0~5.0 V [p-p] (high impedance) |
| AUDIO IN               | M3 jack x 1 (Common use with DVI-D) | 0.5 V [rms]                                                                                                                                                |
| Function Slot:SLOT 2.0 | 1 (Vacant)                          |                                                                                                                                                            |

#### CONTROL TERMINAL

|                                 |                                                                |
|---------------------------------|----------------------------------------------------------------|
| LAN                             | RJ45 10 BASE-T/100 BASE-TX, Compatible with PJ Link            |
| SERIAL                          | D-SUB 9pin x 1 (EXTERNAL CONTROL TERMINAL), RS-232C Compatible |
| 3D shutter out                  | M3 jack x 1 (for 3D IR Transmitter)                            |
| DC 8V out for 3D IR Transmitter | Center Plus for EIAJ 4 mm Plug                                 |

#### ELECTRICAL

|                                     |                               |
|-------------------------------------|-------------------------------|
| Power Requirements                  | 110-127 V AC, 50 Hz/60 Hz     |
| Power Consumption                   | 555 W                         |
| On Mode Average Power Consumption*2 | T.B.D                         |
| Power off condition                 | 0.2 W                         |
| Stand-by condition                  | Save ON 0.4 W, Save OFF 0.7 W |

\*2: Based on IEC 62087 Ed.2 measurement method.

#### SOUND

|              |                                   |
|--------------|-----------------------------------|
| Audio Output | 8Ω, 20 W [10 W + 10 W] (10 % THD) |
|--------------|-----------------------------------|

#### MECHANICAL

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Dimensions (W x H x D)        | 61.2" x 36.5" x 3.9" (1,554 × 925 × 99 mm)     |
| Carton Dimensions (W x H x D) | 67.2" x 44.6" x 15.9" (1,706 × 1,134 × 400 mm) |
| Weight                        | approx. 132.3 lbs. (60.0 kg)                   |
| Gross weight                  | approx. 167.6 lbs. (76.0 kg)                   |
| Cabinet Color                 | Black                                          |

#### ENVIRONMENTAL

|                       |                                                |
|-----------------------|------------------------------------------------|
| Operating environment | Temperature: 32 °F to 104 °F (0 °C to 40 °C)   |
|                       | Humidity : 20 % to 80 % (Non condensation)     |
|                       | Altitude : 0 to 9,100 feet (0 to 2,800 m)      |
| Storage environment   | Temperature: -4 °F to 140 °F (-20 °C to 60 °C) |
|                       | Humidity : 20 % to 90 % (Non condensation)     |
|                       | Altitude : 0 to 10,800 feet (0 to 3,300 m)     |

#### STANDARD (CERTIFICATIONS)

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| SAFETY REGULATIONS    | UL60065, CAN/CSA-22.2 No 60065:03, NOM approval |
| RADIATION REGULATIONS | FCC Part 15 Class-B, ICES-003                   |
| Energy star 5.0, CEC  | Yes                                             |

#### REMOTE CONTROL TRANSMITTER

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

|                      |                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INCLUDED ACCESSORIES | - AC power cord - Operating instruction book - CD-ROM (Operating instruction)<br>- Remote control transmitter - Batteries - Clamper x 1 - Ferrite core x 2 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |              |
|----------|--------------|
| UPC Code | 885170043268 |
|----------|--------------|

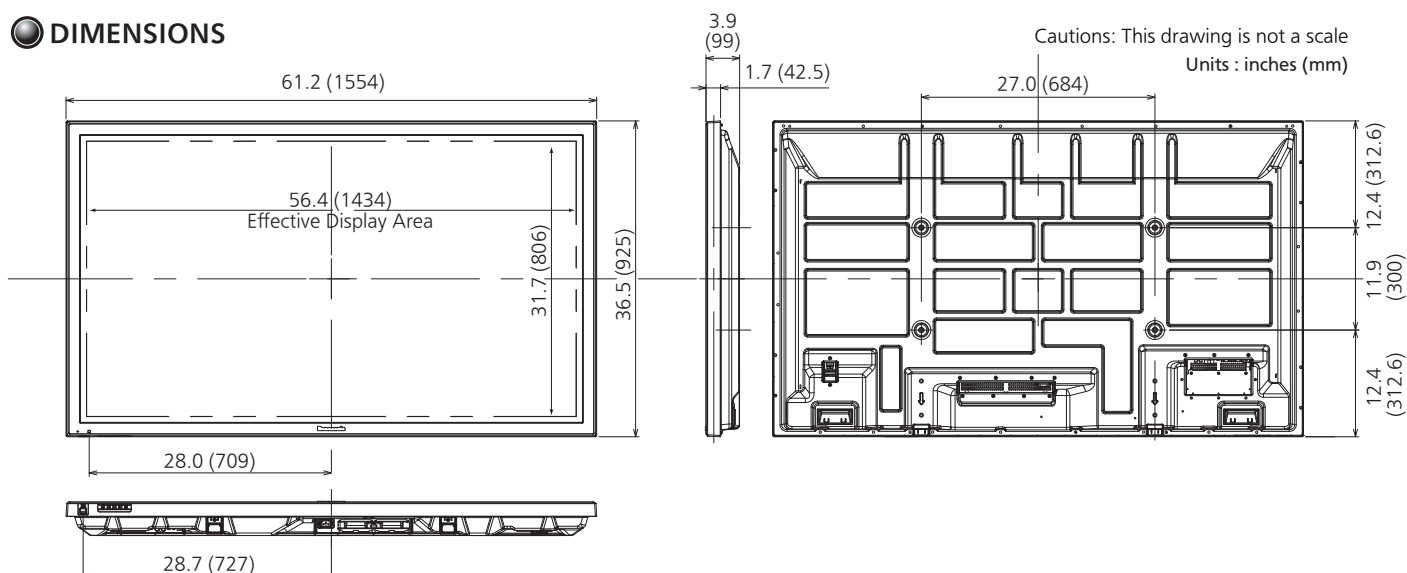
## MAIN FEATURE

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| Digital Zoom                  | Yes                                                                     |
| Portrait Zoom                 | Yes                                                                     |
| Video Wall                    | Yes (N x M, up to 5 x 5)                                                |
| 1 : 1Pixel Mode               | Yes                                                                     |
| Display size setting          | Yes                                                                     |
| Auto Set Up                   | Yes                                                                     |
| Picture profile (Memory save) | Yes                                                                     |
| HDMI Range                    | Yes                                                                     |
| Screen Saver                  | Negative image, Scrolling bar only, White screen, Overlay scrolling bar |
| NANO DRIFT Saver              | Yes (LOW/MID/HIGH)                                                      |
| Side Bar Adjust               | Yes                                                                     |
| Peak Limit                    | Yes                                                                     |
| Power Save                    | Yes                                                                     |
| Stand By Save                 | Yes                                                                     |
| Power Management (PC/DVI)     | Yes                                                                     |
| No Signal Power Off           | Yes                                                                     |
| Weekly Command Timer          | Yes                                                                     |
| Audio Input Select            | Yes                                                                     |
| Studio Mode (W/B, Gain)       | Yes                                                                     |
| Initial INPUT/VOL Level       | Yes                                                                     |
| INPUT/Button Lock             | Yes                                                                     |
| Remote-control User Level     | Yes                                                                     |
| Maximum VOL level             | Yes                                                                     |

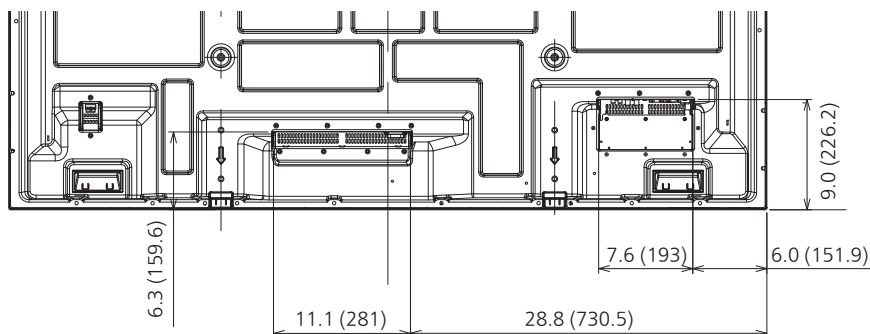
## OPTIONAL ACCESSORIES

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Pedestal                                  | TY-ST65P20                             |
| Wall-hanging bracket (vertical/angled)    | TY-WK65PR20                            |
| Speakers                                  | TY-SP65P11VK                           |
| Touch Panel                               | TY-TP65P10S<br>TY-TP65P30K             |
| Anti Glare Filter                         | TY-AR65P9W                             |
| 3D IR Transmitter                         | TY-3D30TRW                             |
| 3D Eyewear                                | TY-EW3D2LU<br>TY-EW3D2MU<br>TY-EW3D2SU |
| Dual HD-SDI Terminal Board with 3D signal | TY-FB30DHD3D                           |
| Dual DVI-D Terminal Board with 3D signal  | TY-FB30DD3D                            |
| BNC Dual Video Terminal Board             | TY-FB9BD                               |
| DVI-D Terminal Board                      | TY-FB11DD                              |
| Dual HDMI Terminal Board                  | TY-FB10HMD                             |
| HD-SDI Terminal Board                     | TY-FB9HD                               |
| HD-SDI with Audio Terminal Board          | TY-FB10HD                              |
| Dual link HD-SDI Terminal Board           | TY-FB11DHD                             |

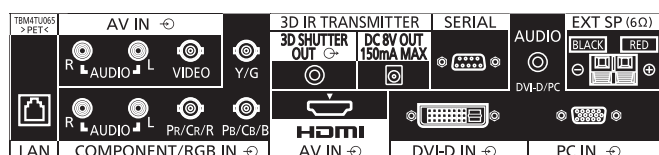
## DIMENSIONS



## TERMINAL DIMENSIONS



## CONNECTION TERMINAL



## ● Applicable Input Signals

\* Mark: Applicable input signal

|    | Signal name                | Horizontal frequency (kHz) | Vertical frequency (Hz) | COMPONENT / RGB IN / PC IN (Dot clock (MHz)) | DVI-D IN (Dot clock (MHz)) | HDMI |
|----|----------------------------|----------------------------|-------------------------|----------------------------------------------|----------------------------|------|
| 1  | 525 (480) / 60i            | 15.73                      | 59.94                   | * (13.5)                                     | * (27.0)                   | *    |
| 2  | 525 (480) / 60p            | 31.47                      | 59.94                   | * (27.0) *5                                  | * (27.0)                   | *    |
| 3  | 625 (575) / 50i            | 15.63                      | 50.00                   | * (13.5)                                     |                            |      |
| 4  | 625 (576) / 50i            | 15.63                      | 50.00                   |                                              | * (27.0)                   | *    |
| 5  | 625 (575) / 50p            | 31.25                      | 50.00                   | * (27.0)                                     |                            |      |
| 6  | 625 (576) / 50p            | 31.25                      | 50.00                   |                                              | * (27.0)                   | *    |
| 7  | 750 (720) / 60p            | 45.00                      | 60.00                   | * (74.25)                                    | * (74.25)                  | *    |
| 8  | 750 (720) / 50p            | 37.50                      | 50.00                   | * (74.25)                                    | * (74.25)                  | *    |
| 9  | 1,125 (1,080) / 60p        | 67.50                      | 60.00                   | * (148.5) *1                                 | * (148.5)                  | *    |
| 10 | 1,125 (1,080) / 60i        | 33.75                      | 60.00                   | * (74.25) *1                                 | * (74.25)                  | *    |
| 11 | 1,125 (1,080) / 50p        | 56.26                      | 50.00                   | * (148.5) *1                                 | * (148.5)                  | *    |
| 12 | 1,125 (1,080) / 50i        | 28.13                      | 50.00                   | * (74.25) *1                                 | * (74.25)                  | *    |
| 13 | 1,125 (1,080) / 24sF       | 27.00                      | 48.00                   | * (74.25) *2                                 |                            |      |
| 14 | 1,125 (1,080) / 30p        | 33.75                      | 30.00                   | * (74.25) *1                                 | * (74.25)                  |      |
| 15 | 1,125 (1,080) / 25p        | 28.13                      | 25.00                   | * (74.25) *1                                 | * (74.25)                  |      |
| 16 | 1,125 (1,080) / 24p        | 27.00                      | 24.00                   | * (74.25) *1                                 | * (74.25)                  | *    |
| 17 | 1,250 (1,080) / 50i        | 31.25                      | 50.00                   | * (74.25) *3                                 |                            |      |
| 18 | 2,048 × 1,080 / 24sF *7    | 27.00                      | 48.00                   |                                              |                            |      |
| 19 | 2,048 × 1,080 / 24p *7     | 27.00                      | 24.00                   |                                              |                            |      |
| 20 | 640 × 400 @70 Hz           | 31.46                      | 70.07                   | * (25.17)                                    |                            |      |
| 21 | 640 × 480 @60 Hz           | 31.47                      | 59.94                   | * (25.18) *6                                 | * (25.18)                  | *    |
| 22 | 640 × 480 @72 Hz           | 37.86                      | 72.81                   | * (31.5)                                     |                            |      |
| 23 | 640 × 480 @75 Hz           | 37.50                      | 75.00                   | * (31.5)                                     |                            |      |
| 24 | 640 × 480 @85 Hz           | 43.27                      | 85.01                   | * (36.0)                                     |                            |      |
| 25 | 800 × 600 @56 Hz           | 35.16                      | 56.25                   | * (36.0)                                     |                            |      |
| 26 | 800 × 600 @60 Hz           | 37.88                      | 60.32                   | * (40.0)                                     | * (40.0)                   | *    |
| 27 | 800 × 600 @72 Hz           | 48.08                      | 72.19                   | * (50.0)                                     |                            |      |
| 28 | 800 × 600 @75 Hz           | 46.88                      | 75.00                   | * (49.5)                                     |                            |      |
| 29 | 800 × 600 @85 Hz           | 53.67                      | 85.06                   | * (56.25)                                    |                            |      |
| 30 | 852 × 480 @60 Hz           | 31.47                      | 59.94                   | * (33.54) *6                                 | * (34.24)                  | *    |
| 31 | 1,024 × 768 @50 Hz         | 39.55                      | 50.00                   |                                              | * (51.89)                  | *    |
| 32 | 1,024 × 768 @60 Hz         | 48.36                      | 60.00                   | * (65.0)                                     | * (65.0)                   | *    |
| 33 | 1,024 × 768 @70 Hz         | 56.48                      | 70.07                   | * (75.0)                                     |                            |      |
| 34 | 1,024 × 768 @75 Hz         | 60.02                      | 75.03                   | * (78.75)                                    |                            |      |
| 35 | 1,024 × 768 @85 Hz         | 68.68                      | 85.00                   | * (94.5)                                     |                            |      |
| 36 | 1,066 × 600 @60 Hz         | 37.64                      | 59.94                   | * (53.0)                                     | * (53.0)                   | *    |
| 37 | 1,152 × 864 @60 Hz         | 53.70                      | 60.00                   |                                              | * (81.62)                  | *    |
| 38 | 1,152 × 864 @75 Hz         | 67.50                      | 75.00                   | * (108.0)                                    |                            |      |
| 39 | 1,280 × 768 @60 Hz         | 47.70                      | 60.00                   | * (80.14)                                    |                            |      |
| 40 | 1,280 × 960 @60 Hz         | 60.00                      | 60.00                   | * (108.0)                                    |                            |      |
| 41 | 1,280 × 960 @85 Hz         | 85.94                      | 85.00                   | * (148.5)                                    |                            |      |
| 42 | 1,280 × 1,024 @60 Hz       | 63.98                      | 60.02                   | * (108.0)                                    | * (108.0)                  | *    |
| 43 | 1,280 × 1,024 @75 Hz       | 79.98                      | 75.03                   | * (135.0)                                    |                            |      |
| 44 | 1,280 × 1,024 @85 Hz       | 91.15                      | 85.02                   | * (157.5)                                    |                            |      |
| 45 | 1,366 × 768 @50 Hz         | 39.55                      | 50.00                   |                                              | * (69.92)                  | *    |
| 46 | 1,366 × 768 @60 Hz         | 48.36                      | 60.00                   | * (86.71)                                    | * (87.44)                  | *    |
| 47 | 1,400 × 1,050 @60 Hz       | 65.22                      | 60.00                   |                                              | * (122.61)                 | *    |
| 48 | 1,600 × 1,200 @60 Hz       | 75.00                      | 60.00                   | * (162.0)                                    | * (162.0)                  | *    |
| 49 | 1,600 × 1,200 @65 Hz       | 81.25                      | 65.00                   | * (175.5)                                    |                            |      |
| 50 | 1,920 × 1,080 @60 Hz       | 67.50                      | 60.00                   | * (148.5) *4                                 | * (148.5)                  | *    |
| 51 | 1,920 × 1,200 @60 Hz       | 74.04                      | 59.95                   |                                              | * (154.0)                  | *    |
| 52 | Macintosh13" (640 × 480)   | 35.00                      | 66.67                   | * (30.24)                                    |                            |      |
| 53 | Macintosh16" (832 × 624)   | 49.72                      | 74.54                   | * (57.28)                                    |                            |      |
| 54 | Macintosh21" (1,152 × 870) | 68.68                      | 75.06                   | * (100.0)                                    |                            |      |

\* 1: Based on SMPTE 274M standard.

\* 2: Based on SMPTE RP211 standard.

\* 3: Based on SMPTE 295M standard.

\* 4: The input signal is recognized as 1,125 (1,080) / 60p.

\* 5: When selected the RGB format and 525p signal input to the PC IN terminal, it is recognized as VGA 60Hz signal.

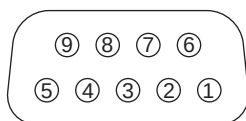
\* 6: When inputted VGA 60Hz format signal from the other than PC IN terminal, it is recognized as 525p signal.

\* 7: Based on SMPTE 292M and 372M standards. These signals can be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

Note: Signals without above specification may not be displayed properly.

## Pin assignments and signal names

### Serial Terminals Connection : D-sub 9-Pin



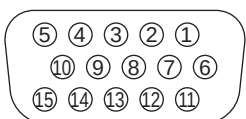
| Pin No. | Details               |
|---------|-----------------------|
| ②       | R X D                 |
| ③       | T X D                 |
| ⑤       | GND                   |
| ④ • ⑥   | Non use               |
| ⑦<br>⑧  | (Shorted in this set) |
| ① • ⑨   | NC                    |

These signal names are those of computer specifications.

### Communication parameters

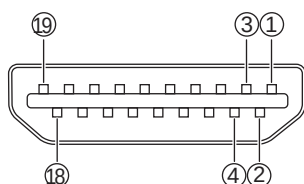
|                        |                   |
|------------------------|-------------------|
| Signal level           | RS-232C compliant |
| Synchronization method | Asynchronous      |
| Baud rate              | 9600 bps          |
| Parity                 | None              |
| Character length       | 8 bits            |
| Stop bit               | 1 bit             |
| Flow control           | -                 |

### PC Input Terminals Connection : Mini D-sub 15-Pin



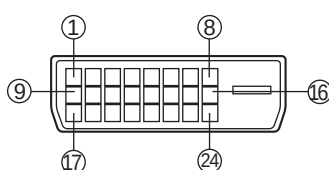
| Pin No. | Signal Name                         | Pin No. | Signal Name  | Pin No. | Signal Name        |
|---------|-------------------------------------|---------|--------------|---------|--------------------|
| ①       | R (P <sub>R</sub> /C <sub>R</sub> ) | ⑥       | GND (Ground) | ⑪       | NC (not connected) |
| ②       | G (Y)                               | ⑦       | GND (Ground) | ⑫       | SDA                |
| ③       | B (P <sub>B</sub> /C <sub>B</sub> ) | ⑧       | GND (Ground) | ⑬       | HD/SYNC            |
| ④       | NC (not connected)                  | ⑨       | +5 V DC      | ⑭       | VD                 |
| ⑤       | GND (Ground)                        | ⑩       | GND (Ground) | ⑮       | SCL                |

### HDMI connection



| Pin No. | Signal Name          | Pin No. | Signal Name               |
|---------|----------------------|---------|---------------------------|
| ①       | T.M.D.S Data2+       | ⑪       | T.M.D.S Clock Shield      |
| ②       | T.M.D.S Data2 Shield | ⑫       | T.M.D.S Clock-            |
| ③       | T.M.D.S Data2-       | ⑬       | CEC                       |
| ④       | T.M.D.S Data1+       | ⑭       | Reserved (N.C. on device) |
| ⑤       | T.M.D.S Data1 Shield | ⑮       | SCL                       |
| ⑥       | T.M.D.S Data1-       | ⑯       | SDA                       |
| ⑦       | T.M.D.S Data0+       | ⑰       | DDC/CEC Ground            |
| ⑧       | T.M.D.S Data0 Shield | ⑱       | +5V Power                 |
| ⑨       | T.M.D.S Data0-       | ⑲       | Hot Plug Detect           |
| ⑩       | T.M.D.S Clock+       |         |                           |

### DVI-D IN connection



| Pin No. | Signal Name            | Pin No. | Signal Name            |
|---------|------------------------|---------|------------------------|
| ①       | T.M.D.S. data 2-       | ⑬       | _____                  |
| ②       | T.M.D.S. data 2+       | ⑭       | +5 V DC                |
| ③       | T.M.D.S. data 2 shield | ⑮       | Ground                 |
| ④       | _____                  | ⑯       | Hot plug detect        |
| ⑤       | _____                  | ⑰       | T.M.D.S. data 0-       |
| ⑥       | DDC clock              | ⑱       | T.M.D.S. data 0+       |
| ⑦       | DDC data               | ⑲       | T.M.D.S. data 0 shield |
| ⑧       | _____                  | ⑳       | _____                  |
| ⑨       | T.M.D.S. data 1-       | ㉑       | _____                  |
| ⑩       | T.M.D.S. data 1+       | ㉒       | T.M.D.S. clock shield  |
| ⑪       | T.M.D.S. data 1 shield | ㉓       | T.M.D.S. clock+        |
| ⑫       | _____                  | ㉔       | T.M.D.S. clock-        |