

## Specifications

## Main unit

|                                                        |                                         |                                                                                          |                                                                                                                                                                                                                                                     |
|--------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply                                           |                                         |                                                                                          | AC 100V-240V, 50Hz/60Hz                                                                                                                                                                                                                             |
| Power consumption <sup>1</sup>                         | Maximum power consumption               |                                                                                          | 305 W (3.1-1.3A) (310VA) (The power consumption is 295 W at 200-240V)                                                                                                                                                                               |
|                                                        | On-mode power consumption (Light power) | [Normal]                                                                                 | 270 W (100-120 V), 255 W (200-240 V)                                                                                                                                                                                                                |
|                                                        |                                         | [Eco]                                                                                    | 195 W (100-120 V), 185 W (200-240 V)                                                                                                                                                                                                                |
|                                                        |                                         | [QUIET]                                                                                  | 190 W (100-120 V), 180 W (200-240 V)                                                                                                                                                                                                                |
|                                                        | Standby mode power consumption          | [Normal]                                                                                 | 15 W<br>When [IN STANDBY MODE] in [AUDIO SETTING] is set to [OFF], [QUICK STARTUP] is set to [OFF], and <DC OUT> terminal is not in use.                                                                                                            |
| [Eco]                                                  |                                         | 0.5 W                                                                                    |                                                                                                                                                                                                                                                     |
| BTU value                                              |                                         |                                                                                          | Max 1,045 BTU                                                                                                                                                                                                                                       |
| LCD panel                                              | Size                                    |                                                                                          | 16.3 mm [0.64 in] diagonal (16:10 aspect ratio)                                                                                                                                                                                                     |
|                                                        | Display system                          |                                                                                          | Transparent LCD panel (x 3, R/G/B)                                                                                                                                                                                                                  |
|                                                        | Number of pixels                        |                                                                                          | 2,304,000 (1920 x 1200)                                                                                                                                                                                                                             |
| Refresh rate                                           |                                         |                                                                                          | 60 Hz Refresh rate varies depending on scanning frequency.                                                                                                                                                                                          |
| Light source                                           |                                         |                                                                                          | Laser Diode                                                                                                                                                                                                                                         |
| Light output <sup>1</sup>                              | Light Power                             | [Normal]                                                                                 | 5,200 lm<br>[PICTURE MODE] is set to [DYNAMIC], [DAYLIGHT VIEW] is set to [OFF], [AUTO POWER SAVE] is set to [OFF]                                                                                                                                  |
|                                                        |                                         | [Eco/Quiet]                                                                              | 3,640 lm                                                                                                                                                                                                                                            |
| Time until light output declines to 50% <sup>2</sup>   | Light Power                             | [Normal/Quiet]                                                                           | 20,000 hours                                                                                                                                                                                                                                        |
|                                                        |                                         | [ECO]                                                                                    | 24,000 hours                                                                                                                                                                                                                                        |
| Filter Replacement Cycle                               |                                         |                                                                                          | 20,000 hours (Under the dust conditions of 0.08mg/m <sup>3</sup> )<br>10,000 hours (Under the dust conditions of 0.15mg/m <sup>3</sup> )<br>Filter can be washed and reused up to two times. Filter cleaning cycle varies depending on environment. |
| Resolution                                             |                                         |                                                                                          | 1920 x 1200 pixels<br>(Input signals that exceed this resolution will be converted to 1920 x 1200 pixels.)                                                                                                                                          |
| Contrast ratio <sup>1</sup>                            |                                         |                                                                                          | 3,000,000:1 (All White/All Black)<br>When [PICTURE MODE] is set to [DYNAMIC], [DYNAMIC CONTRAST] is set to [1]                                                                                                                                      |
| Screen size                                            |                                         |                                                                                          | 0.76-7.62 m [30-300 in], 16:10 aspect ratio                                                                                                                                                                                                         |
| Center to corner zone ratio <sup>1</sup>               |                                         |                                                                                          | 85%                                                                                                                                                                                                                                                 |
| Lens                                                   |                                         |                                                                                          | 1.6x Manual zoom (Optical) (Throw ratio:1.09-1.77:1)<br>Manual focus lens, F-1.60-2.12, f=15.30-24.64 mm                                                                                                                                            |
| Digital Zoom Extender <sup>3</sup>                     |                                         |                                                                                          | Throw Ratio 1.09:1 - 2.21:1 <sup>4</sup> (Corresponding value) (When optical zoom is used together.)                                                                                                                                                |
| Lens shift (from the origin point of the lens mounter) |                                         |                                                                                          | Vertical +44%, Horizontal ±20%                                                                                                                                                                                                                      |
| Installation                                           |                                         |                                                                                          | Ceiling/floor, front/rear, free 360-degree installation                                                                                                                                                                                             |
| Maximum usable volume output                           |                                         |                                                                                          | 10W (monaural)                                                                                                                                                                                                                                      |
| Compatible Signal                                      | RGB signal input                        |                                                                                          | Resolution: 640 x 400 to 1920 × 1200<br>Dot clock frequency: 162 MHz or less<br>PIAS (Panasonic Intelligent Auto Scanning) system                                                                                                                   |
|                                                        | YCbCr/YPbPr signal input                |                                                                                          | Resolution: 480i <sup>5</sup> /576i <sup>5</sup> to 1920 x 1080<br>Dot clock frequency: 148.5 MHz or less<br>The HD/SYNC and VD terminals do not support 3 value SYNC.                                                                              |
|                                                        | HDMI signal input                       |                                                                                          | Moving image signal resolution: 480i <sup>5</sup> /576i <sup>5</sup> to 4096 x 2160<br>Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace)<br>Dot clock frequency: 25 MHz to 297 MHz                                            |
|                                                        | DIGITAL LINK signal input               |                                                                                          | Moving image signal resolution: 480i/576i to 4096 x 2160<br>Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace)<br>Dot clock frequency: 25 MHz to 297 MHz                                                                       |
| Terminals                                              | HDMI 1 IN/ 2 IN                         |                                                                                          | HDMI-19 pin x 2<br>Deep Color, compatible with HDCP 1.4, 4K/30p signal input <sup>6</sup> , CEC supported <sup>7</sup><br>Audio Signal: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)                                                     |
|                                                        | COMPUTER 1 IN / 2 IN                    |                                                                                          | D-sub 15pin (female) x 2                                                                                                                                                                                                                            |
|                                                        |                                         | RGB                                                                                      | 0.7 V [p-p], 75 ohms (1.0 V [p-p], 75 ohms for sync on G)<br>HD/SYNC, VD: TTL, high impedance, positive/negative automatic                                                                                                                          |
|                                                        |                                         | YPbPr                                                                                    | Y: 1.0 V [p-p], including sync signal, Pb/Pr (Cb/Cr): 0.7 V [p-p], 75 ohms                                                                                                                                                                          |
|                                                        | AUDIO 1 IN/ 2 IN                        |                                                                                          | M3 stereo mini-jack x 2    0.5 V [rms], input Impedance 22 k Ohms and more                                                                                                                                                                          |
|                                                        | VARIABLE AUDIO OUT                      |                                                                                          | M3 stereo mini-jack x 1    0 V [rms] to 2.0 V [rms] variable, output Impedance 2.2 k ohms and less                                                                                                                                                  |
|                                                        | SERIAL IN                               |                                                                                          | D-sub 9-pin (female) x 1    for computer control (RS-232C compliant)                                                                                                                                                                                |
| LAN                                                    |                                         | RJ-45 x 1<br>for network control, 10Base-T, 100Base-TX, compatible with PLink™ (Class 2) |                                                                                                                                                                                                                                                     |

|                                     |                                   |                                                                                                                                                                                                                    |
|-------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminals                           | DIGITAL LINK/LAN                  | RJ-45 x 1<br>for network and DIGITAL LINK connection, HDBase-T™ compliant, 100Base-TX, compatible with PJLink™ (Class 2), HDCP 1.4, Deep Color, 4K/30p signal input <sup>6</sup>                                   |
|                                     | USB (VIEWER/WIRELESS/DC OUT)      | USB connector (Type A) x 1<br>for Memory Viewer function, optional Wireless Module AJ-WM50, power supply (DC 5 V, maximum 2 A)                                                                                     |
| Supported Internet Protocol version |                                   | IPv4, IPv6 <sup>8</sup>                                                                                                                                                                                            |
| Power cord length                   |                                   | India and North/Middle/South America: 3.0 m [9 ft 10 in]<br>Other countries or regions: 2.0 m [6 ft 7 in]                                                                                                          |
| Cabinet materials                   |                                   | Molded plastic                                                                                                                                                                                                     |
| Dimensions (W x H x D) <sup>9</sup> |                                   | 399 x 133 x 348 mm [15-23/32 x 5-1/4 x 13-11/16 in]                                                                                                                                                                |
| Weight <sup>10</sup>                |                                   | Approx. 6.5 kg (14.3 lbs)                                                                                                                                                                                          |
| Operating noise <sup>1</sup>        |                                   | 36 dB (NORMAL/ECO)<br>26 dB (QUIET)                                                                                                                                                                                |
| Laser Classification                | Laser Class                       | Class 1 (IEC/EN 60825-1:2014)                                                                                                                                                                                      |
|                                     | Risk Group                        | Risk Group 2 (IEC 62471-5:2015)                                                                                                                                                                                    |
| Operating environment               | Operating environment temperature | 0 °C (32 °F) to 45 °C (113 °F) <sup>11</sup><br>The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) when the optional Wireless Module (Model No.: AJ-WM50 Series) is attached. |
|                                     | Operating environment humidity    | 20% to 80% (no condensation)                                                                                                                                                                                       |

## Remote control unit

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Power supply           | 3V DC (AAA/R03/LR03 battery x 2)                                               |
| Operation range        | Approx. 30 m [98 ft 5 in] (when operated directly in front of signal receptor) |
| Dimensions (W x H x D) | 48 x 145 x 27 mm [1-7/8 x 5-23/32 x 1-1/16 in]                                 |
| Weight <sup>10</sup>   | Approx. 102 g (3.60 ozs.) including batteries                                  |

## Supplied accessories

- Wireless remote control unit (x 1)
- Power cord (x 2 for Europe and Asia model/ x 1 for other countries)
- Batteries for remote control (R03/AAA type x 2)
- Lens cap (x 1)
- Strap (x 1)

## Other Applications

- Multi Monitoring and Control Software (for Windows)
- Logo Transfer Software (for Windows)
- Presenter Light Software (for Windows)
- Wireless Projector App (for iOS/Android)

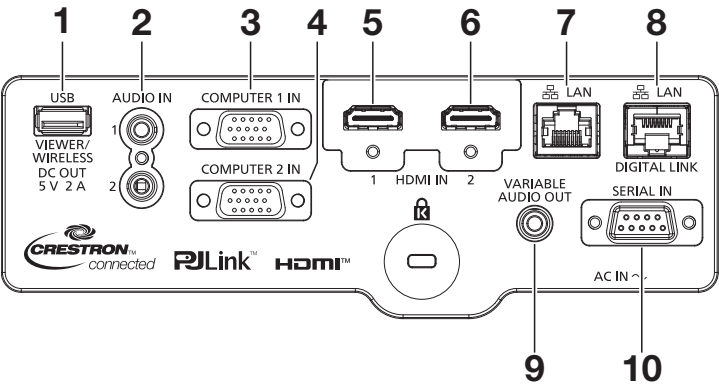
## Optional accessories

|                                            |                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Ceiling Mount Bracket (for high ceilings)  | ET-PKL100H                                                                                                                                      |
| Ceiling Mount Bracket (for low ceilings)   | ET-PKL100S                                                                                                                                      |
| Attachment plate for ceiling mount bracket | ET-PKV400B                                                                                                                                      |
| DIGITAL LINK switcher                      | ET-YFB200G                                                                                                                                      |
| Digital Interface Box                      | ET-YFB100G                                                                                                                                      |
| Replacement Filter Unit                    | ET-RFV500                                                                                                                                       |
| Wireless Module                            | AJ-WM50<br>*The suffix at the end of the model number is omitted.<br>Operating Temperature when attached to the projector: 0-40 °C (32-104 °F). |
| Early Warning Software                     | ET-SWA100 series<br>*The symbol at the end of the part number will vary depending on the type of license.                                       |

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

- 1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.
- 2 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, Dynamic Contrast [2], under conditions with 30 °C (86 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m<sup>3</sup> of particulate matter. Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time varies depending on environment.
- 3 Resolution decreases when using this function. 6-Point Screen Correction, V/H Keystone Correction, and curved-screen correction are not available when using this function, and range of corner adjustment is limited.
- 4 When optical zoom is used together and Digital Zoom Extender is set to 80%.
- 5 Pixel-Repetition signal (dot clock frequency 27.0 MHz) only.
- 6 A signal with different resolution is converted to the number of display dots.
- 7 Depending on the connected CEC-compatible device, the link control may not operate normally.
- 8 Main version of the firmware must be 2.00 or higher. Optional wireless module AJ-WM50 does not support IPv6.
- 9 With legs at shortest position.
- 10 Average value. May differ depending on the actual unit.
- 11 Note that projector cannot be used at altitudes 2,700 m (8,858 ft) or higher above sea level. In the following operating environments, light output may be reduced to protect the projector; when the projector is used at altitudes below 700 m (2,297 ft) and ambient temperature is 36 °C (97 °F) or higher; when the projector is used at altitudes between 700 m (2,297 ft) and 1,400 m (4,593 ft) exclusive and ambient temperature is 34 °C (93 °F) or higher; when the projector is used at altitudes between 1,400 m (4,593 ft) and 2,100 m (6,890 ft) exclusive and ambient temperature is 32 °C (90 °F) or higher; and when the projector is used at altitudes between 2,100 m (6,890 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 30 °C (86 °F) or higher.

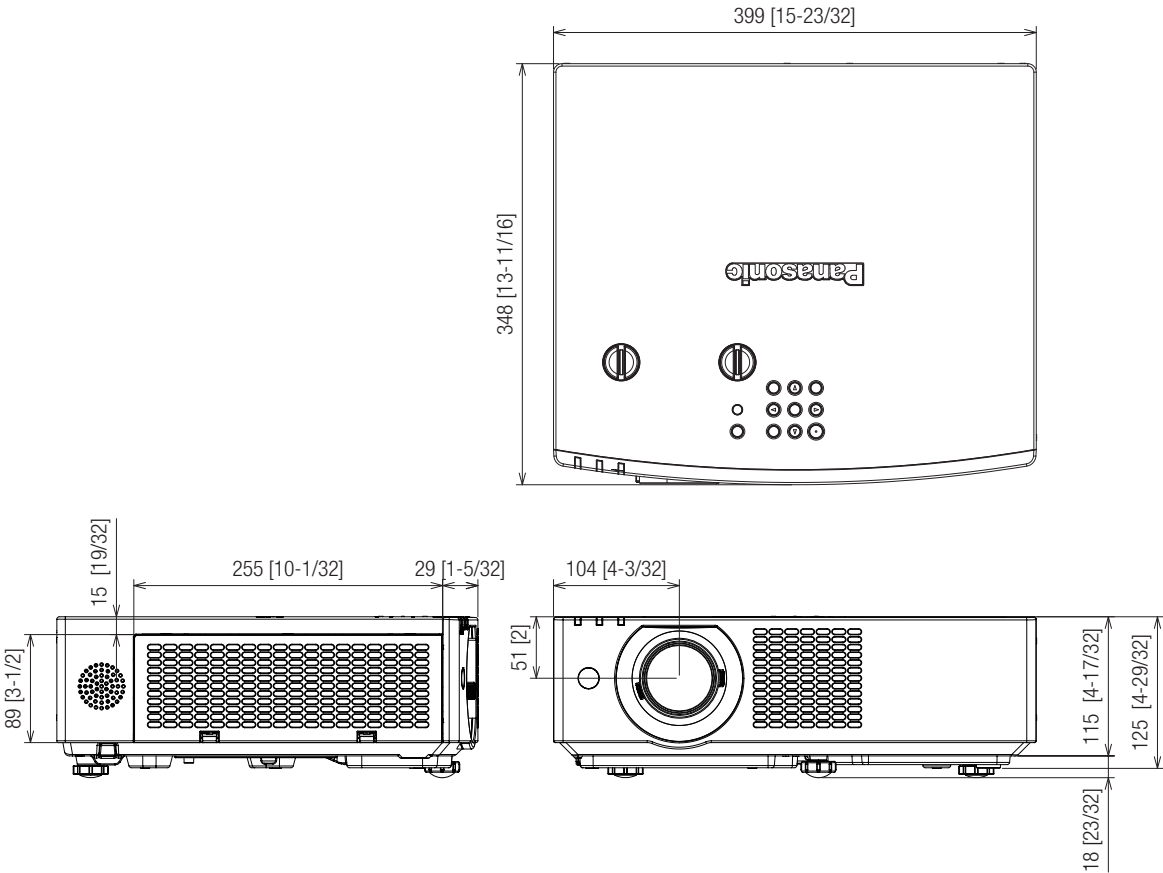
Terminals



|   |                              |    |                    |
|---|------------------------------|----|--------------------|
| 1 | USB (VIEWER/WIRELESS/DC OUT) | 6  | HDMI 2 IN          |
| 2 | AUDIO 1 IN/AUDIO 2 IN        | 7  | LAN                |
| 3 | COMPUTER 1 IN                | 8  | LAN/DIGITAL LINK   |
| 4 | COMPUTER 2 IN                | 9  | VARIABLE AUDIO OUT |
| 5 | HDMI 1 IN                    | 10 | SERIAL IN          |

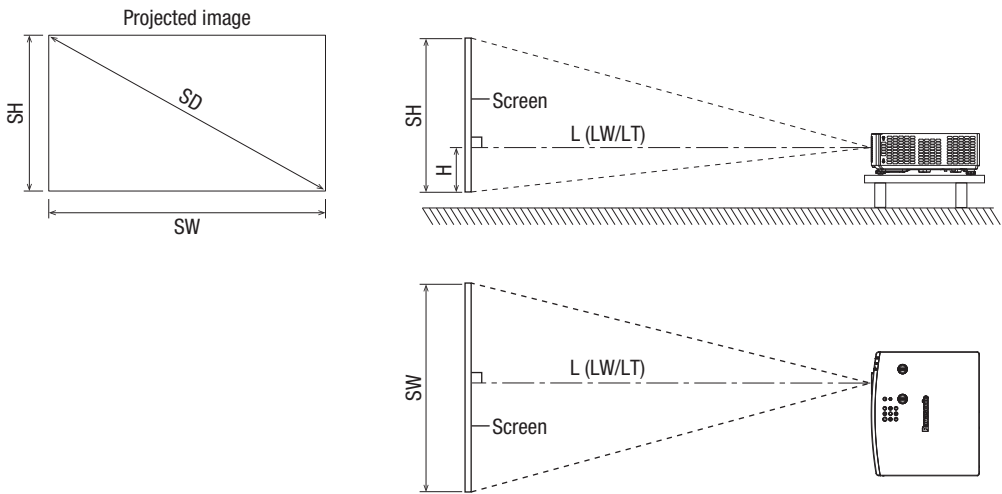
Dimensions

unit : mm [inch]  
NOTE: This illustration is not drawn to scale.



Projected image and throw distance

Install the projector referring to the projected image size and projection distance. Image size and image position can be adjusted in accordance with the screen size and screen position.



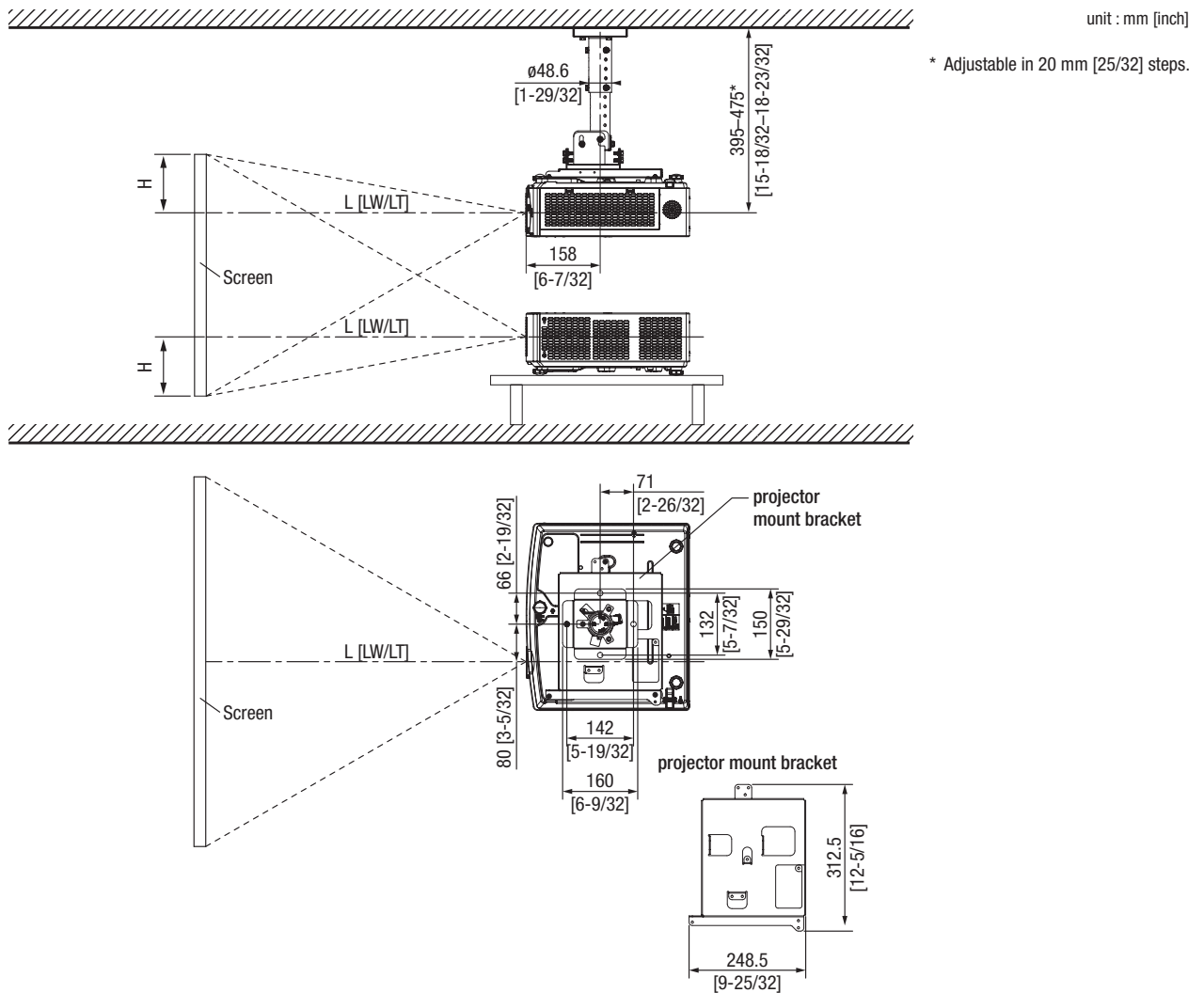
Note

- This illustration is prepared on the assumption that the projected image size and position have been aligned to fit full in the screen.
- This illustration is not drawn to scale.

|    |    |                                                                         |
|----|----|-------------------------------------------------------------------------|
| L  |    | Projection distance                                                     |
|    | LW | Minimum distance                                                        |
|    | LT | Maximum distance                                                        |
| SH |    | Projected image height                                                  |
| SW |    | Projected image width                                                   |
| H  |    | Distance from the lens center to the bottom edge of the projected image |
| SD |    | Projected image size                                                    |

### Standard setting position

Illustrations show the projector installed using optional ceiling mount bracket ET-PKL100H and projector mount bracket ET-PKV400B.



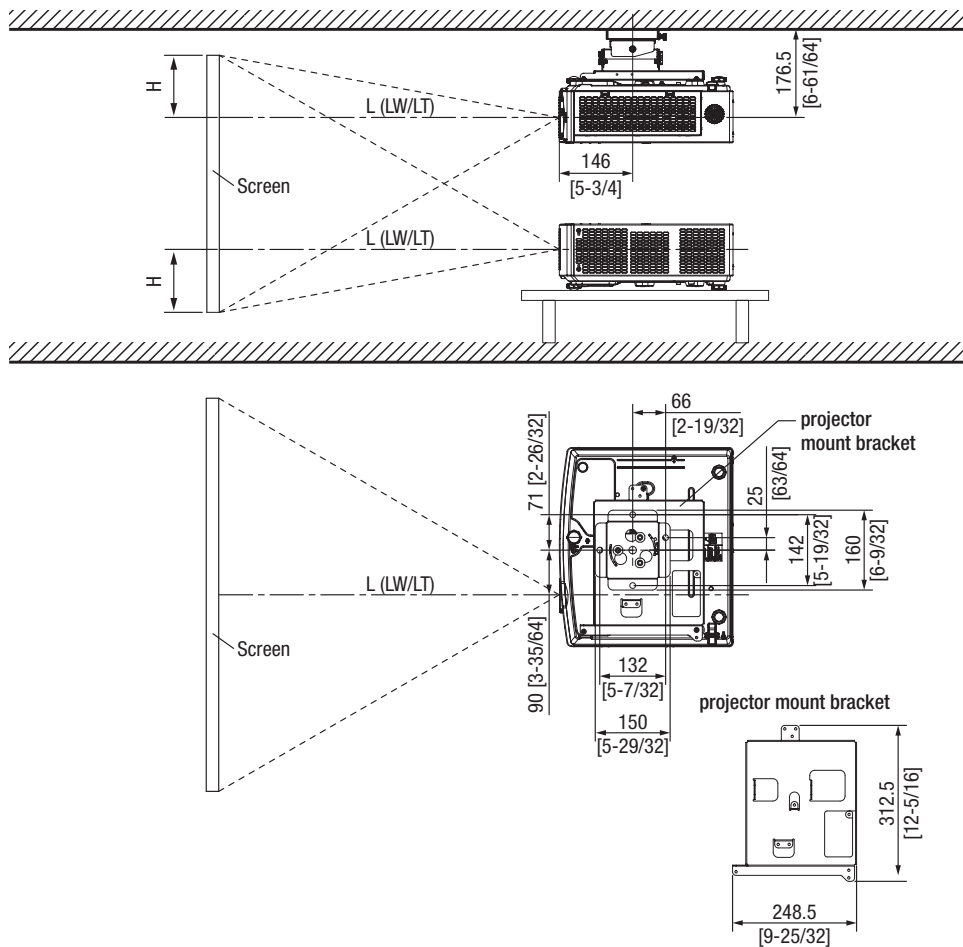
#### Caution

- All construction work should be done by a qualified technician.
- When mounting to the ceiling, use the special mounting bracket.  
Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

#### Note

- This illustration is prepared on the assumption that the projected image size and position have been aligned to fit full in the screen.
- This illustration is not drawn to scale.
- The values are approximate.

Illustrations show the projector installed using optional ceiling mount bracket ET-PKL100S and projector mount bracket ET-PKV400B.



#### Caution

- All construction work should be done by a qualified technician.
- When mounting to the ceiling, use the special mounting bracket.  
Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

#### Note

- This illustration is prepared on the assumption that the projected image size and position have been aligned to fit full in the screen.
- This illustration is not drawn to scale.
- The values are approximate.

**Projection distance**

A  $\pm 5\%$  error in listed projection distances may occur.

When [SCREEN ADJUSTMENT] is used, distance is corrected to become smaller than the specified image size.

Screen aspect ratio 16:10

Unit: meters

|                             |             |            | Optical zoom            |              | Digital Zoom Extender¹             | Height from the edge of screen to center of lens (H)³ |
|-----------------------------|-------------|------------|-------------------------|--------------|------------------------------------|-------------------------------------------------------|
| Throw ratio                 |             |            | 1.09-1.77:1             |              | 1.09-2.21:1² (Corresponding Value) |                                                       |
| Projected image size        |             |            | Projection distance (L) |              |                                    |                                                       |
| Diagonal (SD)<br>inches / m | Height (SH) | Width (SW) | Min.<br>(LW)            | Max.<br>(LT) | Max.<br>(LT)                       |                                                       |
| 30 / 0.76                   | 0.40        | 0.64       | 0.68                    | 1.12         | 1.40                               | 0.022 - 0.201                                         |
| 40 / 1.02                   | 0.54        | 0.86       | 0.93                    | 1.51         | 1.89                               | 0.030 - 0.270                                         |
| 50 / 1.27                   | 0.67        | 1.08       | 1.16                    | 1.89         | 2.37                               | 0.037 - 0.337                                         |
| 60 / 1.52                   | 0.81        | 1.29       | 1.39                    | 2.26         | 2.84                               | 0.045 - 0.403                                         |
| 70 / 1.78                   | 0.94        | 1.51       | 1.64                    | 2.66         | 3.33                               | 0.052 - 0.472                                         |
| 80 / 2.03                   | 1.08        | 1.72       | 1.87                    | 3.03         | 3.80                               | 0.060 - 0.538                                         |
| 90 / 2.29                   | 1.21        | 1.94       | 2.12                    | 3.43         | 4.29                               | 0.067 - 0.607                                         |
| 100 / 2.54                  | 1.35        | 2.15       | 2.35                    | 3.80         | 4.76                               | 0.075 - 0.673                                         |
| 120 / 3.05                  | 1.62        | 2.59       | 2.83                    | 4.57         | 5.73                               | 0.090 - 0.808                                         |
| 150 / 3.81                  | 2.02        | 3.23       | 3.54                    | 5.72         | 7.16                               | 0.112 - 1.010                                         |
| 200 / 5.08                  | 2.69        | 4.31       | 4.73                    | 7.64         | 9.56                               | 0.150 - 1.346                                         |
| 250 / 6.35                  | 3.37        | 5.38       | 5.92                    | 9.56         | 11.96                              | 0.187 - 1.683                                         |
| 300 / 7.62                  | 4.04        | 6.46       | 7.11                    | 11.48        | 14.35                              | 0.224 - 2.019                                         |

1 The display resolution decreases when the Digital Zoom Extender function is used. In addition, the 6-point correction, keystone correction and curved correction functions cannot be used, and the adjustable range of corner correction is reduced.

2 When optical zoom is used together and Digital Zoom Extender is set to 80%.

3 Only for optical zoom

Unit: feet

|                             |             |            | Optical zoom            |              | Digital Zoom Extender <sup>1</sup>             | Height from the edge of screen to center of lens (H) <sup>3</sup> |
|-----------------------------|-------------|------------|-------------------------|--------------|------------------------------------------------|-------------------------------------------------------------------|
| Throw ratio                 |             |            | 1.09-1.77:1             |              | 1.09-2.21:1 <sup>2</sup> (Corresponding Value) |                                                                   |
| Projected image size        |             |            | Projection distance (L) |              |                                                |                                                                   |
| Diagonal (SD)<br>inches / m | Height (SH) | Width (SW) | Min.<br>(LW)            | Max.<br>(LT) | Max.<br>(LT)                                   |                                                                   |
| 30 / 0.76                   | 1.31        | 2.10       | 2.23                    | 3.67         | 4.59                                           | 0.072 - 0.659                                                     |
| 40 / 1.02                   | 1.77        | 2.82       | 3.05                    | 4.95         | 6.20                                           | 0.098 - 0.886                                                     |
| 50 / 1.27                   | 2.20        | 3.54       | 3.81                    | 6.20         | 7.78                                           | 0.121 - 1.106                                                     |
| 60 / 1.52                   | 2.66        | 4.23       | 4.56                    | 7.41         | 9.32                                           | 0.148 - 1.322                                                     |
| 70 / 1.78                   | 3.08        | 4.95       | 5.38                    | 8.73         | 10.93                                          | 0.171 - 1.549                                                     |
| 80 / 2.03                   | 3.54        | 5.64       | 6.14                    | 9.94         | 12.47                                          | 0.197 - 1.765                                                     |
| 90 / 2.29                   | 3.97        | 6.36       | 6.96                    | 11.25        | 14.07                                          | 0.220 - 1.991                                                     |
| 100 / 2.54                  | 4.43        | 7.05       | 7.71                    | 12.47        | 15.62                                          | 0.246 - 2.208                                                     |
| 120 / 3.05                  | 5.31        | 8.50       | 9.28                    | 14.99        | 18.80                                          | 0.295 - 2.651                                                     |
| 150 / 3.81                  | 6.63        | 10.60      | 11.61                   | 18.77        | 23.49                                          | 0.367 - 3.314                                                     |
| 200 / 5.08                  | 8.83        | 14.14      | 15.52                   | 25.07        | 31.36                                          | 0.492 - 4.416                                                     |
| 250 / 6.35                  | 11.06       | 17.65      | 19.42                   | 31.36        | 39.24                                          | 0.614 - 5.522                                                     |
| 300 / 7.62                  | 13.25       | 21.19      | 23.33                   | 37.66        | 47.08                                          | 0.735 - 6.624                                                     |

1 The display resolution decreases when the Digital Zoom Extender function is used. In addition, the 6-point correction, keystone correction and curved correction functions cannot be used, and the adjustable range of corner correction is reduced.

2 When optical zoom is used together and Digital Zoom Extender is set to 80%.

3 Only for optical zoom

Screen aspect ratio 16:9

Unit: meters

|                             |             |            | Optical zoom            |              | Digital Zoom Extender <sup>1</sup>             | Height from the edge of screen to center of lens (H) <sup>3</sup> |
|-----------------------------|-------------|------------|-------------------------|--------------|------------------------------------------------|-------------------------------------------------------------------|
| Throw ratio                 |             |            | 1.09-1.77:1             |              | 1.09-2.21:1 <sup>2</sup> (Corresponding Value) |                                                                   |
| Projected image size        |             |            | Projection distance (L) |              |                                                |                                                                   |
| Diagonal (SD)<br>inches / m | Height (SH) | Width (SW) | Min.<br>(LW)            | Max.<br>(LT) | Max.<br>(LT)                                   |                                                                   |
| 30 / 0.76                   | 0.37        | 0.66       | 0.70                    | 1.15         | 1.44                                           | 0.002 - 0.186                                                     |
| 40 / 1.02                   | 0.50        | 0.89       | 0.95                    | 1.55         | 1.95                                           | 0.003 - 0.250                                                     |
| 50 / 1.27                   | 0.62        | 1.11       | 1.19                    | 1.94         | 2.43                                           | 0.004 - 0.311                                                     |
| 60 / 1.52                   | 0.74        | 1.33       | 1.43                    | 2.33         | 2.92                                           | 0.005 - 0.372                                                     |
| 70 / 1.78                   | 0.87        | 1.55       | 1.69                    | 2.73         | 3.42                                           | 0.005 - 0.436                                                     |
| 80 / 2.03                   | 0.99        | 1.77       | 1.93                    | 3.12         | 3.91                                           | 0.006 - 0.497                                                     |
| 90 / 2.29                   | 1.12        | 2.00       | 2.18                    | 3.52         | 4.41                                           | 0.007 - 0.561                                                     |
| 100 / 2.54                  | 1.24        | 2.21       | 2.42                    | 3.91         | 4.90                                           | 0.008 - 0.622                                                     |
| 120 / 3.05                  | 1.49        | 2.66       | 2.91                    | 4.70         | 5.89                                           | 0.009 - 0.747                                                     |
| 150 / 3.81                  | 1.87        | 3.32       | 3.64                    | 5.88         | 7.36                                           | 0.012 - 0.933                                                     |
| 200 / 5.08                  | 2.49        | 4.43       | 4.86                    | 7.85         | 9.83                                           | 0.015 - 1.245                                                     |
| 250 / 6.35                  | 3.11        | 5.54       | 6.09                    | 9.83         | 12.29                                          | 0.019 - 1.556                                                     |
| 300 / 7.62                  | 3.73        | 6.64       | 7.31                    | 11.80        | 14.75                                          | 0.023 - 1.867                                                     |

<sup>1</sup> The display resolution decreases when the Digital Zoom Extender function is used. In addition, the 6-point correction, keystone correction and curved correction functions cannot be used, and the adjustable range of corner correction is reduced.

<sup>2</sup> When optical zoom is used together and Digital Zoom Extender is set to 80%.

<sup>3</sup> Only for optical zoom

Unit: feet

|                             |             |            | Optical zoom            |              | Digital Zoom Extender¹             | Height from the edge of screen to center of lens (H)³ |
|-----------------------------|-------------|------------|-------------------------|--------------|------------------------------------|-------------------------------------------------------|
| Throw ratio                 |             |            | 1.09-1.77:1             |              | 1.09-2.21:1² (Corresponding Value) |                                                       |
| Projected image size        |             |            | Projection distance (L) |              |                                    |                                                       |
| Diagonal (SD)<br>inches / m | Height (SH) | Width (SW) | Min.<br>(LW)            | Max.<br>(LT) | Max.<br>(LT)                       |                                                       |
| 30 / 0.76                   | 1.21        | 2.17       | 2.30                    | 3.77         | 4.72                               | 0.007 - 0.610                                         |
| 40 / 1.02                   | 1.64        | 2.92       | 3.12                    | 5.09         | 6.40                               | 0.010 - 0.820                                         |
| 50 / 1.27                   | 2.03        | 3.64       | 3.90                    | 6.36         | 7.97                               | 0.013 - 1.020                                         |
| 60 / 1.52                   | 2.43        | 4.36       | 4.69                    | 7.64         | 9.58                               | 0.016 - 1.220                                         |
| 70 / 1.78                   | 2.85        | 5.09       | 5.54                    | 8.96         | 11.22                              | 0.016 - 1.430                                         |
| 80 / 2.03                   | 3.25        | 5.81       | 6.33                    | 10.24        | 12.83                              | 0.020 - 1.631                                         |
| 90 / 2.29                   | 3.67        | 6.56       | 7.15                    | 11.55        | 14.47                              | 0.023 - 1.841                                         |
| 100 / 2.54                  | 4.07        | 7.25       | 7.94                    | 12.83        | 16.08                              | 0.026 - 2.041                                         |
| 120 / 3.05                  | 4.89        | 8.73       | 9.55                    | 15.42        | 19.32                              | 0.030 - 2.451                                         |
| 150 / 3.81                  | 6.14        | 10.89      | 11.94                   | 19.29        | 24.15                              | 0.039 - 3.061                                         |
| 200 / 5.08                  | 8.17        | 14.53      | 15.94                   | 25.75        | 32.25                              | 0.049 - 4.085                                         |
| 250 / 6.35                  | 10.20       | 18.18      | 19.98                   | 32.25        | 40.32                              | 0.062 - 5.105                                         |
| 300 / 7.62                  | 12.24       | 21.78      | 23.98                   | 38.71        | 48.39                              | 0.075 - 6.125                                         |

<sup>1</sup> The display resolution decreases when the Digital Zoom Extender function is used. In addition, the 6-point correction, keystone correction and curved correction functions cannot be used, and the adjustable range of corner correction is reduced.

<sup>2</sup> When optical zoom is used together and Digital Zoom Extender is set to 80%.

<sup>3</sup> Only for optical zoom

Screen aspect ratio 4:3

Unit: meters

|                             |             |            | Optical zoom            |              | Digital Zoom Extender <sup>1</sup>             | Height from the edge of screen to center of lens (H) <sup>3</sup> |
|-----------------------------|-------------|------------|-------------------------|--------------|------------------------------------------------|-------------------------------------------------------------------|
| Throw ratio                 |             |            | 1.31-2.12:1             |              | 1.31-2.66:1 <sup>2</sup> (Corresponding Value) |                                                                   |
| Projected image size        |             |            | Projection distance (L) |              |                                                |                                                                   |
| Diagonal (SD)<br>inches / m | Height (SH) | Width (SW) | Min.<br>(LW)            | Max.<br>(LT) | Max.<br>(LT)                                   |                                                                   |
| 30 / 0.76                   | 0.46        | 0.61       | 0.78                    | 1.27         | 1.59                                           | 0.025 - 0.228                                                     |
| 40 / 1.02                   | 0.61        | 0.82       | 1.05                    | 1.71         | 2.15                                           | 0.034 - 0.306                                                     |
| 50 / 1.27                   | 0.76        | 1.02       | 1.32                    | 2.14         | 2.68                                           | 0.042 - 0.381                                                     |
| 60 / 1.52                   | 0.91        | 1.22       | 1.58                    | 2.57         | 3.22                                           | 0.051 - 0.456                                                     |
| 70 / 1.78                   | 1.07        | 1.42       | 1.86                    | 3.01         | 3.77                                           | 0.059 - 0.534                                                     |
| 80 / 2.03                   | 1.22        | 1.62       | 2.12                    | 3.44         | 4.31                                           | 0.068 - 0.609                                                     |
| 90 / 2.29                   | 1.37        | 1.83       | 2.40                    | 3.88         | 4.86                                           | 0.076 - 0.687                                                     |
| 100 / 2.54                  | 1.52        | 2.03       | 2.67                    | 4.31         | 5.40                                           | 0.085 - 0.762                                                     |
| 120 / 3.05                  | 1.83        | 2.44       | 3.21                    | 5.18         | 6.49                                           | 0.102 - 0.915                                                     |
| 150 / 3.81                  | 2.29        | 3.05       | 4.01                    | 6.48         | 8.11                                           | 0.127 - 1.143                                                     |
| 200 / 5.08                  | 3.05        | 4.06       | 5.36                    | 8.65         | 10.83                                          | 0.169 - 1.524                                                     |
| 250 / 6.35                  | 3.81        | 5.08       | 6.71                    | 10.83        | 13.54                                          | 0.212 - 1.905                                                     |
| 300 / 7.62                  | 4.57        | 6.10       | 8.05                    | 13.00        | 16.25                                          | 0.254 - 2.286                                                     |

<sup>1</sup> The display resolution decreases when the Digital Zoom Extender function is used. In addition, the 6-point correction, keystone correction and curved correction functions cannot be used, and the adjustable range of corner correction is reduced.

<sup>2</sup> When optical zoom is used together and Digital Zoom Extender is set to 80%.

<sup>3</sup> Only for optical zoom

Unit: feet

|                             |             |            | Optical zoom            |              | Digital Zoom Extender¹             | Height from the edge of screen to center of lens (H)³ |
|-----------------------------|-------------|------------|-------------------------|--------------|------------------------------------|-------------------------------------------------------|
| Throw ratio                 |             |            | 1.31-2.12:1             |              | 1.31-2.66:1² (Corresponding Value) |                                                       |
| Projected image size        |             |            | Projection distance (L) |              |                                    |                                                       |
| Diagonal (SD)<br>inches / m | Height (SH) | Width (SW) | Min.<br>(LW)            | Max.<br>(LT) | Max.<br>(LT)                       |                                                       |
| 30 / 0.76                   | 1.51        | 2.00       | 2.56                    | 4.17         | 5.22                               | 0.082 - 0.748                                         |
| 40 / 1.02                   | 2.00        | 2.69       | 3.44                    | 5.61         | 7.05                               | 0.112 - 1.004                                         |
| 50 / 1.27                   | 2.49        | 3.35       | 4.33                    | 7.02         | 8.79                               | 0.138 - 1.250                                         |
| 60 / 1.52                   | 2.99        | 4.00       | 5.18                    | 8.43         | 10.56                              | 0.167 - 1.496                                         |
| 70 / 1.78                   | 3.51        | 4.66       | 6.10                    | 9.88         | 12.37                              | 0.194 - 1.752                                         |
| 80 / 2.03                   | 4.00        | 5.31       | 6.96                    | 11.29        | 14.14                              | 0.223 - 1.998                                         |
| 90 / 2.29                   | 4.49        | 6.00       | 7.87                    | 12.73        | 15.94                              | 0.249 - 2.254                                         |
| 100 / 2.54                  | 4.99        | 6.66       | 8.76                    | 14.14        | 17.72                              | 0.279 - 2.500                                         |
| 120 / 3.05                  | 6.00        | 8.01       | 10.53                   | 16.99        | 21.29                              | 0.335 - 3.002                                         |
| 150 / 3.81                  | 7.51        | 10.01      | 13.16                   | 21.26        | 26.61                              | 0.417 - 3.750                                         |
| 200 / 5.08                  | 10.01       | 13.32      | 17.59                   | 28.38        | 35.53                              | 0.554 - 5.000                                         |
| 250 / 6.35                  | 12.50       | 16.67      | 22.01                   | 35.53        | 44.42                              | 0.696 - 6.250                                         |
| 300 / 7.62                  | 14.99       | 20.01      | 26.41                   | 42.65        | 53.31                              | 0.833 - 7.500                                         |

<sup>1</sup> The display resolution decreases when the Digital Zoom Extender function is used. In addition, the 6-point correction, keystone correction and curved correction functions cannot be used, and the adjustable range of corner correction is reduced.

<sup>2</sup> When optical zoom is used together and Digital Zoom Extender is set to 80%.

<sup>3</sup> Only for optical zoom

### Formula for calculating the projection distance

To use a projected image size not listed in this manual, check the projected image size SD (m) and use the respective formula to calculate the value.

The unit of all the formulae is m. (Values obtained by the following calculation formulae contain a slight error.)

When calculating the value using image size designation (value in inches), multiply the value in inches by 0.0254 and substitute it into SD in the formula.

Unit: m

| Aspect ratio            |                       |              | 16:10                                    | 16:9                                     | 4:3                                      |
|-------------------------|-----------------------|--------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Screen height (SH)      |                       |              | $= 0.530 \times \text{SD}$               | $= 0.490 \times \text{SD}$               | $= 0.6 \times \text{SD}$                 |
| Screen width (SW)       |                       |              | $= 0.848 \times \text{SD}$               | $= 0.872 \times \text{SD}$               | $= 0.8 \times \text{SD}$                 |
| Projection distance (L) | Optical zoom          | Minimum (LW) | $= 0.9371 \times \text{SD} - 0.0294$     | $= 0.9632 \times \text{SD} - 0.0294$     | $= 1.0609 \times \text{SD} - 0.0294$     |
|                         |                       | Maximum (LT) | $= 1.5103 \times \text{SD} - 0.0319$     | $= 1.5523 \times \text{SD} - 0.0319$     | $= 1.7098 \times \text{SD} - 0.0319$     |
|                         | Digital Zoom Extender | Minimum (LW) | $= 0.9371 \times \text{SD} / X - 0.0294$ | $= 0.9632 \times \text{SD} / X - 0.0294$ | $= 1.0609 \times \text{SD} / X - 0.0294$ |
|                         |                       | Maximum (LT) | $= 1.5103 \times \text{SD} / X - 0.0319$ | $= 1.5523 \times \text{SD} / X - 0.0319$ | $= 1.7098 \times \text{SD} / X - 0.0319$ |

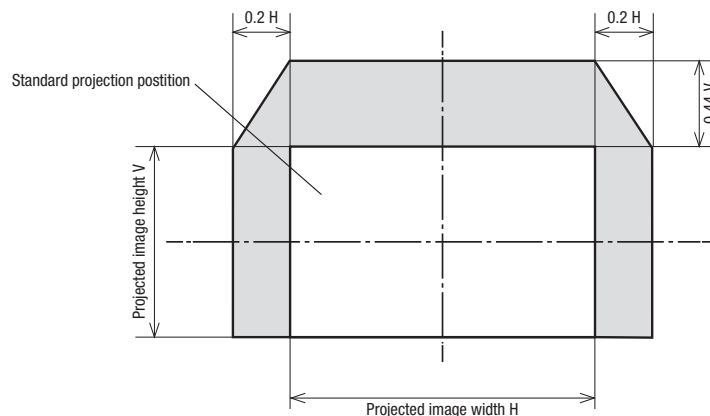
\* X in the formulas represents the setting value of [DIGITAL ZOOM EXTENDER] (100%=1.00, 95%=0.95, 90%=0.90, 85%=0.85, 80%=0.80).

#### Note

- The value for L (distance to screen) varies slightly within  $\pm 5\%$  depending on the zoom lens characteristics.
- When keystone correction is used, the image is corrected in the direction that reduces its projected size.

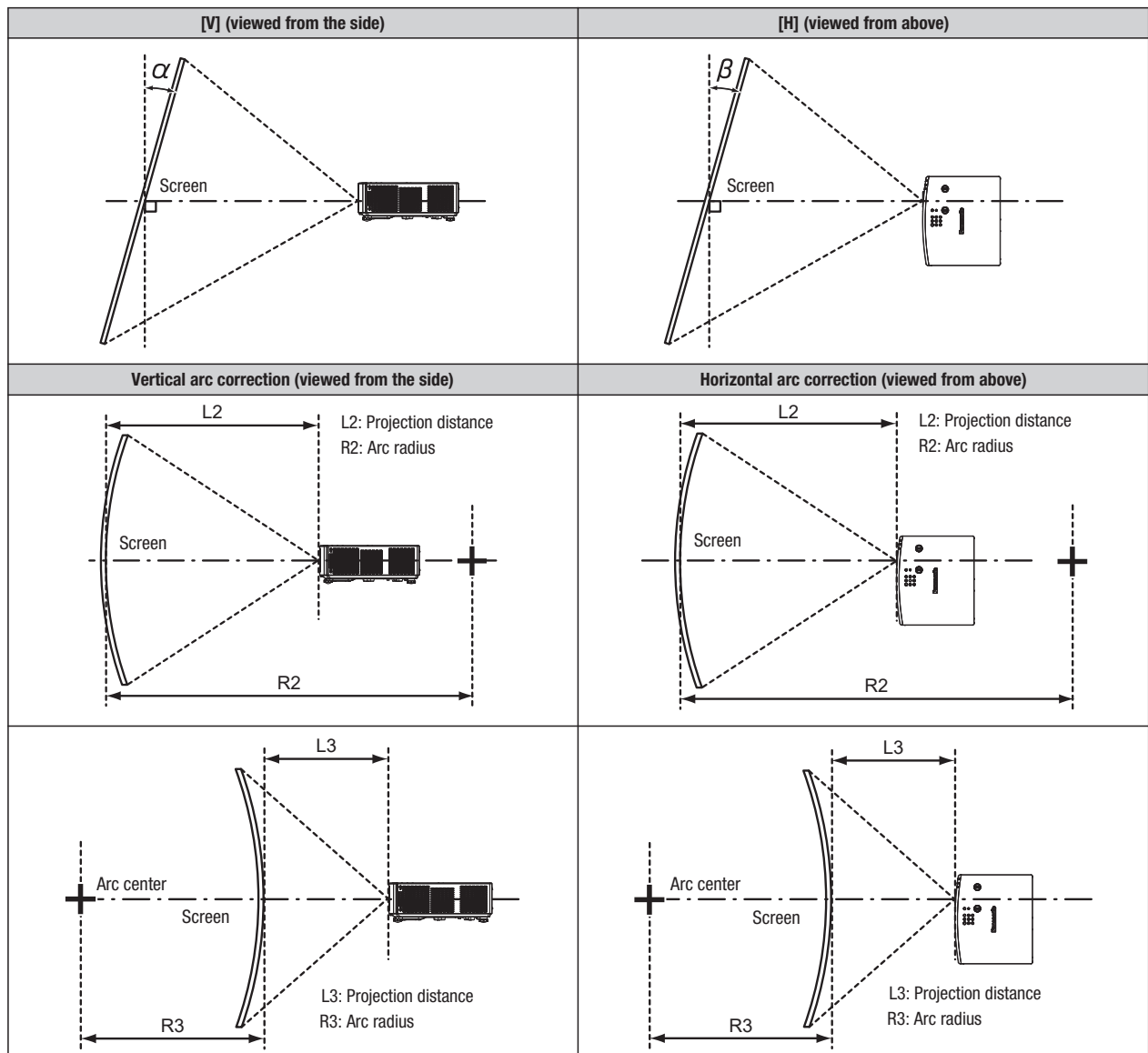
### Lens shift range

The projector supports lens shift in horizontal and vertical direction. The following figure shows the lens shift adjustable range in horizontal and vertical direction with reference to the standard projection position.



#### Note

- The standard projection position indicates the projection screen position in the state without lens shift adjustment.

**[SCREEN ADJUSTMENT] projection range**

| Model No. | Only [KEystone] used                               |                                                     | [KEystone] and [CURVED CORRECTION] used together   |                                                     |                     |                     | Only [CURVED CORRECTION] used |                     |
|-----------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|---------------------|---------------------|-------------------------------|---------------------|
|           | Vertical keystone correction angle<br>$\alpha$ (°) | Horizontal keystone correction angle<br>$\beta$ (°) | Vertical keystone correction angle<br>$\alpha$ (°) | Horizontal keystone correction angle<br>$\beta$ (°) | Min. value of R2/L2 | Min. value of R3/L3 | Min. value of R2/L2           | Min. value of R3/L3 |
| PT-VMZ51  | ±25                                                | ±35                                                 | ±25                                                | ±35                                                 | 1.4                 | 2.9                 | 0.7                           | 1.6                 |

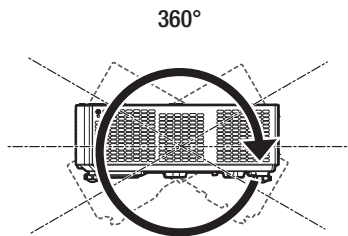
**Note**

- When [SCREEN ADJUSTMENT] is used, the focus may not be able to match the whole screen as correction increases.
- The curved screen should be in the shape of a circular arc part of a perfect circle.

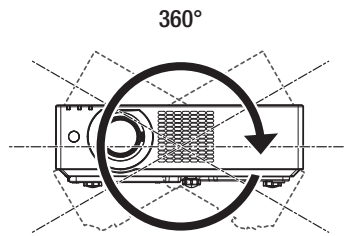
**Installable angle**

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

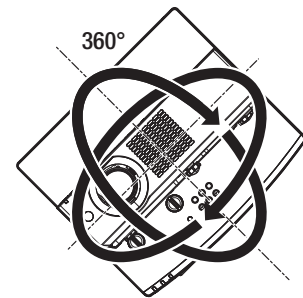
**FULL 360-degree projection**



360° vertically



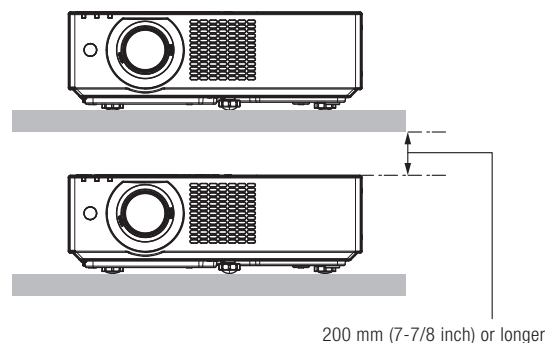
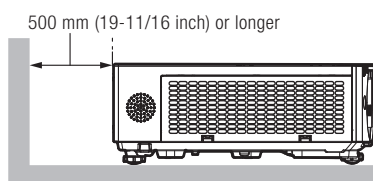
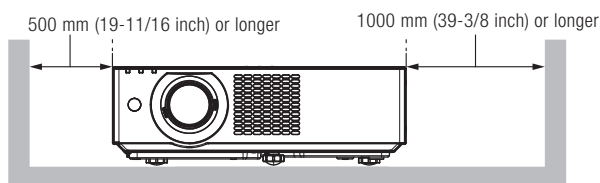
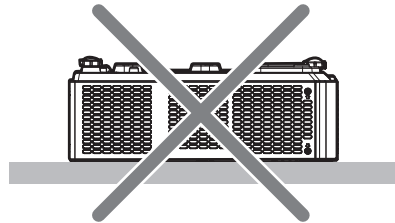
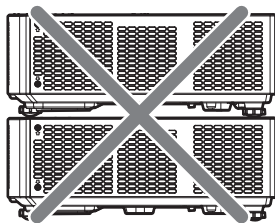
360° horizontally



360° tilted  
(combination of vertical and horizontal)

**Notes on projector placement and operation**

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 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.



## List of compatible signals

The following table specifies the type of signals compatible with the projector.

- Symbols that indicate formats are as follows.

-R: RGB  
 -Y: YCbCr/YPbPr  
 -H: HDMI/DIGITAL LINK

- Input corresponding to each item in the plug and play column is as follows.

-COMPUTER: COMPUTER1 / COMPUTER2 input  
 -HDMI: HDMI1 / HDMI2 input  
 -DIGITAL LINK: DIGITAL LINK input

| Signal type      | Signal name                | Resolution (Dots)             | Scanning freq.   |                   | Dot clock freq. (MHz) | Format | Plug and play correspondence <sup>1</sup> |                   |
|------------------|----------------------------|-------------------------------|------------------|-------------------|-----------------------|--------|-------------------------------------------|-------------------|
|                  |                            |                               | Horizontal (kHz) | Vertical (Hz)     |                       |        | COMPUTER                                  | HDMI/DIGITAL LINK |
| Video signals    | 480 /60i                   | 720 x 480i                    | 15.7             | 59.9              | 13.5                  | R/Y    | —                                         | —                 |
|                  | 576 /50i                   | 720 x 576i                    | 15.6             | 50.0              | 13.5                  | R/Y    | —                                         | —                 |
|                  | 480 /60i                   | 720(1440) x 480i <sup>2</sup> | 15.7             | 59.9              | 27.0                  | H      | —                                         | —                 |
|                  | 576 /50i                   | 720(1440) x 576i <sup>2</sup> | 15.6             | 50.0              | 27.0                  | H      | —                                         | —                 |
|                  | 480 /60p                   | 720 x 480                     | 31.5             | 59.9              | 27.0                  | R/Y/H  | —                                         | ✓                 |
|                  | 576 /50p                   | 720 x 576                     | 31.3             | 50.0              | 27.0                  | R/Y/H  | —                                         | ✓                 |
|                  | 720 /60p                   | 1280 x 720                    | 45.0             | 60.0 <sup>3</sup> | 74.3                  | R/Y/H  | —                                         | ✓                 |
|                  | 720 /50p                   | 1280 x 720                    | 37.5             | 50.0              | 74.3                  | R/Y/H  | —                                         | ✓                 |
|                  | 1080 /60i                  | 1920 x 1080i                  | 33.8             | 60.0 <sup>3</sup> | 74.3                  | R/Y/H  | —                                         | ✓                 |
|                  | 1080 /50i                  | 1920 x 1080i                  | 28.1             | 50.0              | 74.3                  | R/Y/H  | —                                         | ✓                 |
|                  | 1080 /24p                  | 1920 x 1080                   | 27.0             | 24.0 <sup>3</sup> | 74.3                  | R/Y/H  | —                                         | ✓                 |
|                  | 1080 /24sF                 | 1920 x 1080i                  | 27.0             | 48.0 <sup>3</sup> | 74.3                  | R/Y/H  | —                                         | —                 |
|                  | 1080 /25p                  | 1920 x 1080                   | 28.1             | 25.0              | 74.3                  | R/Y/H  | —                                         | —                 |
|                  | 1080 /30p                  | 1920 x 1080                   | 33.8             | 30.0 <sup>3</sup> | 74.3                  | R/Y/H  | —                                         | —                 |
|                  | 1080 /60p                  | 1920 x 1080                   | 67.5             | 60.0 <sup>3</sup> | 148.5                 | R/Y/H  | —                                         | ✓                 |
|                  | 1080 /50p                  | 1920 x 1080                   | 56.3             | 50.0              | 148.5                 | R/Y/H  | —                                         | ✓                 |
|                  | 3840 x 2160/24p            | 3840 x 2160                   | 54.0             | 24.0 <sup>3</sup> | 297.0                 | H      | —                                         | ✓                 |
|                  | 3840 x 2160/25p            | 3840 x 2160                   | 56.3             | 25.0              | 297.0                 | H      | —                                         | ✓                 |
|                  | 3840 x 2160/30p            | 3840 x 2160                   | 67.5             | 30.0 <sup>3</sup> | 297.0                 | H      | —                                         | ✓                 |
|                  | 4096 x 2160/24p            | 4096 x 2160                   | 54.0             | 24.0 <sup>3</sup> | 297.0                 | H      | —                                         | ✓                 |
|                  | 4096 x 2160/25p            | 4096 x 2160                   | 56.3             | 25.0              | 297.0                 | H      | —                                         | ✓                 |
|                  | 4096 x 2160/30p            | 4096 x 2160                   | 67.5             | 30.0 <sup>3</sup> | 297.0                 | H      | —                                         | ✓                 |
| Computer signals | 640 x 400/70               | 640 x 400                     | 31.5             | 70.1              | 25.2                  | R/H    | —                                         | —                 |
|                  | 640 x 400/85               | 640 x 400                     | 37.9             | 85.1              | 31.5                  | R/H    | —                                         | —                 |
|                  | 640 x 480/60               | 640 x 480                     | 31.5             | 59.9              | 25.2                  | R/H    | ✓                                         | ✓                 |
|                  | 640 x 480/67               | 640 x 480                     | 35.0             | 66.7              | 30.2                  | R/H    | —                                         | —                 |
|                  | 640 x 480/73               | 640 x 480                     | 37.9             | 72.8              | 31.5                  | R/H    | ✓                                         | ✓                 |
|                  | 640 x 480/75               | 640 x 480                     | 37.5             | 75.0              | 31.5                  | R/H    | ✓                                         | ✓                 |
|                  | 640 x 480/85               | 640 x 480                     | 43.3             | 85.0              | 36.0                  | R/H    | —                                         | —                 |
|                  | 800 x 600/56               | 800 x 600                     | 35.2             | 56.3              | 36.0                  | R/H    | ✓                                         | ✓                 |
|                  | 800 x 600/60               | 800 x 600                     | 37.9             | 60.3              | 40.0                  | R/H    | ✓                                         | ✓                 |
|                  | 800 x 600/72               | 800 x 600                     | 48.1             | 72.2              | 50.0                  | R/H    | ✓                                         | ✓                 |
|                  | 800 x 600/75               | 800 x 600                     | 46.9             | 75.0              | 49.5                  | R/H    | ✓                                         | ✓                 |
|                  | 800 x 600/85               | 800 x 600                     | 53.7             | 85.1              | 56.3                  | R/H    | —                                         | —                 |
|                  | 832 x 624/75               | 832 x 624                     | 49.7             | 74.6              | 57.3                  | R/H    | ✓                                         | ✓                 |
|                  | 1024 x 768/50 <sup>4</sup> | 1024 x 768                    | 39.6             | 50.0              | 51.9                  | R/H    | —                                         | —                 |
|                  | 1024 x 768/60              | 1024 x 768                    | 48.4             | 60.0              | 65.0                  | R/H    | ✓                                         | ✓                 |
|                  | 1024 x 768/70              | 1024 x 768                    | 56.5             | 70.1              | 75.0                  | R/H    | ✓                                         | ✓                 |
|                  | 1024 x 768/75              | 1024 x 768                    | 60.0             | 75.0              | 78.8                  | R/H    | ✓                                         | ✓                 |
|                  | 1024 x 768/82              | 1024 x 768                    | 65.5             | 81.6              | 86.0                  | R/H    | —                                         | —                 |
|                  | 1024 x 768/85              | 1024 x 768                    | 68.7             | 85.0              | 94.5                  | R/H    | —                                         | —                 |
|                  | 1024 x 768/100             | 1024 x 768                    | 81.4             | 100.0             | 113.3                 | R/H    | —                                         | —                 |
|                  | 1152 x 864/60              | 1152 x 864                    | 53.7             | 60.0              | 81.6                  | R/H    | —                                         | —                 |
|                  | 1152 x 864/75              | 1152 x 864                    | 67.5             | 75.0              | 108.0                 | R/H    | —                                         | —                 |
|                  | 1152 x 864/85              | 1152 x 864                    | 77.1             | 85.0              | 119.7                 | R/H    | —                                         | —                 |
|                  | 1152 x 870/75              | 1152 x 870                    | 68.7             | 75.1              | 100.0                 | R/H    | ✓                                         | ✓                 |
|                  | 1280 x 720/50              | 1280 x 720                    | 37.1             | 49.8              | 60.5                  | R/H    | —                                         | —                 |
|                  | 1280 x 720/60              | 1280 x 720                    | 44.8             | 59.9              | 74.5                  | R/H    | —                                         | —                 |
|                  | 1280 x 768/60 <sup>4</sup> | 1280 x 768                    | 47.7             | 60.0              | 80.1                  | R/H    | —                                         | —                 |
|                  | 1280 x 768/60              | 1280 x 768                    | 47.8             | 59.9              | 79.5                  | R/H    | —                                         | —                 |

| Signal type      | Signal name                 | Resolution (Dots) | Scanning freq.   |               | Dot clock freq. (MHz) | Format | Plug and play correspondence <sup>1</sup> |                   |
|------------------|-----------------------------|-------------------|------------------|---------------|-----------------------|--------|-------------------------------------------|-------------------|
|                  |                             |                   | Horizontal (kHz) | Vertical (Hz) |                       |        | COMPUTER                                  | HDMI/DIGITAL LINK |
| Computer signals | 1280 x 768/75               | 1280 x 768        | 60.3             | 74.9          | 102.3                 | R/H    | —                                         | —                 |
|                  | 1280 x 768/85               | 1280 x 768        | 68.6             | 84.8          | 117.5                 | R/H    | —                                         | —                 |
|                  | 1280 x 800/50               | 1280 x 800        | 41.3             | 50.0          | 68.0                  | R/H    | —                                         | —                 |
|                  | 1280 x 800/60               | 1280 x 800        | 49.7             | 59.8          | 83.5                  | R/H    | —                                         | —                 |
|                  | 1280 x 800/75               | 1280 x 800        | 62.8             | 74.9          | 106.5                 | R/H    | —                                         | —                 |
|                  | 1280 x 800/85               | 1280 x 800        | 71.6             | 84.9          | 122.5                 | R/H    | —                                         | —                 |
|                  | 1280 x 960/60               | 1280 x 960        | 60.0             | 60.0          | 108.0                 | R/H    | —                                         | —                 |
|                  | 1280 x 1024/60 <sup>4</sup> | 1280 x 1024       | 64.0             | 60.0          | 108.0                 | R/H    | —                                         | —                 |
|                  | 1280 x 1024/75              | 1280 x 1024       | 80.0             | 75.0          | 135.0                 | R/H    | ✓                                         | ✓                 |
|                  | 1280 x 1024/85              | 1280 x 1024       | 91.1             | 85.0          | 157.5                 | R/H    | —                                         | —                 |
|                  | 1366 x 768/50               | 1366 x 768        | 39.6             | 49.9          | 69.0                  | R/H    | —                                         | —                 |
|                  | 1366 x 768/60               | 1366 x 768        | 47.7             | 59.8          | 85.5                  | R/H    | —                                         | —                 |
|                  | 1366 x 768/60 <sup>4</sup>  | 1366 x 768        | 47.7             | 60.0          | 84.7                  | R/H    | —                                         | —                 |
|                  | 1400 x 1050/60              | 1400 x 1050       | 65.3             | 60.0          | 121.8                 | R/H    | —                                         | —                 |
|                  | 1400 x 1050/60 <sup>4</sup> | 1400 x 1050       | 65.2             | 60.0          | 122.6                 | R/H    | —                                         | —                 |
|                  | 1400 x 1050/75              | 1400 x 1050       | 82.2             | 75.0          | 155.9                 | R/H    | —                                         | —                 |
|                  | 1440 x 900/50 <sup>4</sup>  | 1440 x 900        | 46.3             | 50.0          | 87.4                  | R/H    | —                                         | —                 |
|                  | 1440 x 900/60 <sup>4</sup>  | 1440 x 900        | 55.9             | 60.0          | 106.5                 | R/H    | —                                         | —                 |
|                  | 1440 x 900/60               | 1440 x 900        | 55.9             | 59.9          | 106.5                 | R/H    | —                                         | —                 |
|                  | 1600 x 900/50 <sup>4</sup>  | 1600 x 900        | 46.3             | 50.0          | 97.0                  | R/H    | —                                         | —                 |
|                  | 1600 x 900/60 <sup>4</sup>  | 1600 x 900        | 55.9             | 60.0          | 119.0                 | R/H    | —                                         | —                 |
|                  | 1600 x 1200/60              | 1600 x 1200       | 75.0             | 60.0          | 162.0                 | R/H    | ✓                                         | ✓                 |
|                  | 1680 x 1050/50              | 1680 x 1050       | 54.1             | 50.0          | 119.5                 | R/H    | —                                         | —                 |
|                  | 1680 x 1050/60              | 1680 x 1050       | 65.3             | 60.0          | 146.3                 | R/H    | —                                         | —                 |
|                  | 1680 x 1050/60 <sup>4</sup> | 1680 x 1050       | 65.2             | 60.0          | 147.1                 | R/H    | —                                         | —                 |
|                  | 1920 x 1080/50              | 1920 x 1080       | 55.6             | 49.9          | 141.5                 | R/H    | —                                         | —                 |
|                  | 1920 x 1080/60 <sup>5</sup> | 1920 x 1080       | 66.6             | 59.9          | 138.5                 | R/H    | —                                         | —                 |
|                  | 1920 x 1200/50              | 1920 x 1200       | 61.8             | 49.9          | 158.3                 | R/H    | —                                         | —                 |
|                  | 1920 x 1200/60 <sup>5</sup> | 1920 x 1200       | 74.0             | 60.0          | 154.0                 | R/H    | ✓                                         | ✓                 |

1 Signal with ✓ in the plug and play column is a signal described in the EDID (extended display identification data) of the projector. The signal that does not have ✓ in the plug and play column can also be input if it is described in the format column. The resolution may not be selected in the computer even if the projector is compatible with the signal that does not have ✓ in the plug and play column.

2 Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

3 It also supports signals with vertical scanning frequency of 1 / 1.001 times.

4 When inputting appropriate analog signal, it can be displayed by making the setting suitable for the signal from the [PICTURE] menu → [RGB-SYSTEM]. For digital signal, the [RGB-SYSTEM] setting is unnecessary.

5 VESA CVT-RB (Reduced Blanking)-compliant

#### Note

- A signal with a different resolution is converted to the number of display dots.  
1920 x 1200
- The "i" at the end of the resolution indicates an interlaced signal.
- When interlaced signals are connected, flickering may occur on the projected image.
- The maximum transmission distance when connected with the long-reach communication method is 150 m (492 ft 2 in). In this case, the signal that the projector can receive is only up to 1080/60p (1920 x 1080 dots, dot clock frequency 148.5 MHz).
- Even the above signals exist, some image signals recorded in special method may not be displayed.