

High Definition Plasma Display

TH - 103PF9UK

[Product summary]

- 103" **1080p** High Definition Plasma Display for Professional use
- "Super Cinema Mode" - perfectly tuned color setting for true professional users - enables a reference monitor level of color reproduction on native 1080p high resolution panel
- Equipped with three interchangeable slots - provides flexible and powerful system solution by adding/exchanging a wide variety of optional plug-in boards
- New optional plug-in boards are also available to maximize 1080p resolution panel performance - TY-FB9FDD (UxGA compatible DVI board (pre-installed when shipped)), TY-FB9HD (full 10 bit processing HD-SDI board)
- Available with various unique professional features like, Dual picture mode, Digital zoom, Built-in video wall image enlarger, etc...

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

| Display | |
|---|--|
| Screen Size (Diagonal) | 103 - inch (260 cm) |
| Aspect ratio | 16:9 |
| Effective Display Area (W x H) | 89.3" x 50.3" (2,269 x 1,277 mm) |
| Resolution (H x V) | 1,920 x 1,080 pixels (1pixel=3cells for R,G and B) |
| Pixel Pitch (H x V) | 1.182 x 1.182 mm |
| Brightness | 1,000 cd/m ² |
| Contrast Ratio (Bright room) | Max. 5,000:1 (400:1) |
| Gradation | 4,096 steps (equivalent) |
| Signal Compatibility | |
| Scan Rate | Horizontal frequency 15-110 kHz Vertical frequency 48 -120Hz |
| PC Signal Compatibility | VGA, SVGA, WVGA, WSVGA, XGA, SXGA, XGA+, SXGA+, WXGA UXGA, WUXGA(Compressed) |
| Supported Video Standards | NTSC, PAL, PAL 60, SECAM, Modified NTSC |
| Video Signal Compatibility | 525(480)/60i·60p, 625(575)/50i·50p, 750(720)/60p·50p, 1125(1080)/60i·50i·24p·24sF·25p·30p·60p·50p, 1250(1080)/50i |
| Input / Output | |
| Fixed Terminal | |
| PC IN | Mini D-sub 15pin x1 Analog RGB / Component - Plug & Play (VESA DDC 1/2B) |
| AUDIO IN | M3 jack x 1 |
| SERIAL | D-sub 9-pin x 1 External control, RS-232C compatible |
| AUDIO OUT | RCA pin jack ×2(L/R) Output level : VARIABLE |
| Interchangeable Terminals | |
| (Slot1) Vacant | |
| (Slot2:TY-FB9FDD) DVI-D IN | DVI 24 pin x 1 |
| AUDIO IN | M3 jack x 1 L / R : 0.5 Vrms |
| (Slot3:TY-42TM6A) COMPONENT IN | BNC x 3 Analog RGB / Component |
| AUDIO IN (L/R) | RCA pin jack x 2 |
| ELECTRICAL | |
| Power Requirements | AC 240 V, 50Hz/60Hz |
| Power Consumption | 1550 W |
| Power off condition | 0.5 W |
| Stand-by condition | Save Off 1.5 W, Save On 1.3 W |
| MECHANICAL | |
| Dimensions (W x H x D) | 95.0" x 55.9" x 5.0" (2,414 x 1,421 x 129 mm) (5.6" (141mm) when including protruding portion of slots) |
| Weight | approx. 485 lbs. (220 kg) |
| Cabinet color | Black |
| ENVIRONMENTAL | |
| Operating environment | |
| Temperature | 32°F - 104°F (0 °C - 40 °C) |
| Humidity | 20 % - 80 % (Non condensation) |
| Altitude | 0 - 7,800 feet (0 - 2,400 m) |
| Storage environment | |
| Temperature | -4°F - 140°F (-20°C - 60 °C) |
| Humidity | 20% - 90% (Non condensation) |
| Altitude | 0 - 10,800 feet (0 - 3,300 m)) |
| EMI REGULATIONS | |
| FCC Part 15 Class-B, ICES-003 | |
| SAFETY STANDARDS | |
| UL6500 Ver.2 | |
| IR REMOTE CONTROL | |
| Power Requirements | DC 3V (UM3 battery x 2) |
| Operation distance | approx. 23 feet (7m) in front of plasma display |
| Weight | approx. 4.6 oz (130g) including batteries |
| INCLUDED ACCESSORIES | |
| - Remote controller - Batteries - Fixing Band x 2 - Power supply cord x 2 - Operating instruction book - Allenwrench - Eyebolt cap x 3 | |
| OPTIONAL ACCESSORIES | |
| - Wall-hanging bracket (vertical) - Pedestal - Terminal boards | |

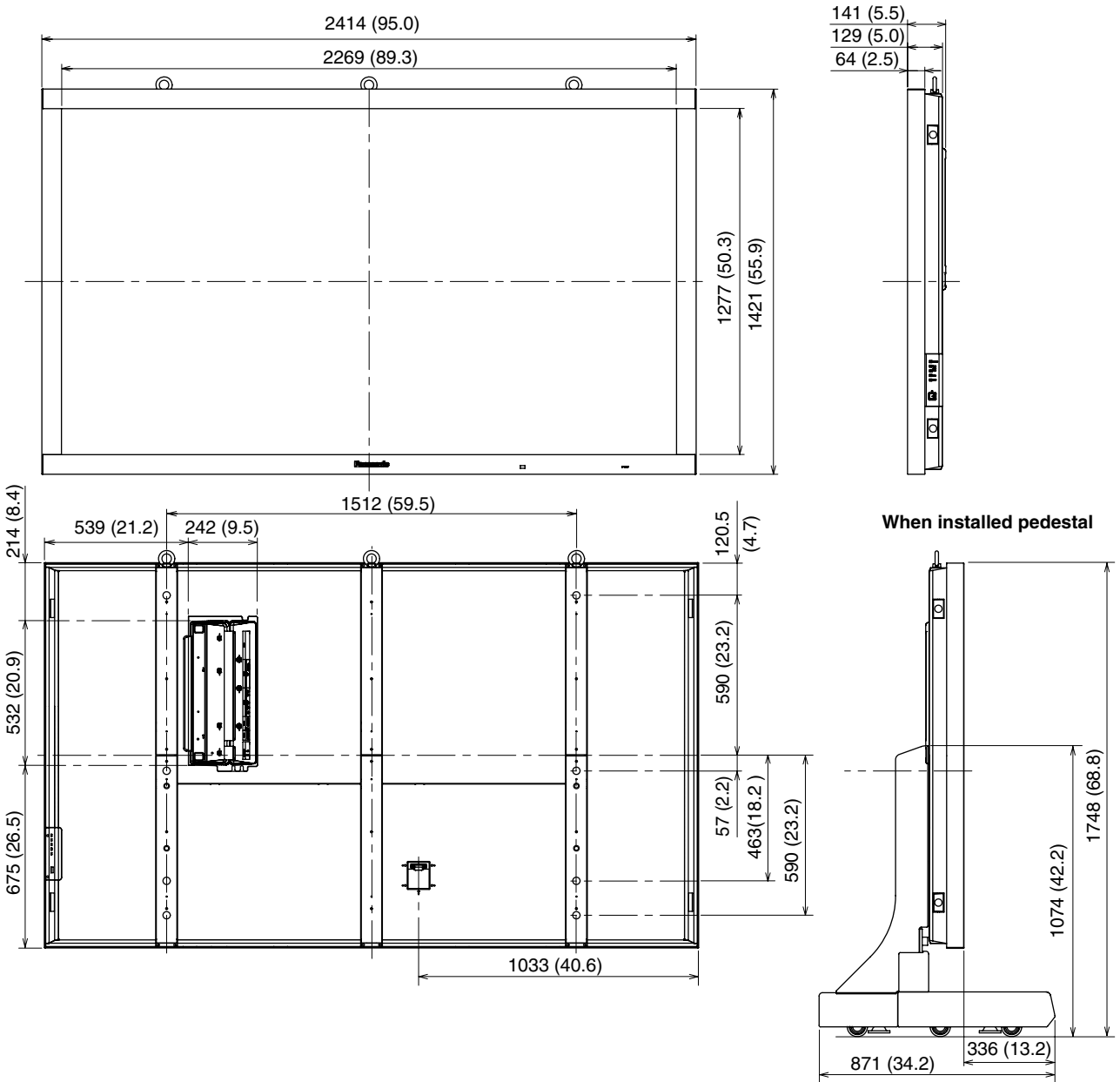
Panasonic

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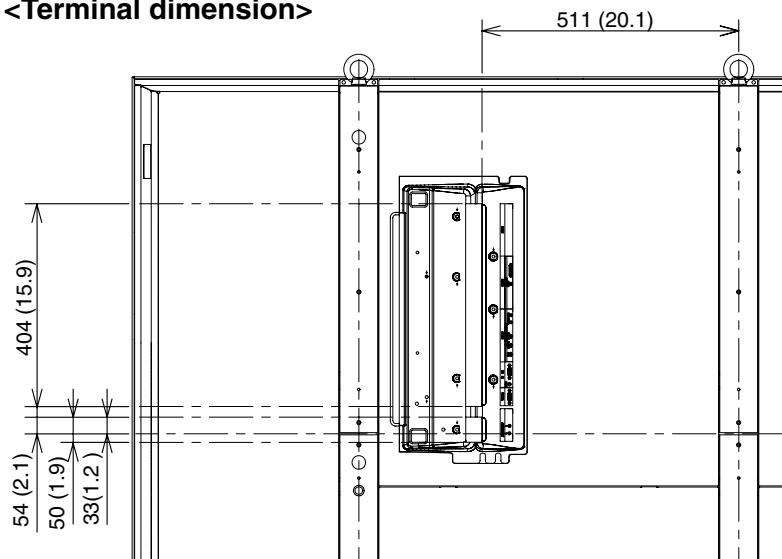
■Dimensions (Shown with optional Pedestal stand)

Units : mm (inches)

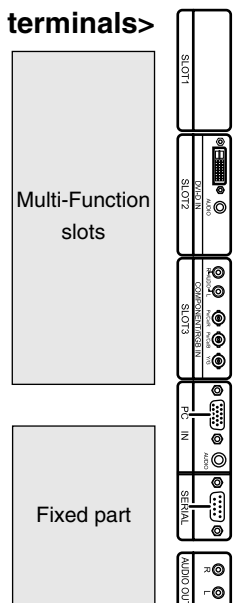
Three eye bolts are attached on the top of the unit as shown in the diagram when the unit is shipped. They can be utilized for hoisting up the unit, and can be removed after installation.



<Terminal dimension>



<Connection terminals>



Preset Input Signals

| | Signal name | horizontal frequency (kHz) | vertical frequency (Hz) | Optional Terminal Board | | | | | | | | | | | | | | |
|-------------------|-----------------|----------------------------|-------------------------|-------------------------------------|----------------------------|--------------------|------------------------------|----------------------------|-------------------------|-----------------|--------------|-----------------|---------------|------------------------------------|---|---|---|--|
| | | | | Composite/Component Video TY-42TM6Y | Component Video TY-42TM6AZ | PC Input TY-42TM6P | RGB Active Through TY-42TM6G | Composite Video TY-42TM6BY | BNC Dual Video TY-FB9BD | DVI-D TY-FB9FDD | SDI TY-FB7SD | HD-SDI TY-FB9HD | HDMI TY-FB8HM | PC IN(D-sub 15-pin) Fixed Terminal | | | | |
| Composite | NTSC | 15.73 | 59.94 | Y | | | | Y | Y | | | | | | | | | |
| | PAL | 15.63 | 50.00 | Y | | | | Y | Y | | | | | | | | | |
| | PAL60 | 15.73 | 59.94 | Y | | | | Y | Y | | | | | | | | | |
| | SECAM | 15.63 | 50.00 | Y | | | | Y | Y | | | | | | | | | |
| | Modified NTSC | 15.73 | 59.94 | Y | | | | Y | Y | | | | | | | | | |
| Component / RGB | 525(480)/60i | 15.73 | 59.94 | Y | Y | Y | Y | | | | Y | Y | | | | | Y | |
| | 525(480)/60p | 31.47 | 59.94 | Y | Y | Y | Y | | | Y | | | | Y | | | Y | |
| | 625(575)/50i | 15.63 | 50.00 | Y | Y | Y | Y | | | | Y | Y | | | | | Y | |
| | 625(575)/50p | 31.25 | 50.00 | Y | Y | Y | Y | | | | | | | Y | | | Y | |
| | 625(576)/50p | 31.25 | 50.00 | | | | | | | | Y | | | | | Y | | |
| | 750(720)/60p | 45.00 | 60.00 | Y | Y | Y | Y | | | Y | | | Y | Y | Y | Y | Y | |
| | 750(720)/50p | 37.50 | 50.00 | Y | Y | Y | Y | | | Y | | | Y | Y | Y | Y | Y | |
| | 1125(1080)/60i | 33.75 | 60.00 | Y | Y | Y | Y | | | Y | | | Y | Y | Y | Y | Y | |
| | 1125(1080)/60p | 67.50 | 60.00 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1125(1080)/50i | 28.13 | 50.00 | Y | Y | Y | Y | | | Y | | | Y | Y | Y | Y | Y | |
| | 1125(1080)/50p | 56.25 | 50.00 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1125(1080)/30p | 33.75 | 30.00 | Y | Y | Y | Y | | | | | | Y | | | | Y | |
| | 1125(1080)/25p | 28.13 | 25.00 | Y | Y | Y | Y | | | | | | Y | | | | Y | |
| | 1125(1080)/24p | 27.00 | 24.00 | Y | Y | Y | Y | | | | | | Y | | | | Y | |
| | 1125(1080)/24sF | 27.00 | 48.00 | Y | Y | Y | Y | | | | | | Y | | | | Y | |
| 1250(1080)/50i | 31.25 | 50.00 | Y | Y | Y | Y | | | | | | | | | | Y | | |
| RGB | 640×400@70 | 31.46 | 70.07 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 640×480@60 | 31.47 | 59.94 | Y | Y | Y | Y | | | Y | | | | | | Y | Y | |
| | 640×480@72 | 37.86 | 72.81 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 640×480@75 | 37.50 | 75.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 640×480@85 | 43.27 | 85.01 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 852×480@60 | 31.47 | 59.94 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 800×600@56 | 35.16 | 56.25 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 800×600@60 | 37.88 | 60.32 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 800×600@72 | 48.08 | 72.19 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 800×600@75 | 46.88 | 75.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 800×600@85 | 53.67 | 85.06 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1066×600@60 | 37.88 | 60.32 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1024×768@50 | 39.55 | 50.00 | | | | | | | Y | | | | | | | | |
| | 1024×768@60 | 48.36 | 60.00 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1024×768@70 | 56.48 | 70.07 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1024×768@75 | 60.02 | 75.03 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1024×768@85 | 68.68 | 85.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1366×768@50 | 39.55 | 50.00 | | | | | | | Y | | | | | | | | |
| | 1366×768@60 | 48.36 | 60.00 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1152×864@60 | 53.70 | 60.00 | | | | | | | Y | | | | | | | | |
| | 1152×864@75 | 67.50 | 75.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1280×960@60 | 60.00 | 60.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1280×960@85 | 85.94 | 85.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1280×1024@60 | 63.98 | 60.02 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1280×1024@75 | 79.98 | 75.03 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1280×1024@85 | 91.15 | 85.02 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1400×1050@60 | 65.22 | 60.00 | | | | | | | Y | | | | | | | | |
| | 1600×1200@60 | 75.00 | 60.00 | Y | Y | Y | Y | | | Y | | | | | | | Y | |
| | 1600×1200@65 | 81.25 | 65.00 | Y | Y | Y | Y | | | | | | | | | | Y | |
| | 1920×1200@60 | 74.04 | 59.95 | | | | | | | Y | | | | | | | | |
| Mac13" (640×480) | 35.00 | 66.67 | Y | Y | Y | Y | | | | | | | | | | Y | | |
| Mac16" (832×624) | 49.72 | 74.54 | Y | Y | Y | Y | | | | | | | | | | Y | | |
| Mac21" (1152×870) | 68.68 | 75.06 | Y | Y | Y | Y | | | | | | | | | | Y | | |

Serial RS232C : D-sub 9-Pin (Male)



Pin Assignment and Signal Name

| Pin No. | Signal name | Descriptions |
|---------|-------------|---------------|
| 1 | CD | NC |
| 2 | RXD | Receive Data |
| 3 | TXD | Transmit Data |
| 4 | DTR | Not used |
| 5 | GND | Ground |
| 6 | DSR | Not used |
| 7 | RTS | Short Circuit |
| 8 | CTS | |
| 9 | RI | NC |

Transmitting Conditions

| Signal Level | Complied with RS232C |
|------------------------|----------------------|
| Synchronization method | Asynchronous |
| Baud Rate | 9600 bps |
| Parity | None |
| Character Length | 8 bits |
| Stop Bit | 1 bit |
| Flow control | - |

PC Input : D-Sub 15-Pin (Female)



Signal Name

| Pin No. | Signal name |
|---------|-------------------------------------|
| 1 | R (P _R /C _R) |
| 2 | G (Y) |
| 3 | B (P _B /C _B) |
| 4 | NC (Not connected) |
| 5 | GND (Ground) |
| 6 | GND (Ground) |
| 7 | GND (Ground) |
| 8 | GND (Ground) |
| 9 | NC (Not connected) |
| 10 | GND (Ground) |
| 11 | NC (Not connected) |
| 12 | SDA |
| 13 | HD/SYNC |
| 14 | VD |
| 15 | SCL |