

Custom Home Theater Plasma Display

TH-65VX100E

Product summary



- New Generation Premiere Plasma Panel 60,000:1 Contrast
- A wider color range than HDTV standard by 120%
- The industry-leading 7,160 gradation & 18bit process
- 24 Adjustment menus including 6 gamma preset curve & memory
- Internal Scaler Bypass Function
- Function slot board –HD-SDI board available
- Stylish Aluminum Hairline Bezel
- Abundant terminals 4x HDMI, Multi function slot

Product specification (Design and specifications subject to change without notice)

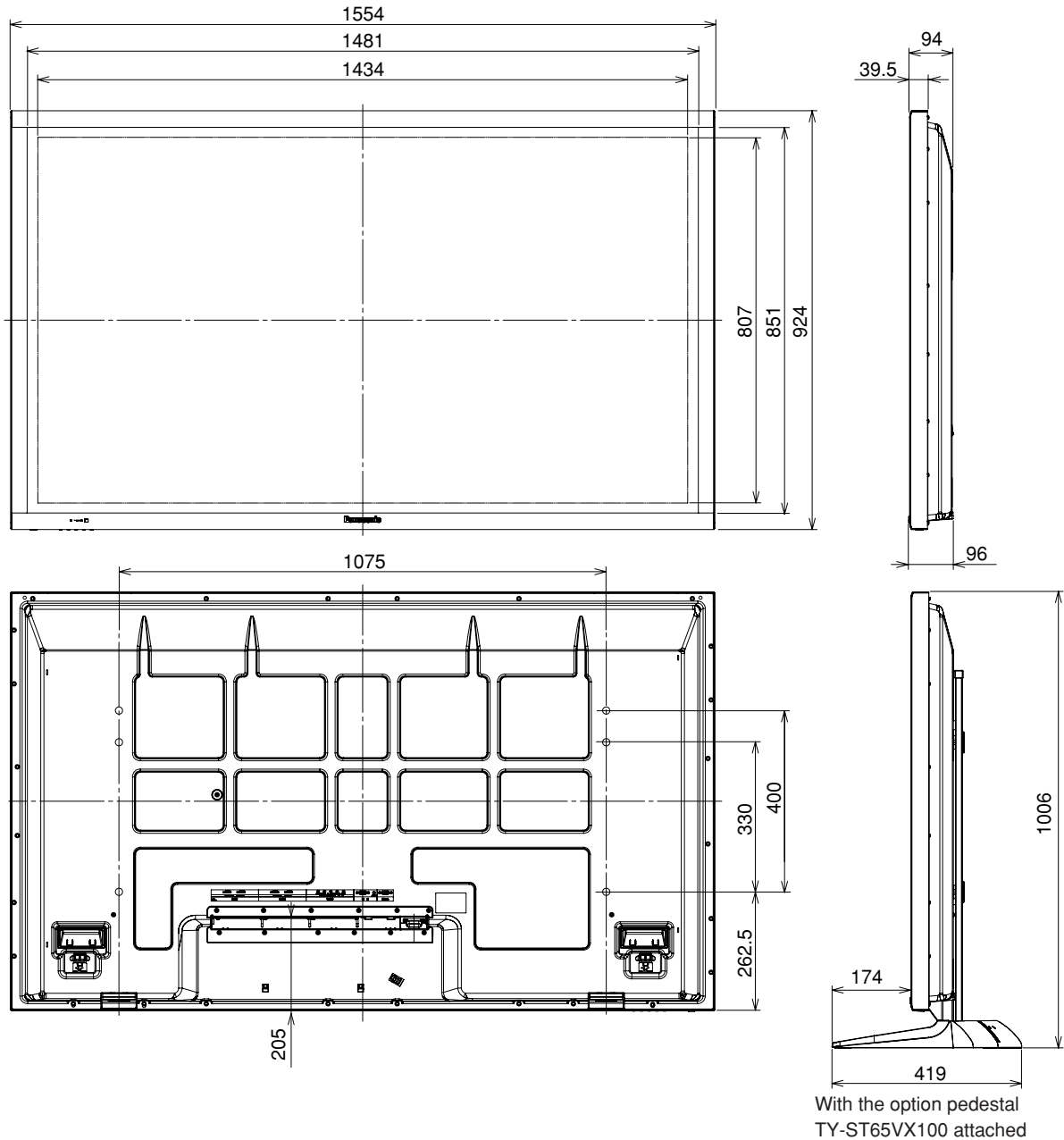
| DISPLAY | | |
|--------------------------------|--|--|
| Screen Size (Diagonal) | 65-inch (1,646 mm) | |
| Aspect ratio | 16:9 | |
| Effective Display Area (W x H) | 1,434 x 807 mm | |
| Resolution (H x V) | 1,920 x 1,080 pixels (1pixel=3cells for R, G and B) | |
| Pixel Pitch (H x V) | 0.747 x 0.747 mm | |
| Contrast Ratio | 60,000:1 | |
| Gradation | 7,160 steps (equivalent) | |
| APPLICABLE SIGNALS | | |
| PC Signal Compatibility | VGA, SVGA, XGA, WXGA, SXGA, UXGA (UXGA : compressed) | |
| | Horizontal scanning frequency 15-110 kHz | |
| | Vertical scanning frequency 48 -120 Hz | |
| TECHNICAL FEATURES | | |
| Picture Menu | STANDARD / DYNAMIC / CINEMA / MONITOR | |
| Color Temp | NORMAL-COOL-STUDIO-WARM | |
| Black Extension | Yes | |
| Input Level | Yes | |
| Gamma | S CURVE / 1.0 / 2.0 / 2.2 / 2.5 / 2.6 | |
| AGC | Yes (ON / OFF) | |
| W/B | HIGH R / G / B, LOW R / G / B | |
| 3:2 Pulldown | Yes (ON / OFF) | |
| Studio Gain | Yes (ON / OFF) | |
| Video Noise Reduction | Yes (ON / OFF) | |
| Block Noise Reduction | Yes (ON / OFF) | |
| Mosquito Noise Reduction | Yes (ON / OFF) | |
| isf Mode | Day / Night | |
| INPUT / OUTPUT | | |
| Fixed Terminals | | |
| PC IN | Mini D-sub 15pin x 1 (Female) | |
| | *Plug & Play (VESA DDC 2B) | |
| AUDIO IN | M3 jack x 1 | |
| SERIAL | D-sub 9-pin x 1 (Male) | |
| Interchangeable Terminals | | |
| (Slot1) HDMI IN | HDMI x 2 | |
| (Slot2) HDMI IN | HDMI x 2 | |
| (Slot3) COMPONENT IN | RCA x 3 | |
| AUDIO IN(L/R) | RCA pin jack x 2 | |
| USEFUL FEATURES | | |
| EXT. SCALER function | ON/OFF | |
| User Calibration Memory | 16 memories | |
| Memory Lock | Lock1 / Lock2 | |
| Screen Saver | Yes (4 different mode) | |
| Side Bar Adjust | OFF / DARK / MID / BRIGHT | |
| Wobbling | ON1 / ON2 / OFF | |
| Peak Limit | Yes (ON / OFF) | |
| Power Save | Yes (ON / OFF) | |
| Stand By Save | Yes (ON / OFF) | |
| Power Management | Yes (ON / OFF) | |
| Auto Power Off | Yes (ON / OFF) | |
| Customizing the On-Screen | TYPE1 / TYPE2 / TYPE3 | |
| ELECTRICAL | | |
| Power Requirements | AC 220-240, 50 Hz/60 Hz | |
| Power Consumption | 710 W | |
| Power off condition | 0.4 W | |
| Stand-by condition | Save OFF 1.2 W, Save ON 0.7 W | |

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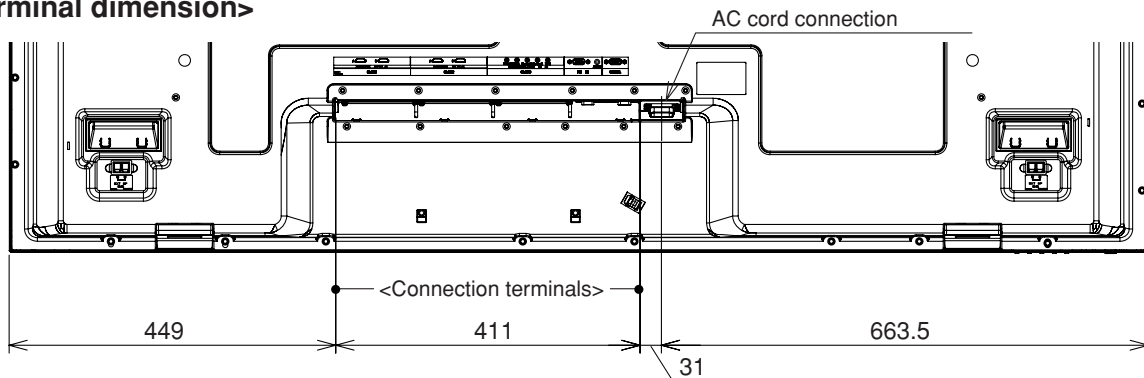
| MECHANICAL | |
|--|--|
| Dimensions (W x H x D) | 1,554x 924 x 94 mm |
| Weight | approx. 69.0 Kg |
| Cabinet Color | Black (Aluminum Heirline Finish) |
| ENVIRONMENTAL | |
| Operating environment | |
| Temperature | 0 °C - 40 °C |
| Humidity | 20 % - 80 % (Non condensation) |
| Altitude | 0 - 2,800 m |
| Storage environment | |
| Temperature | -20 °C - 60 °C |
| Humidity | 20 % - 90 % (Non condensation) |
| Altitude | 0 - 3,300 m |
| RADIATION REGULATIONS | |
| EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3 | |
| SAFETY STANDARDS | |
| EN60065 Ver.7 | |
| REMOTE CONTROL TRANSMITTER | |
| Power Requirements | DC 3V (2 x R6 (UM3) Battery) |
| Operation distance | approx. 7 m in front of plasma display |
| Weight | approx. 170 g including batteries |
| INCLUDED ACCESSORIES | |
| <ul style="list-style-type: none"> • Remote control transmitter • Batteries • Fixing Band x 1 • AC Power cord • Operating instruction book | |
| OPTIONAL ACCESSORIES | |
| <ul style="list-style-type: none"> • Wall-hanging bracket (vertical, angled) • Pedestal • DVI-D Terminal board • IR Terminal board • Dual HDMI Terminal Board • Component Terminal board • HD-SDI(with Audio)Terminal Board • HD-SDI Terminal Board • Dual Link HD-SDI Terminal Board | |

■ **Dimensions** (Shown with optional Pedestal stand)

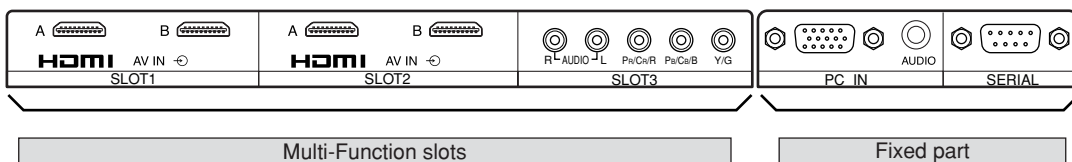
Units : inches (mm)



<Terminal dimension>



<Connection terminals>



Preset Input Signals

| Signal name | horizontal frequency (kHz) | vertical frequency (Hz) | Optional Function Board | | | | | | | PC IN(D-sub 15-pin) Fixed Terminal | |
|------------------------|----------------------------|-------------------------|--------------------------------|--------------------------------|-----------------|-----------------|-----------------------------|------------------------|----------------------|------------------------------------|---|
| | | | Component Video(BNC) TY-42TM6A | Component Video(RCA) TY-42TM6Z | DVI-D TY-FB11DD | HD-SDI TY-FB9HD | HD-SDI with Audio TY-FB10HD | Dual HD-SDI TY-FB11DHD | Dual HDMI TY-FB10HMD | | |
| Composite | NTSC | 15.73 | 59.94 | | | | | | | | |
| | PAL | 15.63 | 50.00 | | | | | | | | |
| | PAL60 | 15.73 | 59.94 | | | | | | | | |
| | SECAM | 15.63 | 50.00 | | | | | | | | |
| | Modified NTSC | 15.73 | 59.94 | | | | | | | | |
| Component / RGB | 525(480)/60i | 15.73 | 59.94 | Y | Y | | Y | Y | | | Y |
| | 525(480)/60p | 31.47 | 59.94 | Y | Y | Y | | | | Y | Y |
| | 625(575)/50i | 15.63 | 50.00 | Y | Y | | Y | Y | | | Y |
| | 625(575)/50p | 31.25 | 50.00 | Y | Y | | | | | | Y |
| | 625(576)/50p | 31.25 | 50.00 | | | Y | | | | Y | Y |
| | 750(720)/60p | 45.00 | 60.00 | Y | Y | Y | Y | Y | Y | Y | Y |
| | 750(720)/50p | 37.50 | 50.00 | Y | Y | Y | Y | Y | Y | Y | Y |
| | 1125(1080)/60i | 33.75 | 60.00 | 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 |
| | 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 | | Y |
| | 1125(1080)/25p | 28.13 | 25.00 | Y | Y | Y | Y | Y | Y | | Y |
| | 1125(1080)/24p | 27.00 | 24.00 | Y | Y | 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 |
| | 2048(1080)/24p | 27.00 | 24.00 | | | | | | Y | | |
| | 2048(1080)/24sF | 27.00 | 48.00 | | | | | | Y | | |
| RGB | 640×400@70Hz | 31.46 | 70.07 | Y | Y | | | | | | Y |
| | 640×480@60Hz | 31.47 | 59.94 | Y | Y | Y | | | | Y | Y |
| | 640×480@72Hz | 37.86 | 72.81 | Y | Y | | | | | | Y |
| | 640×480@75Hz | 37.50 | 75.00 | Y | Y | | | | | | Y |
| | 640×480@85Hz | 43.27 | 85.01 | Y | Y | | | | | | Y |
| | 800×600@56Hz | 35.16 | 56.25 | Y | Y | | | | | | Y |
| | 800×600@60Hz | 37.88 | 60.32 | Y | Y | Y | | | | | Y |
| | 800×600@72Hz | 48.08 | 72.19 | Y | Y | | | | | | Y |
| | 800×600@75Hz | 46.88 | 75.00 | Y | Y | | | | | | Y |
| | 800×600@85Hz | 53.67 | 85.06 | Y | Y | | | | | | Y |
| | 852×480@60Hz | 31.47 | 59.94 | Y | Y | Y | | | | | Y |
| | 1024×768@50Hz | 39.55 | 50.00 | | | Y | | | | | |
| | 1024×768@60Hz | 48.36 | 60.00 | Y | Y | Y | | | | | Y |
| | 1024×768@70Hz | 56.48 | 70.07 | Y | Y | | | | | | Y |
| | 1024×768@75Hz | 60.02 | 75.03 | Y | Y | | | | | | Y |
| | 1024×768@85Hz | 68.68 | 85.00 | Y | Y | | | | | | Y |
| | 1066×600@60Hz | 37.64 | 59.94 | Y | Y | Y | | | | | Y |
| | 1152×864@60Hz | 53.70 | 60.00 | | | Y | | | | | |
| | 1152×864@75Hz | 67.50 | 75.00 | Y | Y | | | | | | Y |
| | 1280×768@60Hz | 47.70 | 60.00 | Y | Y | | | | | | Y |
| | 1280×960@60Hz | 60.00 | 60.00 | Y | Y | | | | | | Y |
| | 1280×960@85Hz | 85.94 | 85.00 | Y | Y | | | | | | Y |
| | 1280×1024@60Hz | 63.98 | 60.02 | Y | Y | Y | | | | | Y |
| | 1280×1024@75Hz | 79.98 | 75.03 | Y | Y | | | | | | Y |
| | 1280×1024@85Hz | 91.15 | 85.02 | Y | Y | | | | | | Y |
| | 1366×768@50Hz | 39.55 | 50.00 | | | Y | | | | | |
| | 1366×768@60Hz | 48.36 | 60.00 | Y | Y | Y | | | | | Y |
| | 1400×1050@60Hz | 65.22 | 60.00 | | | Y | | | | | |
| | 1600×1200@60Hz | 75.00 | 60.00 | Y | Y | Y | | | | | Y |
| | 1600×1200@85Hz | 81.25 | 65.00 | Y | Y | | | | | | Y |
| | 1920×1080@60Hz | 67.50 | 60.00 | Y | Y | Y | | | | | Y |
| | 1920×1200@60Hz | 74.04 | 59.95 | | | Y | | | | | |
| | Mac13" (640×480) | 35.00 | 66.67 | Y | Y | | | | | | Y |
| | Mac16" (832×624) | 49.72 | 74.54 | Y | Y | | | | | | Y |
| | Mac21" (1152×870) | 68.68 | 75.06 | Y | Y | | | | | | Y |

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



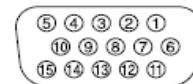
Pin Assignment and Signal Name

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

Transmitting Conditions

| Signal Level | RS232C compliant |
|------------------------|------------------|
| 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 | +5V DC |
| 10 | GND (Ground) |
| 11 | NC (Not connected) |
| 12 | SDA |
| 13 | HD/SYNC |
| 14 | VD |
| 15 | SCL |