

---

## S P E C F I L E

---

Product Number : **PT-VZ570**

Product Name : LCD Projectors

## Specifications

## Main unit

|                                           |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply                              |                | AC 120 V, 50/60 Hz (North America),<br>AC 110 V, 60 Hz (Taiwan),<br>AC 100–240 V, 50/60 Hz (other countries)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Power consumption                         |                | 372 W (North America),<br>378 W (Taiwan),<br>378 W (other countries)<br>0.2 W when STANDBY MODE set to ECO* <sup>1</sup> (North America),<br>0.2 W when STANDBY MODE set to ECO* <sup>1</sup> (Taiwan),<br>0.4 W when STANDBY MODE set to ECO* <sup>1</sup> (other countries)<br>8 W when STANDBY MODE set to NORMAL<br>(20 W at rated audio output.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LCD panel                                 | Panel size     | 16.3 mm (0.64 inches) diagonal (16:10 aspect ratio)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                           | Display method | Transparent LCD panel (× 3, R/G/B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                           | Drive method   | Active matrix method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                           | Pixels         | 2,304,000 (1,920 × 1,200) × 3, total of 6,912,000 pixels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Lens                                      |                | Manual zoom (1.6×), manual focus,<br>F 1.60–2.12, f 15.30–24.64 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Throw ratio                               |                | 1.1–1.8:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Lamp                                      |                | 270 W UHM lamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Screen size                               |                | 0.76–7.62 m (30–300 inches) diagonally, 16:10 aspect ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Colors                                    |                | Full color (16,777,216 colors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Brightness* <sup>2</sup>                  |                | 4,800 lumens<br>(Input signals: PC, Lamp power: Normal, Picture mode: Dynamic)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Center-to-corner uniformity* <sup>2</sup> |                | 85%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contrast* <sup>2</sup>                    |                | 1,000:1 (full on/off, Input signals: PC, Lamp power: Normal,<br>Picture mode: Dynamic, Iris: on)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Resolution                                |                | WUXGA 1,920 × 1,200 pixels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Scanning frequency                        | HDMI           | 480i (525i)* <sup>3</sup> , 576i (625i)* <sup>3</sup> , 480p (525p), 576p (625p), 720 (750)/60p,<br>720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p,<br>1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p,<br>1080 (1125)/50p<br>VGA (640 × 480)–WUXGA (1,920 × 1,200), VESA CVT-RB compliant<br>dot clock: 25–162 MHz, HDCP compatible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                           | RGB            | f <sub>H</sub> : 15–91 kHz, f <sub>V</sub> : 24–100 Hz, dot clock: 162 MHz or lower                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                           | YPbPr (YCbCr)  | 480i (525i): f <sub>H</sub> 15.73 kHz; f <sub>V</sub> 59.94 Hz,<br>576i (625i): f <sub>H</sub> 15.63 kHz; f <sub>V</sub> 50 Hz,<br>480p (525p): f <sub>H</sub> 31.47 kHz; f <sub>V</sub> 59.94 Hz,<br>576p (625p): f <sub>H</sub> 31.25 kHz; f <sub>V</sub> 50 Hz,<br>720 (750)/60p: f <sub>H</sub> 45.00 kHz; f <sub>V</sub> 60 Hz,<br>720 (750)/50p: f <sub>H</sub> 37.50 kHz; f <sub>V</sub> 50 Hz,<br>1080 (1125)/60i: f <sub>H</sub> 33.75 kHz; f <sub>V</sub> 60 Hz,<br>1080 (1125)/50i: f <sub>H</sub> 28.13 kHz; f <sub>V</sub> 50 Hz,<br>1080 (1125)/25p: f <sub>H</sub> 28.13 kHz; f <sub>V</sub> 25 Hz,<br>1080 (1125)/24p: f <sub>H</sub> 27.00 kHz; f <sub>V</sub> 24 Hz,<br>1080 (1125)/24sF: f <sub>H</sub> 27.00 kHz; f <sub>V</sub> 48 Hz,<br>1080 (1125)/30p: f <sub>H</sub> 33.75 kHz; f <sub>V</sub> 30 Hz,<br>1080 (1125)/60p: f <sub>H</sub> 67.50 kHz; f <sub>V</sub> 60 Hz,<br>1080 (1125)/50p: f <sub>H</sub> 56.25 kHz; f <sub>V</sub> 50 Hz |
|                                           | Video/S-Video  | f <sub>H</sub> : 15.73 kHz/15.63 kHz, f <sub>V</sub> : 59.94 Hz/50 Hz<br>[NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Optical axis shift                        |                | Vertical 0 – +40% from center of screen (manual), U/D ratio on top end: 17:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Keystone correction range                 |                | Vertical: maximum ±25° (auto/manual, input: WUXGA),<br>Horizontal: maximum ±30° (manual, input: WUXGA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Installation                              |                | Ceiling/desk, front/rear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Built-in speaker                          | Size           | 4 cm (1-9/16 inches) (round) × 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                           | Output power   | 10 W (monaural)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                            |                       |                                                                                                                         |
|----------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Terminals                  | HDMI IN               | HDMI 19-pin × 2, Deep Color, HDCP compatible                                                                            |
|                            | COMPUTER 1 IN         | Audio signals: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)                                                  |
|                            | R, G, B               | D-sub HD 15-pin (female) × 1                                                                                            |
|                            |                       | G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms;                                                                          |
|                            |                       | B, R: 0.7 Vp-p, 75 ohms;                                                                                                |
|                            |                       | HD/SYNC TTL high impedance, automatic positive/negative polarity compatible                                             |
|                            |                       | VD TTL high impedance, automatic positive/negative polarity compatible                                                  |
|                            | Y, Pb (Cb), Pr (Cr)   | Y: 1.0 Vp-p (including sync signal);                                                                                    |
|                            |                       | Pb (Cb), Pr (Cr): 0.7 Vp-p, 75 ohms                                                                                     |
|                            | S-VIDEO               | Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms                                                                                     |
|                            | COMPUTER 2 IN / 1 OUT | D-sub HD 15-pin (female) × 1, (input/output switching)                                                                  |
|                            | R, G, B               | G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms;                                                                          |
|                            |                       | B, R: 0.7 Vp-p, 75 ohms;                                                                                                |
|                            |                       | HD/SYNC TTL high impedance, automatic positive/negative polarity compatible                                             |
|                            |                       | VD TTL high impedance, automatic positive/negative polarity compatible                                                  |
|                            | Y, Pb (Cb), Pr (Cr)   | Y: 1.0 Vp-p (including sync signal);                                                                                    |
|                            |                       | Pb (Cb), Pr (Cr): 0.7 Vp-p, 75 ohms                                                                                     |
|                            | VIDEO IN              | Pin jack × 1, 1.0 Vp-p, 75 ohms                                                                                         |
|                            | AUDIO IN 1            | M3 (L, R) × 1, 0.5 Vrms, input impedance: 22 kilohms or more                                                            |
|                            | AUDIO IN 2 / MIC IN   | M3 (L, R) × 1, 0.5 Vrms, input impedance: 22 kilohms or more                                                            |
|                            | AUDIO IN 3            | Pin jack (L, R) × 1, 0.5 Vrms, input impedance: 22 kilohms or more                                                      |
|                            | AUDIO OUT             | M3 (L, R) × 1 (monitor out, stereo)                                                                                     |
|                            |                       | 0–2.0 Vrms, variable, output impedance: 22 kilohms or less                                                              |
|                            | SERIAL IN             | D-sub 9-pin (female) × 1, for external control (RS-232C compliant)                                                      |
|                            | LAN                   | RJ-45 × 1, for network connection, 100BASE-TX / 10BASE-TX, compliant with PLink™)                                       |
| Power cord length          |                       | 2.0 m* (6 ft 7 in)                                                                                                      |
|                            |                       | *PT-VZ570D(for India) : 3.0 m (9 ft 10 in)                                                                              |
| Cabinet materials          |                       | Molded plastic                                                                                                          |
| Dimensions (W × H × D)     |                       | 389 × 125*4 × 332*5 mm                                                                                                  |
|                            |                       | (15-5/16 × 4-29/32*4 × 13-1/16*5 inches)                                                                                |
| Weight*6                   |                       | Approx. 4.8 kg (10.6 lbs)                                                                                               |
| Operation noise*2          |                       | 37 dB (LAMP POWER: NORMAL), 29 dB (LAMP POWER: ECO)                                                                     |
| Operating temperature      |                       | 0–40 °C (32–104 °F) (altitude: less than 1200 m)                                                                        |
|                            |                       | 0–30 °C (32–86 °F) (altitude: 1,200 m–2,700 m)                                                                          |
|                            |                       | * When the ambient operating temperature is 35–40 °C (95–104 °F), [Lamp Power] will switch automatically to [Eco mode]. |
| Operating humidity         |                       | 20%–80% (no condensation)                                                                                               |
| <b>Remote control unit</b> |                       |                                                                                                                         |
| Power supply               |                       | 3 V DC (R03/LR03/AAA type battery × 2)                                                                                  |
| Operation range*7          |                       | Approx. 7 m (23 ft) when operated from directly in front of the signal receptor                                         |
| Dimensions (W × H × D)     |                       | 44 × 105 × 20.5 mm (1-23/32 × 4-1/8 × 13/16 inches)                                                                     |
| Weight                     |                       | Approx. 63 g (2.2 oz) (including batteries)                                                                             |

**Supplied accessories**

Wireless remote control unit (x 1)  
Power cord (2 m\*) (x 1)  
\*PT-VZ570D(for India) : 3.0 m  
Software CD-ROM (Operating instructions,  
Multi Projector Monitoring and Control Software,  
Logo Transfer Software) (x 1)  
Batteries for remote control (R03/LR03/AAA type x 2)  
Computer cable (1.8 m) (x 1)  
Lens cap (x 1)

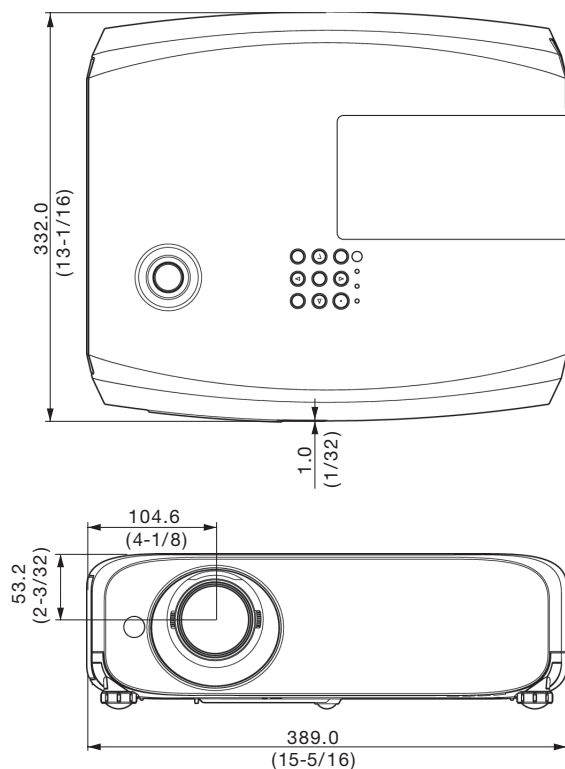
**Optional accessories**

|                                  |                                |
|----------------------------------|--------------------------------|
| Ceiling mount bracket            | ET-PKL100H (for high ceilings) |
| Ceiling mount bracket            | ET-PKL100S (for low ceilings)  |
| Projector Mount Bracket          | ET-PKV400B                     |
| Replacement lamp unit            | ET-LAV400                      |
| Replacement filter unit          | ET-RFV400                      |
| Early Warning Software           | ET-SWA100                      |
| D-SUB - S Video conversion cable | ET-ADSV                        |

Weights and dimensions shown are approximate. Specifications subject to change without notice.

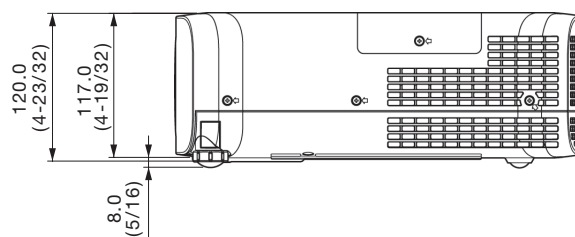
- \*1 When the Standby mode is set to Eco, network functions such as power on over the LAN network will not operate. Also, only certain commands can be received for external control using the serial terminal.
- \*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- \*3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)
- \*4 With legs at shortest position.
- \*5 Include protruding parts.
- \*6 Average value. May differ depending on models.
- \*7 Operation range differs depending on environments.

## Dimensions

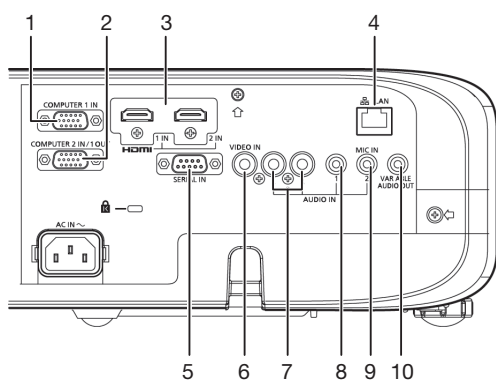


unit : mm (inch)

NOTE: This illustration is not drawn to scale.

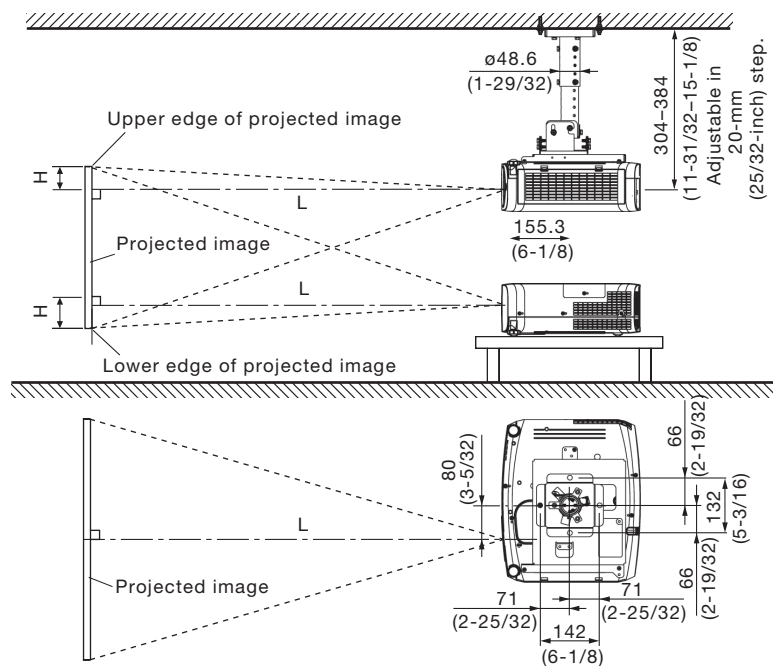


## Terminals



- 1 Computer 1 input
- 2 Computer 2 input / computer 1 output
- 3 HDMI input
- 4 LAN connector
- 5 Serial input
- 6 Video input
- 7 Audio input 3
- 8 Audio input 1
- 9 Audio input 2
- 10 Audio output

## Standard setting-up position



## NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKL400H and projector mount bracket ET-PKV400B.

This illustration is not drawn to scale.

## Caution:

- All construction work should be done by a qualified technician.
- When mounting to the ceiling, use the special mounting bracket. To prevent the projector from dropping, attach the wire that is included with the projector between the mounting bracket and the ceiling.

## Projection distance for 16:10 aspect ratio screen

unit: meters (feet)

| Projection size<br>[diagonal] | Projection distance [L] |                 | Height from the edge of screen<br>to center of lens [H] |
|-------------------------------|-------------------------|-----------------|---------------------------------------------------------|
|                               | Min [wide]              | Max [telephoto] |                                                         |
| 0.76 m / 30"                  | 0.7 (2.2)               | 1.1 (3.7)       | 0.02 – 0.20 (0.07 – 0.66)                               |
| 1.02 m / 40"                  | 0.9 (3.0)               | 1.5 (4.9)       | 0.03 – 0.27 (0.10 – 0.88)                               |
| 1.27 m / 50"                  | 1.2 (3.8)               | 1.9 (6.2)       | 0.04 – 0.34 (0.12 – 1.11)                               |
| 1.52 m / 60"                  | 1.4 (4.6)               | 2.3 (7.5)       | 0.05 – 0.40 (0.15 – 1.33)                               |
| 1.78 m / 70"                  | 1.6 (5.4)               | 2.7 (8.7)       | 0.05 – 0.47 (0.17 – 1.55)                               |
| 2.03 m / 80"                  | 1.9 (6.2)               | 3.0 (10.0)      | 0.06 – 0.54 (0.20 – 1.77)                               |
| 2.29 m / 90"                  | 2.1 (6.9)               | 3.4 (11.2)      | 0.07 – 0.61 (0.22 – 1.99)                               |
| 2.54 m / 100"                 | 2.4 (7.7)               | 3.8 (12.5)      | 0.08 – 0.67 (0.25 – 2.21)                               |
| 3.05 m / 120"                 | 2.8 (9.3)               | 4.6 (15.0)      | 0.09 – 0.81 (0.30 – 2.65)                               |
| 3.81 m / 150"                 | 3.5 (11.6)              | 5.7 (18.8)      | 0.11 – 1.01 (0.37 – 3.31)                               |
| 5.08 m / 200"                 | 4.7 (15.5)              | 7.6 (25.1)      | 0.15 – 1.35 (0.49 – 4.42)                               |
| 6.35 m / 250"                 | 5.9 (19.4)              | 9.6 (31.4)      | 0.19 – 1.68 (0.61 – 5.52)                               |
| 7.62 m / 300"                 | 7.1 (23.3)              | 11.5 (37.7)     | 0.22 – 2.02 (0.73 – 6.62)                               |

## NOTE:

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

## Projection distance for 16:9 aspect ratio screen

unit: meters (feet)

| Projection size<br>[diagonal] | Projection distance [L] |                 | Height from the edge of screen<br>to center of lens [H] |
|-------------------------------|-------------------------|-----------------|---------------------------------------------------------|
|                               | Min [wide]              | Max [telephoto] |                                                         |
| 0.76 m / 30"                  | 0.7 (2.3)               | 1.2 (3.8)       | 0.00 – 0.19 (0.01 – 0.61)                               |
| 1.02 m / 40"                  | 1.0 (3.1)               | 1.5 (5.1)       | 0.00 – 0.25 (0.01 – 0.82)                               |
| 1.27 m / 50"                  | 1.2 (3.9)               | 1.9 (6.4)       | 0.00 – 0.31 (0.01 – 1.02)                               |
| 1.52 m / 60"                  | 1.4 (4.7)               | 2.3 (7.7)       | 0.01 – 0.37 (0.02 – 1.23)                               |
| 1.78 m / 70"                  | 1.7 (5.5)               | 2.7 (8.9)       | 0.01 – 0.44 (0.02 – 1.43)                               |
| 2.03 m / 80"                  | 1.9 (6.3)               | 3.1 (10.2)      | 0.01 – 0.50 (0.02 – 1.63)                               |
| 2.29 m / 90"                  | 2.2 (7.1)               | 3.5 (11.5)      | 0.01 – 0.56 (0.02 – 1.84)                               |
| 2.54 m / 100"                 | 2.4 (7.9)               | 3.9 (12.8)      | 0.01 – 0.62 (0.03 – 2.04)                               |
| 3.05 m / 120"                 | 2.9 (9.6)               | 4.7 (15.4)      | 0.01 – 0.75 (0.03 – 2.45)                               |
| 3.81 m / 150"                 | 3.6 (12.0)              | 5.9 (19.3)      | 0.01 – 0.93 (0.04 – 3.06)                               |
| 5.08 m / 200"                 | 4.9 (16.0)              | 7.8 (25.7)      | 0.02 – 1.25 (0.05 – 4.08)                               |
| 6.35 m / 250"                 | 6.1 (20.0)              | 9.8 (32.2)      | 0.02 – 1.56 (0.06 – 5.11)                               |
| 7.62 m / 300"                 | 7.3 (24.0)              | 11.8 (38.7)     | 0.02 – 1.87 (0.08 – 6.13)                               |

## NOTE:

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

## Projection distance for 4:3 aspect ratio screen

unit: meters (feet)

| Projection size<br>[diagonal] | Projection distance [L] |                 | Height from the edge of screen<br>to center of lens [H] |
|-------------------------------|-------------------------|-----------------|---------------------------------------------------------|
|                               | Min [wide]              | Max [telephoto] |                                                         |
| 0.76 m / 30"                  | 0.8 (2.6)               | 1.3 (4.2)       | 0.03 – 0.23 (0.08 – 0.75)                               |
| 1.02 m / 40"                  | 1.0 (3.4)               | 1.7 (5.6)       | 0.03 – 0.31 (0.11 – 1.00)                               |
| 1.27 m / 50"                  | 1.3 (4.3)               | 2.1 (7.0)       | 0.04 – 0.38 (0.14 – 1.25)                               |
| 1.52 m / 60"                  | 1.6 (5.2)               | 2.6 (8.4)       | 0.05 – 0.46 (0.17 – 1.50)                               |
| 1.78 m / 70"                  | 1.9 (6.1)               | 3.0 (9.9)       | 0.06 – 0.53 (0.19 – 1.75)                               |
| 2.03 m / 80"                  | 2.1 (7.0)               | 3.4 (11.3)      | 0.07 – 0.61 (0.22 – 2.00)                               |
| 2.29 m / 90"                  | 2.4 (7.8)               | 3.9 (12.7)      | 0.08 – 0.69 (0.25 – 2.25)                               |
| 2.54 m / 100"                 | 2.7 (8.7)               | 4.3 (14.1)      | 0.09 – 0.76 (0.28 – 2.50)                               |
| 3.05 m / 120"                 | 3.2 (10.5)              | 5.2 (17.0)      | 0.10 – 0.91 (0.33 – 3.00)                               |
| 3.81 m / 150"                 | 4.0 (13.1)              | 6.5 (21.3)      | 0.13 – 1.14 (0.42 – 3.75)                               |
| 5.08 m / 200"                 | 5.4 (17.6)              | 8.6 (28.4)      | 0.17 – 1.52 (0.55 – 5.00)                               |
| 6.35 m / 250"                 | 6.7 (22.0)              | 10.8 (35.5)     | 0.21 – 1.91 (0.70 – 6.25)                               |
| 7.62 m / 300"                 | 8.0 (26.4)              | 13.0 (42.6)     | 0.25 – 2.29 (0.83 – 7.50)                               |

## NOTE:

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

## Calculation of the projection distance

For a screen size different from the above, use the equation below to calculate the projection distance.

Aspect ratio 16:10

minimum  $L (m) = (\text{diagonal screen size in inches}) \times 0.0238 - 0.0294$

maximum  $L (m) = (\text{diagonal screen size in inches}) \times 0.0384 - 0.0319$

Aspect ratio 16:9

minimum  $L (m) = (\text{diagonal screen size in inches}) \times 0.0245 - 0.0294$

maximum  $L (m) = (\text{diagonal screen size in inches}) \times 0.0394 - 0.0319$

Aspect ratio 4:3

minimum  $L (m) = (\text{diagonal screen size in inches}) \times 0.0269 - 0.0294$

maximum  $L (m) = (\text{diagonal screen size in inches}) \times 0.0434 - 0.0319$

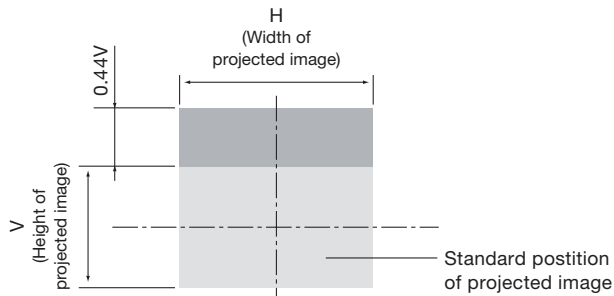
## NOTE:

Distances calculated with the above equations will include a slight error.

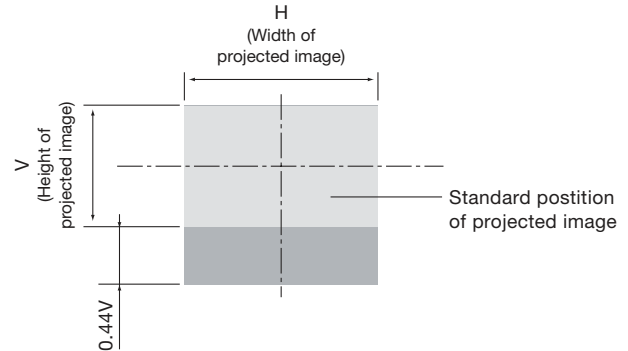
## Shift range

Optical axis shift function allows to shift the position of a projected image as shown below.

### • Floor mount



### • Ceiling mount

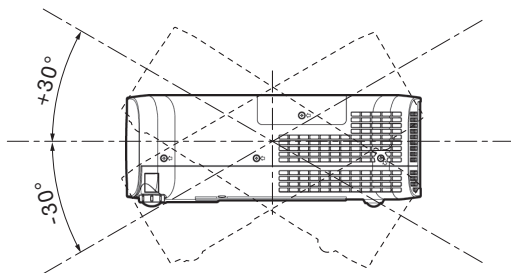


## Installable angle

Install the projector at an angle within the range shown below.

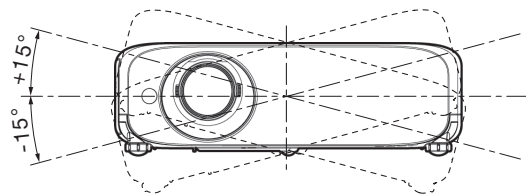
### • Vertical direction

The projector may be installed at a vertical angle of  $30^\circ$ .



### • Horizontal direction

The projector may be installed at a horizontal angle of  $15^\circ$ .





## List of compatible signals

The signals that can be input to this projector are shown in the table below. Horizontal scanning frequencies of 15 kHz to 91 kHz, vertical scanning frequencies of 24 Hz to 100 Hz, and a dot clock of 162 MHz maximum can be input.

**NOTE:** The native resolution of this projector is 1,920 x 1200 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

| Display mode              | Display resolution (dots)*1 | Scanning frequency |         | Dot clock frequency (MHz) | Format         |
|---------------------------|-----------------------------|--------------------|---------|---------------------------|----------------|
|                           |                             | H (kHz)            | V (kHz) |                           |                |
| NTSC/NTSC4.43/PAL-M/PAL60 | 720 x 480i                  | 15.7               | 59.9    | –                         | VIDEO          |
| PAL/PAL-N/SECAM           | 720 x 576i                  | 15.6               | 50.0    | –                         |                |
| 525i (480i)               | 720 x 480                   | 15.7               | 59.9    | 13.5                      | RGB/YCbCr      |
| 625i (576i)               | 720 x 576i                  | 15.6               | 50.0    | 13.5                      |                |
| 525i (480i)               | 720 (1440) x 480i*2         | 15.7               | 59.9    | 27.0                      | HDMI           |
| 625i (576i)               | 720 (1440) x 576i*2         | 15.6               | 50.0    | 27.0                      |                |
| 525p (480p)               | 720 x 483                   | 31.5               | 59.9    | 27.0                      | RGB/YPbPr/HDMI |
| 625p (576p)               | 720 x 576                   | 31.3               | 50.0    | 27.0                      |                |
| 750 (720)/60p             | 1280 x 720                  | 45.0               | 60.0    | 74.3                      |                |
| 750 (720)/50p             |                             | 37.5               | 50.0    | 74.3                      |                |
| 1125 (1080)/60i*3         | 1920 x 1080i                | 33.8               | 60.0    | 74.3                      |                |
| 1125 (1080)/50i           |                             | 28.1               | 50.0    | 74.3                      |                |
| 1125 (1080)/24p           | 1920 x 1080                 | 27.0               | 24.0    | 74.3                      |                |
| 1125 (1080)/24sF          | 1920 x 1080i                | 27.0               | 48.0    | 74.3                      |                |
| 1125 (1080)/25p           | 1920 x 1080                 | 28.1               | 25.0    | 74.3                      |                |
| 1125 (1080)/30p           |                             | 33.8               | 30.0    | 74.3                      |                |
| 1125 (1080)/60p           |                             | 67.5               | 60.0    | 148.5                     |                |
| 1125 (1080)/50p           |                             | 56.3               | 50.0    | 148.5                     |                |
| 640 x 400                 | 640 x 400                   | 31.5               | 70.1    | 25.2                      | RGB/HDMI       |
|                           |                             | 37.9               | 85.1    | 31.5                      |                |
| VGA                       | 640 x 480                   | 31.5               | 59.9    | 25.2                      |                |
|                           |                             | 35.0               | 66.7    | 30.2                      |                |
|                           |                             | 37.9               | 72.8    | 31.5                      |                |
|                           |                             | 37.5               | 75.0    | 31.5                      |                |
|                           |                             | 43.3               | 85.0    | 36.0                      |                |
| SVGA                      | 800 x 600                   | 35.2               | 56.3    | 36.0                      |                |
|                           |                             | 37.9               | 60.3    | 40.0                      |                |
|                           |                             | 48.1               | 72.2    | 50.0                      |                |
|                           |                             | 46.9               | 75.0    | 49.5                      |                |
|                           |                             | 53.7               | 85.1    | 56.3                      |                |
| MAC16                     | 832 x 624                   | 49.7               | 74.6    | 57.3                      |                |
| XGA                       | 1024 x 768                  | 39.6               | 50.0    | 51.9                      |                |
|                           |                             | 48.4               | 60.0    | 65.0                      |                |
|                           |                             | 56.5               | 70.1    | 75.0                      |                |
|                           |                             | 60.0               | 75.0    | 78.8                      |                |
|                           |                             | 65.5               | 81.6    | 86.0                      |                |
|                           |                             | 68.7               | 85.0    | 94.5                      |                |
|                           |                             | 81.4               | 100.0   | 113.3                     |                |
| 1152 x 864                | 1152 x 864                  | 53.7               | 60.0    | 81.6                      |                |
|                           |                             | 67.5               | 74.9    | 108.0                     |                |
|                           |                             | 77.1               | 85.0    | 119.7                     |                |
| MAC21                     | 1152 x 870                  | 68.7               | 75.1    | 100.0                     |                |
| 1280 x 720                | 1280 x 720                  | 37.1               | 50.0    | 60.5                      |                |
|                           |                             | 44.8               | 60.0    | 74.5                      |                |

\*1 The "i" appearing after the resolution indicates an interlaced signal.

\*2 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)

\*3 When a 1125 (1035)/60i signal was input, it is displayed as a 1125 (1080)/60i signal.

| Display mode | Display resolution (dots)*1 | Scanning frequency |         | Dot clock frequency (MHz) | Format   |
|--------------|-----------------------------|--------------------|---------|---------------------------|----------|
|              |                             | H (kHz)            | V (kHz) |                           |          |
| 1280 x 768   | 1280 x 768                  | 60.3               | 74.9    | 102.3                     | RGB/HDMI |
|              |                             | 68.6               | 84.8    | 117.5                     |          |
| 1280 x 800   | 1280 x 800                  | 41.3               | 50.0    | 68.0                      |          |
|              |                             | 49.7               | 59.8    | 83.5                      |          |
|              |                             | 62.8               | 74.9    | 106.5                     |          |
|              |                             | 71.6               | 84.9    | 122.5                     |          |
| 1280 x 960   | 1280 x 960                  | 60.0               | 60.0    | 108.0                     |          |
| SXGA         | 1280 x 1024                 | 64.0               | 60.0    | 108.0                     |          |
|              |                             | 80.0               | 75.0    | 135.0                     |          |
|              |                             | 91.1               | 85.0    | 157.5                     |          |
| 1366 x 768   | 1366 x 768                  | 39.6               | 49.9    | 69.0                      |          |
|              |                             | 47.7               | 59.8    | 85.5                      |          |
| 1400 x 1050  | 1400 x 1050                 | 65.2               | 60.0    | 122.6                     |          |
|              |                             | 65.3               | 60.0    | 121.8                     |          |
|              |                             | 82.2               | 75.0    | 156.0                     |          |
| 1440 x 900   | 1440 x 900                  | 55.9               | 60.0    | 106.5                     |          |
| 1600 x 900   | 1600 x 900                  | 46.3               | 50.0    | 97.0                      |          |
|              |                             | 55.9               | 60.0    | 119.0                     |          |
| UXGA         | 1600 x 1200                 | 75.0               | 60.0    | 162.0                     |          |
| 1680 x 1050  | 1680 x 1050                 | 54.1               | 50.0    | 119.5                     |          |
|              |                             | 65.3               | 60.0    | 146.3                     |          |
| 1920 x 1080  | 1920 x 1080                 | 55.6               | 49.9    | 141.5                     |          |
|              | 1920 x 1080*2               | 66.6               | 59.9    | 138.5                     |          |
|              | 1920 x 1080*3               | 67.2               | 60.0    | 173.0                     |          |
| WUXGA        | 1920 x 1200                 | 61.8               | 49.9    | 158.3                     | RGB      |
|              | 1920 x 1200*2               | 74.0               | 60.0    | 154.0                     | RGB/HDMI |
|              | 1920 x 1200*3               | 74.6               | 59.9    | 193.3                     | RGB      |
|              |                             |                    |         |                           |          |

\*1 The "i" appearing after the resolution indicates an interlaced signal.

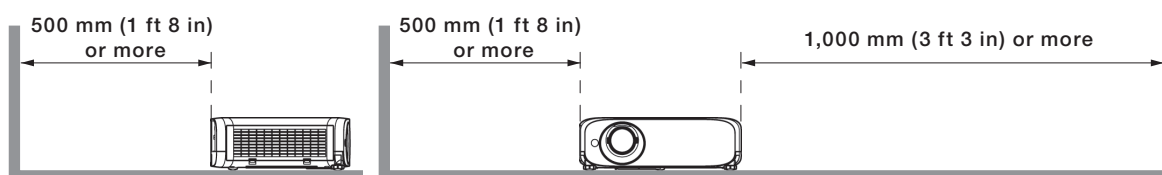
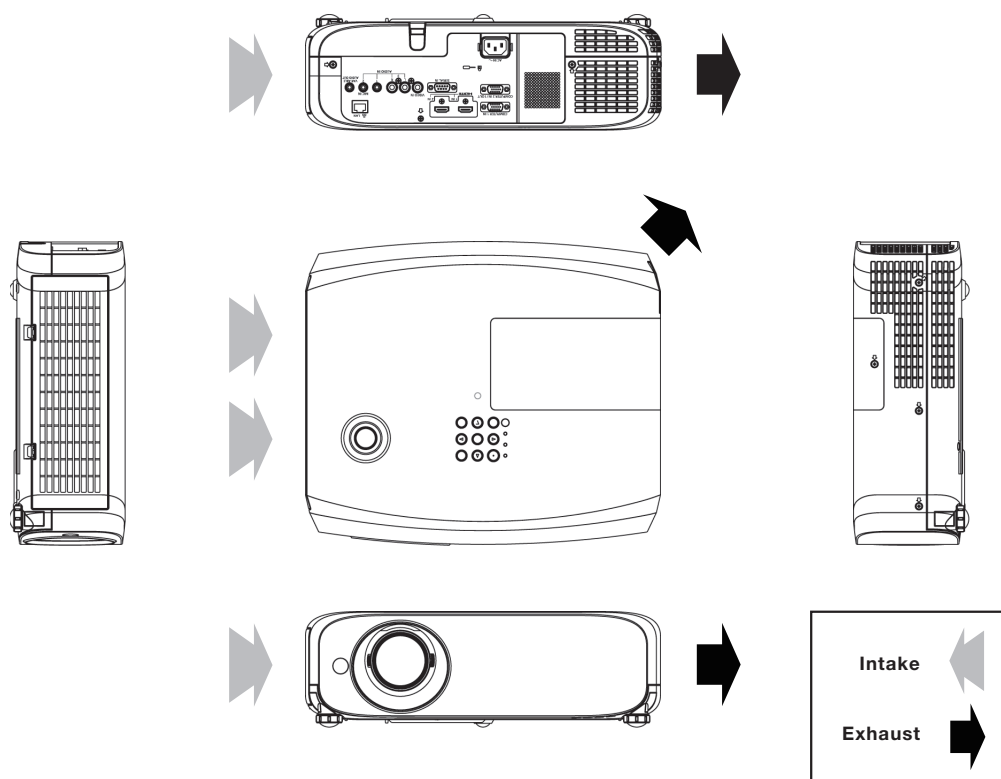
\*2 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

\*3 The image processing circuit reduces the number of pixels to display images.

**Notes on projector placement and operation**

The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

1. Never place objects on top of the projector while it is operating.
2. Make sure there is the unobstructed space as shown below or more around the projector's exhaust openings. In addition to this space, also ensure that there is a sufficient work space for removing and installing the lamp, filter and other parts.
3. Make sure that nothing blocks the projector's air intake and exhaust openings. Also, install the projector so that cool or hot air from other air conditioning equipment does not flow directly toward the projector's air intake or exhaust openings.
4. Do not install the projector in an enclosed space. If it is necessary to install it in an enclosed space, add a separate ventilation system. If ventilation is insufficient, hot air will accumulate at the intake opening. This may cause the projector's protective circuit to interrupt projector operation.

**Direction of air intake and exhaust**

**Operating the projector continuously**

1. If the projector is to be operated continuously 12 hours or more, lamp replacement cycle duration becomes shorter.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods (one hour or less).

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice.  
Product availability differs depending on region and country. This product may be subject to export control regulations.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.  
PJLink is a registered trademark, or a trademark application has been filed, in Japan, the United States, and other countries and regions.  
All other trademarks are the property of their respective trademark owners.