Panasonic

# SPEC FILE

**Product Number :** PT-**DW830K**/**DW830W**
PT-**DW830LK**/**DW830LW**

**Product Name :** DLP™ Projectors

DLP™ Projector **PT-DW830K/DW830W/DW830LK/DW830LW**

## Specifications

**Main unit**

| | | |
|---|---|---|
| Power supply | | 120–240 V AC, 10–5.2 A, 50/60 Hz |
| Power consumption | 120–240 V AC, 50/60 Hz | 1,030 W (1,060 VA) (0.3 W with STANDBY MODE set to ECO*1, 3 W with STANDBY MODE set to NORMAL) |
| DLP™ chip | Panel size | 16.5 mm (0.65 in) diagonal (16:10 aspect ratio) |
| | Display method | DLP™ chip × 1, DLP™ system |
| | Pixels | 1,024,000 (1,280 × 800) × 1, total of 1,024,000 pixels |
| Lens | PT-DW830K/DW830W | Powered zoom/focus lenses (1.8–2.5:1), F 1.7–1.9, f 25.6–35.7 mm |
| | PT-DW830LK/DW830LW | Optional powered zoom/focus lenses and fixed-focus lens |
| Lamp | | 420 W UHM lamps (× 2) |
| Screen size | | 1.27–15.24 m (50–600 inches)<br>*1.27 – 5.08 m (50 – 200 inches) with the ET-DLE055 (16:10 aspect ratio)<br>*2.54 – 8.89 m (100 – 350 inches) with the ET-DLE030 (16:10 aspect ratio) |
| Brightness*2 | | 8,500 lumens (dual lamp, LAMP MODE: NORMAL) |
| Center-to-corner uniformity*2 | | 90% |
| Contrast*2 | | 10,000:1 (full on/full off, in dynamic iris 3 mode) |
| Resolution | | 1,280 × 800 pixels (Input signals that exceed this resolution will be converted to 1,280 × 800 pixels.) |
| Scanning frequency | HDMI/DVI-D | $f_H$: 15–100 kHz, fv: 24–120 Hz, dot clock: 25–162 MHz |
| | RGB | $f_H$: 15–100 kHz, fv: 24–120 Hz, dot clock: 162 MHz or lower |
| | $YP_BP_R$ ($YC_BC_R$) | 525i (480i): $f_H$ 15.75 kHz; fv 60 Hz,<br>625i (576i): $f_H$ 15.63 kHz; fv 50 Hz,<br>525p (480p): $f_H$ 31.50 kHz; fv 60 Hz,<br>625p (576p): $f_H$ 31.25 kHz; fv 50 Hz,<br>750 (720)/60p: $f_H$ 45.00 kHz; fv 60 Hz,<br>750 (720)/50p: $f_H$ 37.50 kHz; fv 50 Hz,<br>1125 (1035)/60i: $f_H$ 33.75 kHz; fv 60 Hz,<br>1125 (1080)/60i: $f_H$ 33.75 kHz; fv 60 Hz,<br>1125 (1080)/50i: $f_H$ 28.13 kHz; fv 50 Hz,<br>1125 (1080)/25p: $f_H$ 28.13 kHz; fv 25 Hz,<br>1125 (1080)/24p: $f_H$ 27.00 kHz; fv 24 Hz,<br>1125 (1080)/24sF: $f_H$ 27.00 kHz; fv 48 Hz,<br>1125 (1080)/30p: $f_H$ 33.75 kHz; fv 30 Hz,<br>1125 (1080)/60p: $f_H$ 67.50 kHz; fv 60 Hz,<br>1125 (1080)/50p: $f_H$ 56.25 kHz; fv 50 Hz |
| | Video/S-Video | $f_H$: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60]<br>$f_H$: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM] |
| Optical axis shift | | Vertical: +60% (powered), horizontal: ±10% (powered)<br>**NOTE: Optical axis shift function cannot be operated when used with the ET-DLE055. If using the ET-DLE030, the optical axis is fixed.** |
| Keystone correction range | | Vertical ±40°<br>*±30° with the ET-DLE055/DLE085/DLE105.<br>Cannot be used when the ET-DLE030 is installed. |
| Installation | | Ceiling/floor, front/rear |
| Terminals | HDMI IN | HDMI 19-pin × 1, Deep Color, compatible with HDCP,<br>525i(480i)*3, 625i(576i)*3, 525p(480p), 625p(576p), 750(720)/60p, 750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p<br>VGA (640 × 480) – WUXGA*4 (1,920 × 1,200), dot clock: 25 MHz–162 MHz<br>**NOTE: Compatible with non-interlaced signals only.** |

| | | |
|---|---|---|
| | DVI-D IN | DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible,<br>for single link only<br>525i(480i)*3, 625i(576i)*3, 525p(480p), 625p(576p), 750(720)/60p,<br>750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p,<br>1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p,<br>1125(1080)/50p<br>VGA (640 × 480) – WUXGA*4 (1,920 × 1,200),<br>dot clock: 25 MHz – 162 MHz<br>**NOTE: Compatible with non-interlaced signals only.** |
| | RGB 1 IN | BNC × 5 |
| | R, G, B | R: 0.7 Vp-p, 75 ohms,<br>G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms,<br>B: 0.7 Vp-p, 75 ohms<br>HD, VD/SYNC: TTL, high impedance, positive/negative automatic<br>**NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.** |
| | Y, PB, PR (Y, CB, CR) | Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms |
| | S-Video signal | Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms |
| | RGB 2 IN | D-sub HD 15-pin (female) × 1 |
| | R, G, B | R: 0.7 Vp-p, 75 ohms,<br>G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms,<br>B: 0.7 Vp-p, 75 ohms<br>HD, VD/SYNC: TTL, high impedance, positive/negative automatic<br>**NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.** |
| | Y, PB, PR (Y, CB, CR) | Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms |
| | 3D SYNC 1 IN/OUT | BNC × 1, 1.0 Vp-p, 75 ohms<br>Input: TTL, high impedance. Output: TTL, max. 10 mA |
| | 3D SYNC 2 OUT | BNC × 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA |
| | VIDEO IN | BNC × 1, 1.0 Vp-p, 75 ohms |
| | SERIAL IN | D-sub 9-pin (female) × 1 for external control (RS-232C compliant) |
| | SERIAL OUT | D-sub 9-pin (male) × 1 for link control (RS-232C compliant) |
| | REMOTE 1 IN | M3 jack × 1 for wired remote control |
| | REMOTE 1 OUT | M3 jack × 1 for link control |
| | REMOTE 2 IN | D-sub 9-pin (female) × 1 for external control (parallel) |
| | LAN/DIGITAL LINK | RJ-45 × 1 for network and DIGITAL LINK (video/network/serial control)<br>connection, 100Base-TX, compatible with Art-Net, compliant with<br>PJLink™ (class 1), Deep Color, compatible with HDCP,<br>525i(480i)*3, 625i(576i)*3, 525p(480p), 625p(576p), 750(720)/60p,<br>750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p,<br>1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p,<br>1125(1080)/50p<br>VGA (640 × 480) – WUXGA*3 (1,920 × 1,200),<br>dot clock: 25 MHz – 162 MHz<br>**NOTE: Compatible with non-interlaced signals only.** |
| Power cord length | | 3.0 m (9 ft 10 in) |
| Cabinet materials | | Molded plastic |
| Dimensions (W × H × D) | PT-DW830K/DW830W | 498 × 200*5 × 556 mm<br>(19-19/32 × 7-7/8*5 × 21-7/8 inches) (with supplied lens) |
| | PT-DW830LK/DW830LW | 498 × 200*5 × 513 mm<br>(19-19/32 × 7-7/8*5 × 20-3/16 inches) (without lens) |
| Weight*6 | PT-DW830K/DW830W | Approx. 18.3 kg (40.3 lbs) (with supplied lens) |
| | PT-DW830LK/DW830LW | Approx. 17.6 kg (38.8 lbs) (without lens) |
| Operation noise*2 | | 40 dB (dual lamp operation, LAMP MODE: NORMAL),<br>35 dB (dual lamp operation, LAMP MODE: ECO) |
| Operating temperature | | 0 – 45 °C (32 – 113 °F)*7 |
| Operating humidity | | 10% – 80% (no condensation) |

**Remote control unit**

| | |
|---|---|
| Power supply | 3 V DC (AAA type battery × 2) |
| Operation range*8 | Approx. 30 m (98 ft 5 in) when operated from directly in front of the signal receptor |
| Dimensions (W × H × D) | 48 × 145 × 27 mm (1-28/32 × 5-23/32 × 1-1/16 inches) |
| Weight | Approx. 102 g (3.6 oz) (including batteries) |

**Supplied accessories**

Power cord (× 1) (× 2 for PT-DW830EK/DW830EW/DW830ELK/DW830ELW)
Wireless/wired remote control unit (× 1)
Batteries for remote control (AAA type × 2)
Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)

**Optional accessories**

| | |
|---|---|
| Digital interface box | ET-YFB100G |
| Zoom lens (0.6–0.8:1) | ET-DLE060*9 |
| Zoom lens (0.8–1.0:1) | ET-DLE085 |
| Zoom lens (1.0–1.4:1) | ET-DLE105 |
| Zoom lens (1.4–2.0:1) | ET-DLE150 |
| Zoom lens (1.7–2.4:1) | ET-DLE170 (same as supplied lens) |
| Zoom lens (2.4–3.8:1) | ET-DLE250 |
| Zoom lens (3.8–5.7:1) | ET-DLE350 |
| Zoom lens (5.6–9.0:1) | ET-DLE450 |
| Fixed-focus lens (0.4:1) | ET-DLE035*9/ET-DLE030 |
| Fixed-focus lens (0.8:1) | ET-DLE055 |
| Ceiling mount bracket | ET-PKD120H (for high ceilings)<br>ET-PKD120S (for low ceilings) |
| High-ceiling mount bracket (6-axis adjustment mechanism) | ET-PKD130H |
| Attachment for ceiling mount bracket | ET-PKD130B |
| Replacement lamp unit for portrait mode | ET-LAD120P<br>ET-LAD120PW (Twin Pack) |
| Replacement lamp unit | ET-LAD120<br>ET-LAD120W (Twin Pack) |

**Weights and dimensions shown are approximate. Specifications and appearance are 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, and the serial output terminal cannot be used. 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 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**

***5 With legs at shortest position.**

***6 Average value. May differ depending on models.**

***7 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the fan control is set to High Altitude mode (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in High Altitude mode) when the projector is being used with Lamp Select set to Dual and Lamp Power set to High, the light output may be reduced approximately 20% to protect the projector.**

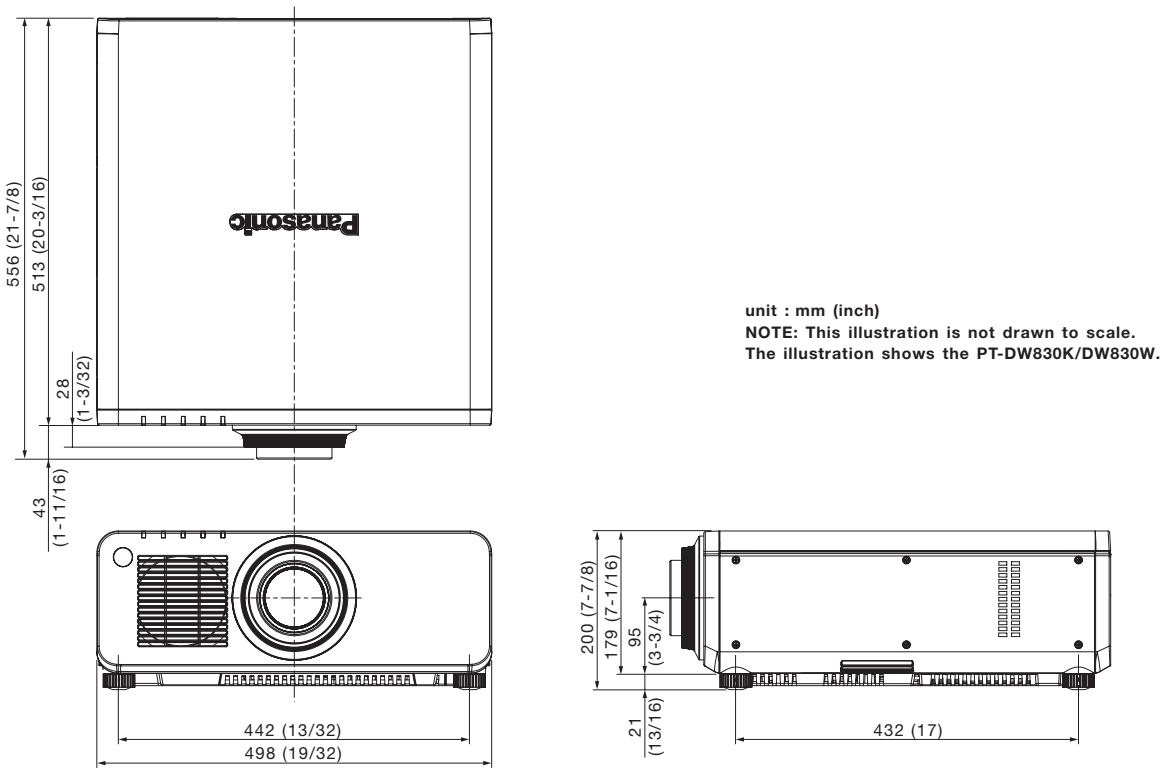
***8 Operation range differs depending on environments.**

***9 For more information, please see the specification sheet of lens.**

DLP™ Projector

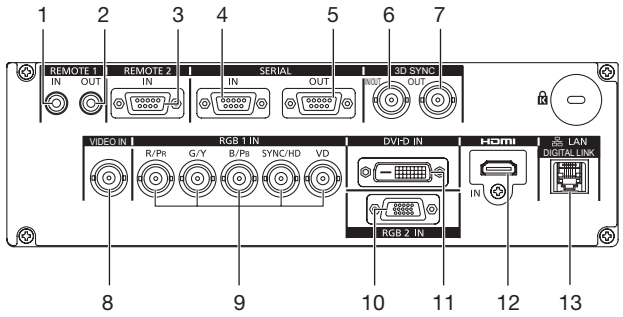
# PT-DW830K/DW830W/DW830LK/DW830LW

## Dimensions




**unit : mm (inch)**
**NOTE: This illustration is not drawn to scale.**
**The illustration shows the PT-DW830K/DW830W.**

## Terminals

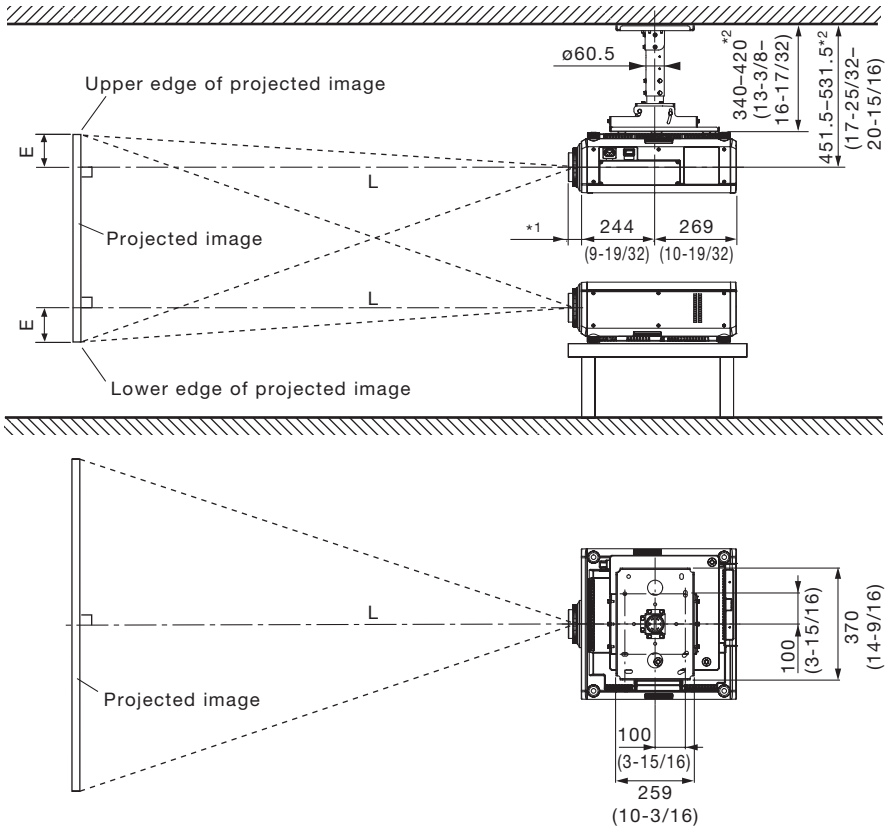



1 Remote 1 input
2 Remote 1 output
3 Remote 2 input
4 Serial input
5 Serial output
6 3D sync 1 input/output
7 3D sync 2 output
8 Video input
9 RGB 1 input
10 RGB 2 Input
11 DVI-D input
12 HDMI input
13 LAN/DIGITAL LINK connector

DLP™ Projector

# PT-DW830K/DW830W/DW830LK/DW830LW

**Standard setting-up position (If using other than the ET-DLE030)**




***1 When the lens protrudes to the maximum.**
**84 mm (3-5/16 in) with the ET-DLE085**
**88 mm (3-15/32 in) with the ET-DLE105**
**44 mm (1-23/32 in) with the ET-DLE150**
**43 mm (1-11/16 in) with the supplied lens/ET-DLE170**
**45 mm (1-25/32 in) with the ET-DLE250**
**51mm (2 in) with the ET-DLE350**
**95 mm (3-3/4 in) with the ET-DLE450**
**27 mm (1-1/16 in) with the ET-DLE055**

***2 Adjustable in 40 mm (1-9/16 in) steps.**

**unit : mm (inch)**

**NOTE:**

**Illustrations show the projector installed using optional ceiling mount bracket ET-PKD120H, optional bracket assembly ET-PKD130B/PKD120B and an optional lens.**

**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. Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

## Projection distance for 16:10 aspect ratio screen (If using other than the ET-DLE030)

**Unit: meters**

| Screen size (diagonal) | | Distance to screen (L) | | | | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Zoom | | | | | | | | | | | | | | Fixed-focus | | |
| | | ET-DLE085 Zoom lens | | ET-DLE105 Zoom lens | | ET-DLE150 Zoom lens | | *Supplied lens ET-DLE170 Zoom lens* | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | ET-DLE055 Fixed-focus lens | Zoom lenses | Fixed-focus lens |
| [m] | [in] | min. | max. | min. | max. | min. | max. | *min.* | *max.* | min. | max. | min. | max. | min. | max. | | | |
| 1.27 / | 50 | 0.87 | 1.09 | 1.09 | 1.48 | 1.45 | 2.12 | ***1.91*** | ***2.70*** | 2.54 | 4.06 | 4.00 | 6.11 | 5.96 | 9.60 | 0.87 | -0.07 – 0.34 | 0.34 |
| 1.52 / | 60 | 1.05 | 1.32 | 1.32 | 1.79 | 1.75 | 2.55 | ***2.31*** | ***3.26*** | 3.07 | 4.89 | 4.83 | 7.36 | 7.21 | 11.57 | 1.06 | -0.08 – 0.40 | 0.40 |
| 1.78 / | 70 | 1.23 | 1.54 | 1.54 | 2.09 | 2.05 | 2.98 | ***2.71*** | ***3.81*** | 3.59 | 5.72 | 5.65 | 8.61 | 8.46 | 13.55 | 1.24 | -0.09 – 0.47 | 0.47 |
| 2.03 / | 80 | 1.42 | 1.77 | 1.77 | 2.40 | 2.35 | 3.42 | ***3.11*** | ***4.37*** | 4.12 | 6.55 | 6.48 | 9.86 | 9.71 | 15.53 | 1.42 | -0.11 – 0.54 | 0.54 |
| 2.29 / | 90 | 1.60 | 2.00 | 2.00 | 2.70 | 2.65 | 3.85 | ***3.50*** | ***4.92*** | 4.64 | 7.38 | 7.31 | 11.11 | 10.96 | 17.51 | 1.61 | -0.12 – 0.61 | 0.61 |
| 2.54 / | 100 | 1.78 | 2.22 | 2.23 | 3.01 | 2.95 | 4.28 | ***3.90*** | ***5.48*** | 5.16 | 8.20 | 8.13 | 12.36 | 12.22 | 19.49 | 1.79 | -0.13 – 0.67 | 0.67 |
| 3.05 / | 120 | 2.15 | 2.68 | 2.68 | 3.62 | 3.55 | 5.15 | ***4.70*** | ***6.59*** | 6.21 | 9.86 | 9.79 | 14.86 | 14.72 | 23.45 | 2.16 | -0.16 – 0.81 | 0.81 |
| 3.81 / | 150 | 2.70 | 3.36 | 3.37 | 4.54 | 4.45 | 6.45 | ***5.89*** | ***8.25*** | 7.79 | 12.35 | 12.27 | 18.61 | 18.47 | 29.38 | 2.71 | -0.20 – 1.01 | 1.01 |
| 5.08 / | 200 | 3.62 | 4.49 | 4.51 | 6.06 | 5.95 | 8.61 | ***7.88*** | ***11.03*** | 10.41 | 16.49 | 16.40 | 24.85 | 24.73 | 39.28 | 3.63 | -0.27 – 1.35 | 1.35 |
| 6.35 / | 250 | 4.53 | 5.62 | 5.65 | 7.59 | 7.45 | 10.78 | ***9.86*** | ***13.81*** | 13.03 | 20.63 | 20.53 | 31.10 | 30.99 | 49.17 | – | -0.34 – 1.68 | – |
| 7.62 / | 300 | 5.45 | 6.76 | 6.78 | 9.12 | 8.95 | 12.95 | ***11.85*** | ***16.58*** | 15.65 | 24.77 | 24.67 | 37.35 | 37.25 | 59.06 | – | -0.40 – 2.02 | – |
| 10.16 / | 400 | 7.28 | 9.02 | 9.06 | 12.17 | 11.96 | 17.28 | ***15.83*** | ***22.13*** | 20.90 | 33.05 | 32.94 | 49.84 | 49.76 | 78.85 | – | -0.54 – 2.69 | – |
| 12.70 / | 500 | 9.11 | 11.29 | 11.34 | 15.23 | 14.96 | 21.61 | ***19.80*** | ***27.68*** | 26.14 | 41.34 | 41.20 | 62.33 | 62.28 | 98.64 | – | -0.67 – 3.37 | – |
| 15.24 / | 600 | 10.94 | 13.56 | 13.62 | 18.29 | 17.96 | 25.94 | ***23.78*** | ***33.23*** | 31.39 | 49.62 | 49.47 | 74.82 | 74.80 | 118.43 | – | -0.81 – 4.04 | – |

**Unit: feet**

| Screen size (diagonal) | | Distance to screen (L) | | | | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Zoom | | | | | | | | | | | | | | Fixed-focus | | |
| | | ET-DLE085 Zoom lens | | ET-DLE105 Zoom lens | | ET-DLE150 Zoom lens | | *Supplied lens ET-DLE170 Zoom lens* | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | ET-DLE055 Fixed-focus lens | Zoom lenses | Fixed-focus lens |
| [m] | [in] | min. | max. | min. | max. | min. | max. | *min.* | *max.* | min. | max. | min. | max. | min. | max. | | | |
| 1.27 / | 50 | 2.8 | 3.6 | 3.6 | 4.9 | 4.7 | 6.9 | ***6.3*** | ***8.9*** | 8.3 | 13.3 | 13.1 | 20.1 | 19.5 | 31.5 | 2.9 | -0.2 – 1.1 | 1.1 |
| 1.52 / | 60 | 3.5 | 4.3 | 4.3 | 5.9 | 5.7 | 8.4 | ***7.6*** | ***10.7*** | 10.1 | 16.0 | 15.8 | 24.2 | 23.6 | 38.0 | 3.5 | -0.3 – 1.3 | 1.3 |
| 1.78 / | 70 | 4.1 | 5.1 | 5.1 | 6.9 | 6.7 | 9.8 | ***8.9*** | ***12.5*** | 11.8 | 18.8 | 18.5 | 28.3 | 27.8 | 44.5 | 4.1 | -0.3 – 1.6 | 1.6 |
| 2.03 / | 80 | 4.7 | 5.8 | 5.8 | 7.9 | 7.7 | 11.2 | ***10.2*** | ***14.3*** | 13.5 | 21.5 | 21.3 | 32.3 | 31.9 | 51.0 | 4.7 | -0.4 – 1.8 | 1.8 |
| 2.29 / | 90 | 5.3 | 6.6 | 6.6 | 8.9 | 8.7 | 12.6 | ***11.5*** | ***16.2*** | 15.2 | 24.2 | 24.0 | 36.4 | 36.0 | 57.4 | 5.3 | -0.4 – 2.0 | 2.0 |
| 2.54 / | 100 | 5.9 | 7.3 | 7.3 | 9.9 | 9.7 | 14.0 | ***12.8*** | ***18.0*** | 16.9 | 26.9 | 26.7 | 40.6 | 40.1 | 63.9 | 5.9 | -0.4 – 2.2 | 2.2 |
| 3.05 / | 120 | 7.1 | 8.8 | 8.8 | 11.9 | 11.6 | 16.9 | ***15.4*** | ***21.6*** | 20.4 | 32.4 | 32.1 | 48.7 | 48.3 | 76.9 | 7.1 | -0.5 – 2.7 | 2.7 |
| 3.81 / | 150 | 8.9 | 11.0 | 11.1 | 14.9 | 14.6 | 21.2 | ***19.3*** | ***27.1*** | 25.5 | 40.5 | 40.2 | 61.0 | 60.6 | 96.4 | 8.9 | -0.7 – 3.3 | 3.3 |
| 5.08 / | 200 | 11.9 | 14.7 | 14.8 | 19.9 | 19.5 | 28.3 | ***25.8*** | ***36.2*** | 34.2 | 54.1 | 53.8 | 81.5 | 81.1 | 128.9 | 11.9 | -0.9 – 4.4 | 4.4 |
| 6.35 / | 250 | 14.9 | 18.4 | 18.5 | 24.9 | 24.5 | 35.4 | ***32.4*** | ***45.3*** | 42.8 | 67.7 | 67.4 | 102.0 | 101.7 | 161.3 | – | -1.1 – 5.5 | – |
| 7.62 / | 300 | 17.9 | 22.2 | 22.2 | 29.9 | 29.4 | 42.5 | ***38.9*** | ***54.4*** | 51.4 | 81.3 | 80.9 | 122.5 | 122.2 | 193.8 | – | -1.3 – 6.6 | – |
| 10.16 / | 400 | 23.9 | 29.6 | 29.7 | 39.9 | 39.2 | 56.7 | ***51.9*** | ***72.6*** | 68.6 | 108.4 | 108.1 | 163.5 | 163.3 | 258.7 | – | -1.8 – 8.8 | – |
| 12.70 / | 500 | 29.9 | 37.0 | 37.2 | 50.0 | 49.1 | 70.9 | ***65.0*** | ***90.8*** | 85.8 | 135.6 | 135.2 | 204.5 | 204.3 | 323.6 | – | -2.2 – 11.0 | – |
| 15.24 / | 600 | 35.9 | 44.5 | 44.7 | 60.0 | 58.9 | 85.1 | ***78.0*** | ***109.0*** | 103.0 | 162.8 | 162.3 | 245.5 | 245.4 | 388.5 | – | -2.7 – 13.3 | – |

- **The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.**
- **The zoom lens characteristics may cause slight image distortion.**
- **When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.**
- **The brightness varies depending on the zoom setting.**

**Note: When the ET-DLE055 is mounted, the optical lens shift function cannot be used.**

DLP™ Projector **PT-DW830K/DW830W/DW830LK/DW830LW**

## Projection distance for 16:9 aspect ratio screen (If using other than the ET-DLE030)

**Unit: meters**

| Screen size (diagonal) | | Distance to screen (L) | | | | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Zoom | | | | | | | | | | | | | | Fixed-focus | | |
| | | ET-DLE085 Zoom lens | | ET-DLE105 Zoom lens | | ET-DLE150 Zoom lens | | *Supplied lens ET-DLE170 Zoom lens* | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | ET-DLE055 Fixed-focus lens | Zoom lenses | Fixed-focus lens |
| [m] | [in] | min. | max. | min. | max. | min. | max. | *min.* | *max.* | min. | max. | min. | max. | min. | max. | | | |
| 1.27 / | 50 | 0.89 | 1.12 | 1.12 | 1.52 | 1.49 | 2.18 | ***1.97*** | ***2.78*** | 2.62 | 4.18 | 4.11 | 6.29 | 6.13 | 9.87 | 0.90 | -0.14 – 0.31 | 0.31 |
| 1.52 / | 60 | 1.08 | 1.35 | 1.35 | 1.84 | 1.80 | 2.62 | ***2.38*** | ***3.35*** | 3.15 | 5.03 | 4.96 | 7.57 | 7.42 | 11.90 | 1.09 | -0.16 – 0.37 | 0.37 |
| 1.78 / | 70 | 1.27 | 1.59 | 1.59 | 2.15 | 2.11 | 3.07 | ***2.79*** | ***3.92*** | 3.69 | 5.88 | 5.81 | 8.85 | 8.70 | 13.94 | 1.28 | -0.19 – 0.44 | 0.44 |
| 2.03 / | 80 | 1.46 | 1.82 | 1.82 | 2.47 | 2.42 | 3.51 | ***3.19*** | ***4.49*** | 4.23 | 6.73 | 6.66 | 10.14 | 9.99 | 15.97 | 1.46 | -0.22 – 0.50 | 0.50 |
| 2.29 / | 90 | 1.65 | 2.05 | 2.06 | 2.78 | 2.72 | 3.96 | ***3.60*** | ***5.06*** | 4.77 | 7.58 | 7.51 | 11.42 | 11.28 | 18.01 | 1.65 | -0.25 – 0.56 | 0.56 |
| 2.54 / | 100 | 1.83 | 2.29 | 2.29 | 3.09 | 3.03 | 4.40 | ***4.01*** | ***5.63*** | 5.31 | 8.44 | 8.36 | 12.71 | 12.56 | 20.04 | 1.84 | -0.27 – 0.62 | 0.62 |
| 3.05 / | 120 | 2.21 | 2.75 | 2.76 | 3.72 | 3.65 | 5.29 | ***4.83*** | ***6.77*** | 6.39 | 10.14 | 10.06 | 15.27 | 15.14 | 24.11 | 2.22 | -0.33 – 0.75 | 0.75 |
| 3.81 / | 150 | 2.78 | 3.45 | 3.46 | 4.66 | 4.58 | 6.63 | ***6.05*** | ***8.49*** | 8.01 | 12.69 | 12.61 | 19.13 | 19.00 | 30.21 | 2.79 | -0.41 – 0.93 | 0.93 |
| 5.08 / | 200 | 3.72 | 4.62 | 4.63 | 6.23 | 6.12 | 8.86 | ***8.10*** | ***11.34*** | 10.70 | 16.95 | 16.86 | 25.55 | 25.43 | 40.38 | 3.73 | -0.55 – 1.25 | 1.25 |
| 6.35 / | 250 | 4.66 | 5.78 | 5.80 | 7.80 | 7.66 | 11.08 | ***10.14*** | ***14.19*** | 13.40 | 21.21 | 21.11 | 31.97 | 31.86 | 50.54 | – | -0.68 – 1.56 | – |
| 7.62 / | 300 | 5.60 | 6.94 | 6.97 | 9.37 | 9.21 | 13.31 | ***12.18*** | ***17.04*** | 16.09 | 25.46 | 25.36 | 38.39 | 38.29 | 60.71 | – | -0.82 – 1.87 | – |
| 10.16 / | 400 | 7.48 | 9.27 | 9.32 | 12.51 | 12.29 | 17.76 | ***16.27*** | ***22.75*** | 21.48 | 33.98 | 33.86 | 51.23 | 51.16 | 81.05 | – | -1.10 – 2.49 | – |
| 12.70 / | 500 | 9.36 | 11.60 | 11.66 | 15.66 | 15.38 | 22.21 | ***20.36*** | ***28.46*** | 26.87 | 42.49 | 42.35 | 64.07 | 64.02 | 101.39 | – | -1.37 – 3.11 | – |
| 15.24 / | 600 | 11.24 | 13.93 | 14.00 | 18.80 | 18.46 | 26.67 | ***24.44*** | ***34.16*** | 32.26 | 51.00 | 50.85 | 76.91 | 76.88 | 121.73 | – | -1.64 – 3.74 | – |

**Unit: feet**

| Screen size (diagonal) | | Distance to screen (L) | | | | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Zoom | | | | | | | | | | | | | | Fixed-focus | | |
| | | ET-DLE085 Zoom lens | | ET-DLE105 Zoom lens | | ET-DLE150 Zoom lens | | *Supplied lens ET-DLE170 Zoom lens* | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | ET-DLE055 Fixed-focus lens | Zoom lenses | Fixed-focus lens |
| [m] | [in] | min. | max. | min. | max. | min. | max. | *min.* | *max.* | min. | max. | min. | max. | min. | max. | | | |
| 1.27 / | 50 | 2.9 | 3.7 | 3.7 | 5.0 | 4.9 | 7.2 | ***6.5*** | ***9.1*** | 8.6 | 13.7 | 13.5 | 20.6 | 20.1 | 32.4 | 3.0 | -0.5 – 1.0 | 1.0 |
| 1.52 / | 60 | 3.5 | 4.4 | 4.4 | 6.0 | 5.9 | 8.6 | ***7.8*** | ***11.0*** | 10.3 | 16.5 | 16.3 | 24.8 | 24.3 | 39.1 | 3.6 | -0.5 – 1.2 | 1.2 |
| 1.78 / | 70 | 4.2 | 5.2 | 5.2 | 7.1 | 6.9 | 10.1 | ***9.2*** | ***12.9*** | 12.1 | 19.3 | 19.1 | 29.0 | 28.6 | 45.7 | 4.2 | -0.6 – 1.4 | 1.4 |
| 2.03 / | 80 | 4.8 | 6.0 | 6.0 | 8.1 | 7.9 | 11.5 | ***10.5*** | ***14.7*** | 13.9 | 22.1 | 21.9 | 33.3 | 32.8 | 52.4 | 4.8 | -0.7 – 1.6 | 1.6 |
| 2.29 / | 90 | 5.4 | 6.7 | 6.8 | 9.1 | 8.9 | 13.0 | ***11.8*** | ***16.6*** | 15.6 | 24.9 | 24.6 | 37.5 | 37.0 | 59.1 | 5.4 | -0.8 – 1.8 | 1.8 |
| 2.54 / | 100 | 6.0 | 7.5 | 7.5 | 10.1 | 9.9 | 14.4 | ***13.2*** | ***18.5*** | 17.4 | 27.7 | 27.4 | 41.7 | 41.2 | 65.7 | 6.0 | -0.9 – 2.0 | 2.0 |
| 3.05 / | 120 | 7.3 | 9.0 | 9.1 | 12.2 | 12.0 | 17.4 | ***15.8*** | ***22.2*** | 21.0 | 33.3 | 33.0 | 50.1 | 49.7 | 79.1 | 7.3 | -1.1 – 2.5 | 2.5 |
| 3.81 / | 150 | 9.1 | 11.3 | 11.4 | 15.3 | 15.0 | 21.7 | ***19.8*** | ***27.9*** | 26.3 | 41.6 | 41.4 | 62.7 | 62.3 | 99.1 | 9.1 | -1.3 – 3.1 | 3.1 |
| 5.08 / | 200 | 12.2 | 15.1 | 15.2 | 20.4 | 20.1 | 29.1 | ***26.6*** | ***37.2*** | 35.1 | 55.6 | 55.3 | 83.8 | 83.4 | 132.5 | 12.2 | -1.8 – 4.1 | 4.1 |
| 6.35 / | 250 | 15.3 | 19.0 | 19.0 | 25.6 | 25.1 | 36.4 | ***33.3*** | ***46.6*** | 44.0 | 69.6 | 69.3 | 104.9 | 104.5 | 165.8 | – | -2.2 – 5.1 | – |
| 7.62 / | 300 | 18.4 | 22.8 | 22.9 | 30.7 | 30.2 | 43.7 | ***40.0*** | ***55.9*** | 52.8 | 83.5 | 83.2 | 125.9 | 125.6 | 199.2 | – | -2.7 – 6.1 | – |
| 10.16 / | 400 | 24.5 | 30.4 | 30.6 | 41.0 | 40.3 | 58.3 | ***53.4*** | ***74.6*** | 70.5 | 111.5 | 111.1 | 168.1 | 167.8 | 265.9 | – | -3.6 – 8.2 | – |
| 12.70 / | 500 | 30.7 | 38.1 | 38.3 | 51.4 | 50.5 | 72.9 | ***66.8*** | ***93.4*** | 88.2 | 139.4 | 138.9 | 210.2 | 210.0 | 332.6 | – | -4.5 – 10.2 | – |
| 15.24 / | 600 | 36.9 | 45.7 | 45.9 | 61.7 | 60.6 | 87.5 | ***80.2*** | ***112.1*** | 105.9 | 167.3 | 166.8 | 252.3 | 252.2 | 399.4 | – | -5.4 – 12.3 | – |

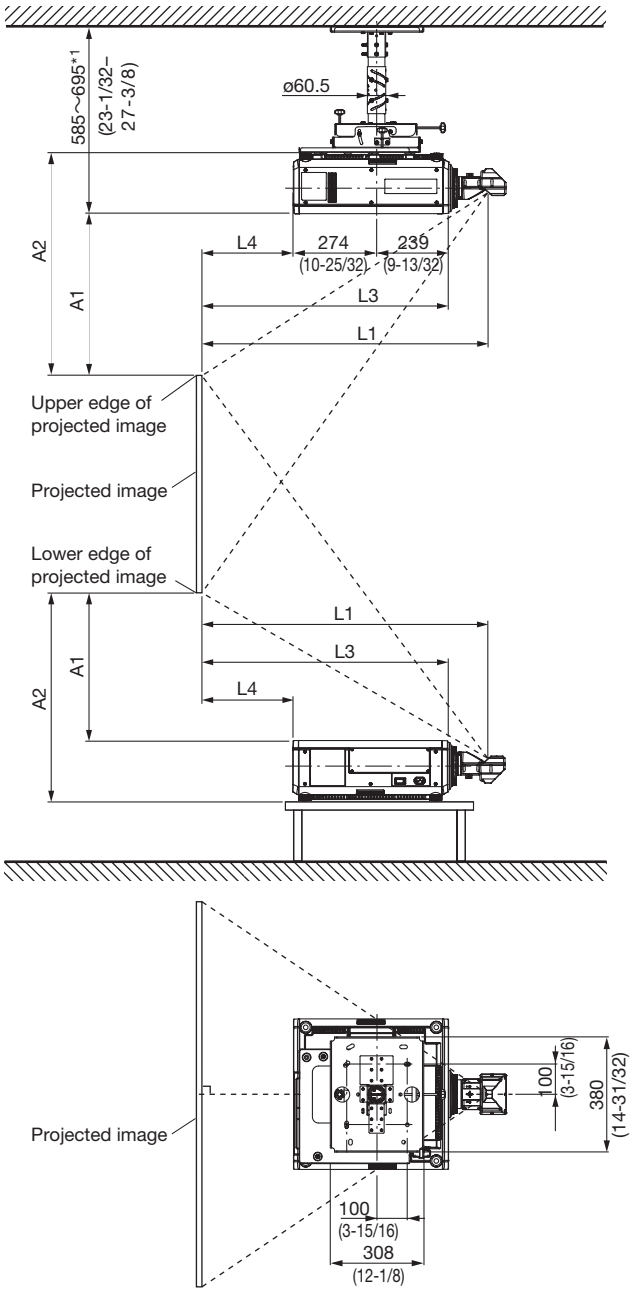
- **The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.**
- **The zoom lens characteristics may cause slight image distortion.**
- **When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.**
- **The brightness varies depending on the zoom setting.**

**Note: When the ET-DLE055 is mounted, the optical lens shift function cannot be used.**

DLP™ Projector

# PT-DW830K/DW830W/DW830LK/DW830LW

**Standard setting-up position (If using the ET-DLE030)**







**NOTE:**

**Illustrations show the projector installed using optional ceiling mount bracket ET-PKD130H, optional bracket assembly ET-PKD130B and an optional lens.**

**This illustration is not drawn to scale.**

***1 Continuous height adjustment possible.**

**unit : mm (inch)**

**NOTE:**

**Illustrations show the projector installed using optional ceiling mount bracket ET-PKD130H, optional bracket assembly ET-PKD130B and an optional lens.**

**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. Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

DLP™ Projector

# PT-DW830K/DW830W/DW830LK/DW830LW

## Projection distance for 16:10 aspect ratio screen (If using the ET-DLE030)

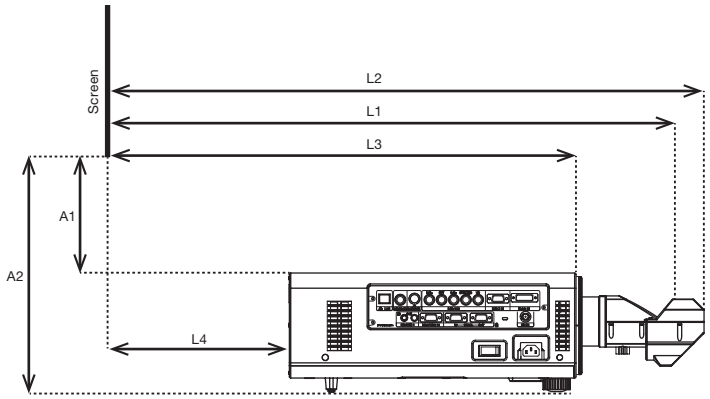
Unit : meters

| Throw ratio | | | | Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.40:1 | (0.41:1) | | | | |
| Diagonal image size (Inches) | Diagonal image size (m) | Height (SH) | Width (SW) | Projection distance (From mirror reflective surface to screen) (L1) | From tip of lens to screen (L2) | From front of set to screen (L3) | From rear of set to screen (L4) | From top of set to bottom edge of screen (A1) | From bottom of set to bottom edge of screen (A2) |
| 100 | 2.54 | 1.35 | 2.15 | 0.86 | 0.88 | 0.69 | 0.18 | 0.59 | 0.79 |
| 120 | 3.05 | 1.62 | 2.59 | 1.03 | 1.05 | 0.86 | 0.35 | 0.72 | 0.92 |
| 150 | 3.81 | 2.02 | 3.23 | 1.29 | 1.31 | 1.12 | 0.61 | 0.92 | 1.12 |
| 200 | 5.08 | 2.69 | 4.31 | 1.71 | 1.74 | 1.55 | 1.04 | 1.25 | 1.45 |
| 250 | 6.35 | 3.37 | 5.39 | 2.14 | 2.16 | 1.98 | 1.46 | 1.58 | 1.78 |
| 300 | 7.62 | 4.04 | 6.46 | 2.57 | 2.59 | 2.40 | 1.89 | 1.91 | 2.11 |
| 350 | 8.89 | 4.71 | 7.54 | 3.00 | 3.02 | 2.83 | 2.32 | 2.24 | 2.44 |

Unit : feet

| Throw ratio | | | | Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.40:1 | (0.41:1) | | | | |
| Diagonal image size (Inches) | Diagonal image size (m) | Height (SH) | Width (SW) | Projection distance (From mirror reflective surface to screen) (L1) | From tip of lens to screen (L2) | From front of set to screen (L3) | From rear of set to screen (L4) | From top of set to bottom edge of screen (A1) | From bottom of set to bottom edge of screen (A2) |
| 100 | 2.54 | 4.4 | 7.1 | 2.8 | 2.9 | 2.3 | 0.6 | 1.9 | 2.6 |
| 120 | 3.05 | 5.3 | 8.5 | 3.4 | 3.5 | 2.8 | 1.2 | 2.4 | 3.0 |
| 150 | 3.81 | 6.6 | 10.6 | 4.2 | 4.3 | 3.7 | 2.0 | 3.0 | 3.7 |
| 200 | 5.08 | 8.8 | 14.1 | 5.6 | 5.7 | 5.1 | 3.4 | 4.1 | 4.7 |
| 250 | 6.35 | 11.0 | 17.7 | 7.0 | 7.1 | 6.5 | 4.8 | 5.2 | 5.8 |
| 300 | 7.62 | 13.3 | 21.2 | 8.4 | 8.5 | 7.9 | 6.2 | 6.3 | 6.9 |
| 350 | 8.89 | 15.5 | 24.7 | 9.8 | 9.9 | 9.3 | 7.6 | 7.3 | 8.0 |

* The value for L1 may contain an error of within ±5%.
* This measurement is not the distance between the rear of the projector and the wall, but is instead the distance between the rear of the projector and the screen surface. Leave at least 500 mm of space between the rear of the projector and the wall and any other objects in order to provide adequate ventilation space. If setting up the projector in a closed room, be sure to provide separate air conditioning and ventilation equipment. If there is insufficient ventilation in the room, radiated heat may build up and cause the protection circuit of the projector to operate.




L1: Projection distance
(from screen to mirror reflective surface)
L2: From screen to tip of lens
L3: From screen to front of set
L4: From screen to rear of set
A1: From bottom edge of screen to top of set
A2: From bottom edge of screen to bottom of set

### Projection Distance Calculation Table

**Screen aspect ratio 16:10**

Projection distance calculation formula

L1 (m) = 0.3365 x Diagonal image size + 0.0047

Calculation formula for distance from top of set to bottom edge of screen

A1 (m) = 0.2597 x Diagonal image size - 0.074

## Projection distance for 16:9 aspect ratio screen (If using the ET-DLE030)

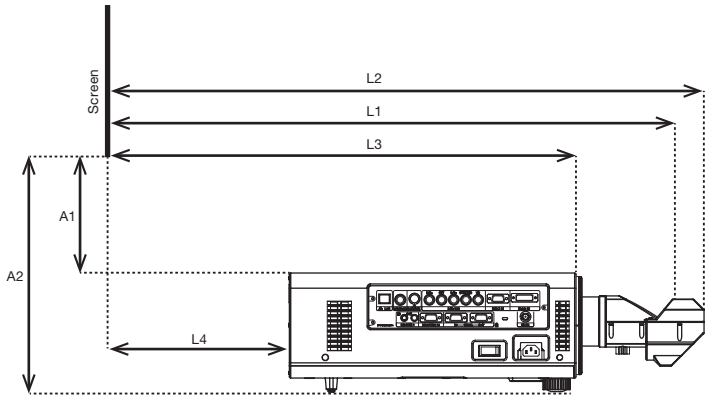
Unit : meters

| Throw ratio | | | | Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.40:1 | (0.41:1) | | | | |
| Diagonal image size (Inches) | Diagonal image size (m) | Height (SH) | Width (SW) | Projection distance (From mirror reflective surface to screen) (L1) | From tip of lens to screen (L2) | From front of set to screen (L3) | From rear of set to screen (L4) | From top of set to bottom edge of screen (A1) | From bottom of set to bottom edge of screen (A2) |
| 100 | 2.54 | 1.25 | 2.21 | 0.88 | 0.90 | 0.72 | 0.20 | 0.67 | 0.87 |
| 120 | 3.05 | 1.49 | 2.66 | 1.06 | 1.08 | 0.89 | 0.38 | 0.82 | 1.02 |
| 150 | 3.81 | 1.87 | 3.32 | 1.32 | 1.34 | 1.16 | 0.64 | 1.05 | 1.25 |
| 200 | 5.08 | 2.49 | 4.43 | 1.76 | 1.78 | 1.60 | 1.08 | 1.42 | 1.62 |
| 250 | 6.35 | 3.11 | 5.54 | 2.20 | 2.22 | 2.04 | 1.52 | 1.79 | 1.99 |
| 300 | 7.62 | 3.74 | 6.64 | 2.64 | 2.66 | 2.47 | 1.96 | 2.17 | 2.37 |
| 350 | 8.89 | 4.36 | 7.75 | 3.08 | 3.10 | 2.91 | 2.40 | 2.54 | 2.74 |

Unit : feet

| Throw ratio | | | | Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.40:1 | (0.41:1) | | | | |
| Diagonal image size (Inches) | Diagonal image size (m) | Height (SH) | Width (SW) | Projection distance (From mirror reflective surface to screen) (L1) | From tip of lens to screen (L2) | From front of set to screen (L3) | From rear of set to screen (L4) | From top of set to bottom edge of screen (A1) | From bottom of set to bottom edge of screen (A2) |
| 100 | 2.54 | 4.1 | 7.3 | 2.9 | 3.0 | 2.4 | 0.7 | 2.2 | 2.9 |
| 120 | 3.05 | 4.9 | 8.7 | 3.5 | 3.5 | 2.9 | 1.2 | 2.7 | 3.4 |
| 150 | 3.81 | 6.1 | 10.9 | 4.3 | 4.4 | 3.8 | 2.1 | 3.4 | 4.1 |
| 200 | 5.08 | 8.2 | 14.5 | 5.8 | 5.8 | 5.2 | 3.6 | 4.7 | 5.3 |
| 250 | 6.35 | 10.2 | 18.2 | 7.2 | 7.3 | 6.7 | 5.0 | 5.9 | 6.5 |
| 300 | 7.62 | 12.3 | 21.8 | 8.7 | 8.7 | 8.1 | 6.4 | 7.1 | 7.8 |
| 350 | 8.89 | 14.3 | 25.4 | 10.1 | 10.2 | 9.6 | 7.9 | 8.3 | 9.0 |

* The value for L1 may contain an error of within ±5%.
* This measurement is not the distance between the rear of the projector and the wall, but is instead the distance between the rear of the projector and the screen surface. Leave at least 500 mm of space between the rear of the projector and the wall and any other objects in order to provide adequate ventilation space. If setting up the projector in a closed room, be sure to provide separate air conditioning and ventilation equipment. If there is insufficient ventilation in the room, radiated heat may build up and cause the protection circuit of the projector to operate.




L1: Projection distance
(from screen to mirror reflective surface)
L2: From screen to tip of lens
L3: From screen to front of set
L4: From screen to rear of set
A1: From bottom edge of screen to top of set
A2: From bottom edge of screen to bottom of set

### Projection Distance Calculation Table

**Screen aspect ratio 16:9**

Projection distance calculation formula

L1 (m) = 0.3459 x Diagonal image size + 0.0047

Calculation formula for distance from top of set to bottom edge of screen

A1 (m) = 0.2942 x Diagonal image size - 0.074

**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**

| | | |
|---|---|---|
| ET-DLE085 | minimum | L (m) = (diagonal screen size in inches) × 0.0183 - 0.0471 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0227 - 0.0442 |
| ET-DLE105 | minimum | L (m) = (diagonal screen size in inches) × 0.0228 - 0.0511 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0306 - 0.0472 |
| ET-DLE150 | minimum | L (m) = (diagonal screen size in inches) × 0.0300 - 0.0540 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0433 - 0.0498 |
| *Supplied lens/ ET-DLE170* | *minimum* | ***L (m) = (diagonal screen size in inches) × 0.0398 - 0.0746*** |
| | *maximum* | ***L (m) = (diagonal screen size in inches) × 0.0555 - 0.0725*** |
| ET-DLE250 | minimum | L (m) = (diagonal screen size in inches) × 0.0524 - 0.0800 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0828 - 0.0792 |
| ET-DLE350 | minimum | L (m) = (diagonal screen size in inches) × 0.0827 - 0.1351 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.1249 - 0.1346 |
| ET-DLE450 | minimum | L (m) = (diagonal screen size in inches) × 0.1251 - 0.3017 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.1979 - 0.2991 |
| ET-DLE030 | (fixed focus) | L1 (m) = (diagonal screen size in inches) × 0.0085 - 0.0047<br>L3 (m) = L1-0.166<br>L4 (m) = L1-0.679 |
| ET-DLE055 | (fixed focus) | L (m) = (diagonal screen size in inches) × 0.0184 - 0.0476 |

**Aspect ratio 16:9**

| | | |
|---|---|---|
| ET-DLE085 | minimum | L (m) = (diagonal screen size in inches) × 0.0188 - 0.0471 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0233 - 0.0442 |
| ET-DLE105 | minimum | L (m) = (diagonal screen size in inches) × 0.0234 - 0.0511 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0314 - 0.0472 |
| ET-DLE150 | minimum | L (m) = (diagonal screen size in inches) × 0.0309 - 0.0540 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0445 - 0.0498 |
| *Supplied lens/ ET-DLE170* | *minimum* | ***L (m) = (diagonal screen size in inches) × 0.0409 - 0.0746*** |
| | *maximum* | ***L (m) = (diagonal screen size in inches) × 0.0571 - 0.0725*** |
| ET-DLE250 | minimum | L (m) = (diagonal screen size in inches) × 0.0539 - 0.0800 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.0851 - 0.0792 |
| ET-DLE350 | minimum | L (m) = (diagonal screen size in inches) × 0.0850 - 0.1351 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.1284 - 0.1346 |
| ET-DLE450 | minimum | L (m) = (diagonal screen size in inches) × 0.1286 - 0.3017 |
| | maximum | L (m) = (diagonal screen size in inches) × 0.2034 - 0.2991 |
| ET-DLE030 | (fixed focus) | L1 (m) = (diagonal screen size in inches) × 0.0088 - 0.0047<br>L3 (m) = L1-0.166<br>L4 (m) = L1-0.679 |
| ET-DLE055 | (fixed focus) | L (m) = (diagonal screen size in inches) × 0.0189 - 0.0476 |

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

**Formula for calculating possible heights when using the ET-DLE030**

If using a screen size which has not been previously mentioned, use the following calculation formulas to obtain the possible setting-up height.

For screen aspect ratio of 16:10 Possible setting-up height A1 (mm) = Projection screen size (inches) x 6.6-74.0
Possible setting-up height A2 (mm) = A1 + 200

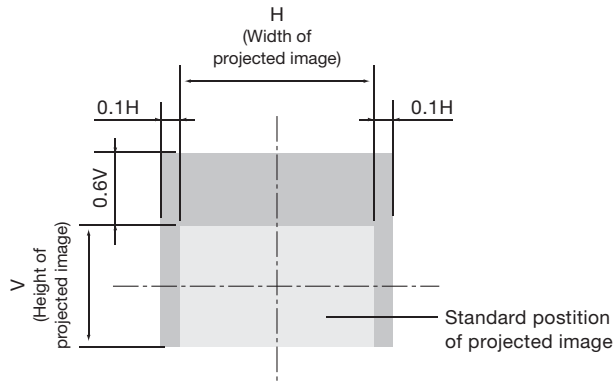
For screen aspect ratio of 16:9 Possible setting-up height A1 (mm) = Projection screen size (inches) x 7.5-74.0
Possible setting-up height A2 (mm) = A1 + 200

* There may be a small margin of error in the values obtained from the above formulas.

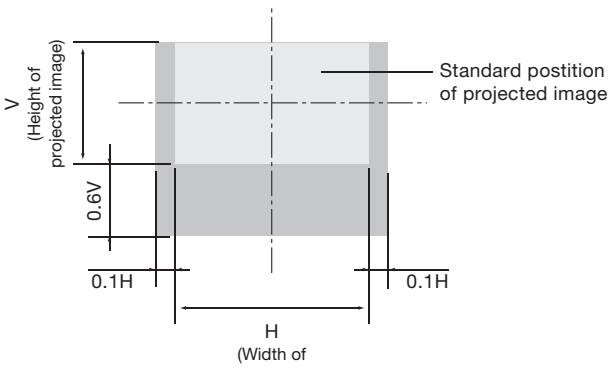
**Shift range**

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

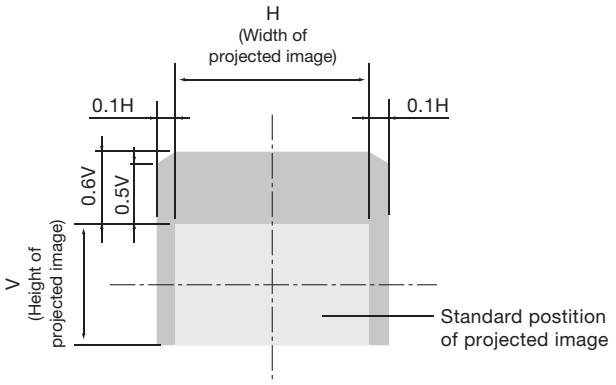
- **Floor mount**
  (When the lens except the ET-DLE085 and ET-DLE105 is mounted.)



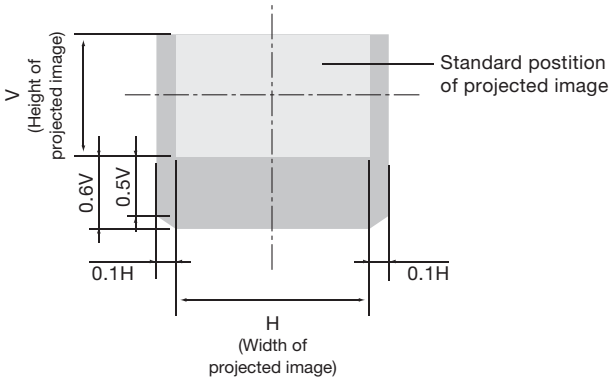

- **Ceiling mount**
  (When the lens except the ET-DLE085 and ET-DLE105 is mounted.)




- **Floor mount**
  (When the ET-DLE085 and ET-DLE105 is mounted.)




- **Ceiling mount**
  (When the ET-DLE085 and ET-DLE105 is mounted.)



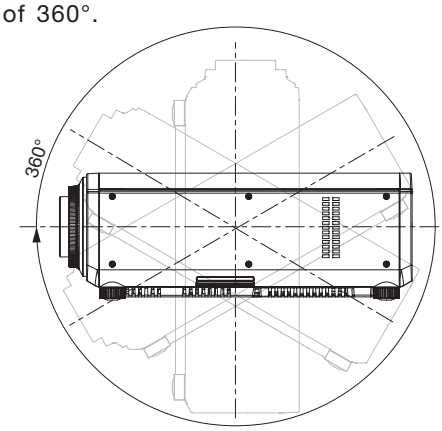

- **The ET-DLE055 has a fixed short-focus lens. Therefore, the lens shift function provided in the main unit cannot be used.**

**Installable angle**

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

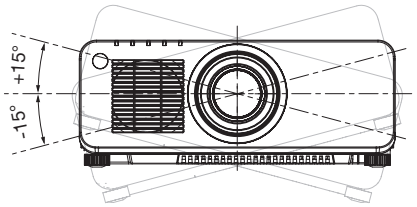
**• Vertical direction**

The projector may be installed at a vertical angle of 360°.



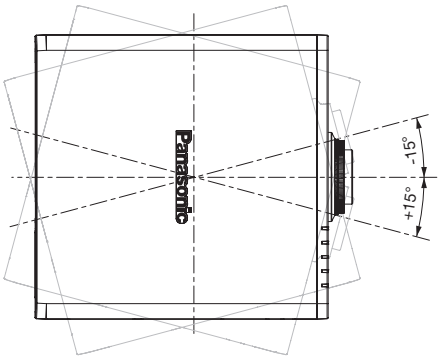

**• Horizontal direction**

The projector may be installed at a horizontal angle of ±15°.



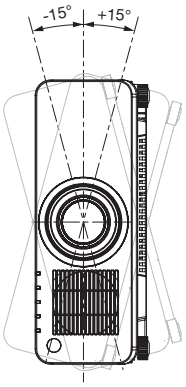

**• Vertical direction in portrait mode with the ET-LAD120P/LAD120PW mounted**

The projector may be installed at a vertical angle of ±15°.




**• Horizontal direction in portrait mode with the ET-LAD120P/LAD120PW mounted**

The projector may be installed at a horizontal angle of ±15°.




**NOTE: The projector cannot be vertically installed all by itself. Also, the terminal side must face downward when vertically installed.**

## 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 100 kHz, vertical scanning frequencies of 24 Hz to 120 Hz, and a dot clock of 162 MHz maximum can be input.

**NOTE: The native resolution of this projector is 1,920 × 1,200 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)* | Scanning frequency H (kHz) | Scanning frequency V (kHz) | Dot clock frequency (MHz) | Format |
|---|---|---|---|---|---|
| NTSC/NTSC4.43/PAL-M/PAL60 | 720 × 480i | 15.7 | 59.9 | – | VIDEO/S-VIDEO |
| PAL/PAL-N/SECAM | 720 × 576i | 15.6 | 50.0 | – | |
| 525i (480i) | 720 × 480i | 15.7 | 59.9 | 13.5 | $YC_BC_R$/RGB |
| 625i (576i) | 720 × 576i | 15.6 | 50.0 | 13.5 | |
| 525i (480i) | 720(1440) × 480i | 15.7 | 59.9 | 27.0 | HDMI/DVI-D |
| 625i (576i) | 720(1440) × 576i | 15.6 | 50.0 | | |
| 525p (480p) | 720 × 483 | 31.5 | 59.9 | 27.0 | $YC_BC_R$/RGB/ |
| 625p (576p) | 720 × 576 | 31.3 | 50.0 | | HDMI/DVI-D |
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | 74.3 | $YP_BP_R$/RGB/ |
| 750 (720)/50p | | 37.5 | 50.0 | | HDMI/DVI-D |
| 1125 (1080)/60i | 1920 × 1080i | 33.8 | 60.0 | | |
| 1125 (1080)/50i | | 28.1 | 50.0 | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | | |
| 1125 (1080)/24p | | 27.0 | 24.0 | | |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | | |
| 1125 (1080)/30p | 1920 × 1080 | 33.8 | 30.0 | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | 148.5 | |
| 1125 (1080)/50p | | 56.3 | 50.0 | | |
| VGA400 | 640 × 400 | 31.5 | 70.1 | 25.2 | HDMI/DVI-D/RGB |
| | | 37.9 | 85.1 | 31.5 | |
| VGA480 | 640 × 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 × 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 × 624 | 49.7 | 74.6 | 57.3 | |
| XGA | 1024 × 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 | |
| | | 98.8 | 120.0 | 139.1 | |
| MXGA | 1152 × 864 | 53.7 | 60.0 | 81.6 | |
| | | 64.0 | 70.0 | 94.2 | |
| | | 67.5 | 74.9 | 108.0 | |
| | | 77.1 | 85.0 | 119.7 | |
| MAC21 | 1152 × 870 | 68.7 | 75.1 | 100.0 | |

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

| Display mode | Display resolution (dots)*1 | Scanning frequency H (kHz) | Scanning frequency V (kHz) | Dot clock frequency (MHz) | Format |
|---|---|---|---|---|---|
| 1280 × 720 | 1280 × 720 | 37.1 | 49.8 | 60.5 | RGB/HDMI/DVI-D |
| | | 44.8 | 59.9 | 74.5 | |
| | | 76.3 | 100.0 | 131.8 | |
| | | 92.6 | 120.0 | 161.6 | |
| 1280 × 768 | 1280 × 768 | 39.6 | 49.9 | 65.3 | |
| | 1280 × 768*2 | 47.4 | 60.0 | 68.3 | |
| | 1280 × 768 | 47.8 | 59.9 | 79.5 | |
| | | 60.3 | 74.9 | 102.3 | |
| | | 68.6 | 84.9 | 117.5 | |
| 1280 × 800 | 1280 × 800 | 41.3 | 50.0 | 68.0 | |
| | 1280 × 800*2 | 49.3 | 59.9 | 71.0 | |
| | 1280 × 800 | 49.7 | 59.8 | 83.5 | |
| | | 62.8 | 74.9 | 106.5 | |
| | | 71.6 | 84.9 | 122.5 | |
| MSXGA | 1280 × 960 | 60.0 | 60.0 | 108.0 | |
| SXGA | 1280 × 1024 | 52.4 | 50.0 | 88.0 | |
| | | 64.0 | 60.0 | 108.0 | |
| | | 72.3 | 66.3 | 125.0 | |
| | | 78.2 | 72.0 | 135.1 | |
| | | 80.0 | 75.0 | 135.0 | |
| | | 91.1 | 85.0 | 157.5 | |
| 1366×768 | 1366 × 768 | 39.6 | 49.9 | 69.0 | |
| | | 47.7 | 59.8 | 85.5 | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | |
| | | 64.0 | 60.0 | 108.0 | |
| | | 65.2 | 60.0 | 122.6 | |
| | | 65.3 | 60.0 | 121.8 | |
| | | 78.8 | 72.0 | 149.3 | |
| | | 82.2 | 75.0 | 155.9 | |
| WXGA+ | 1440 × 900 | 46.3 | 49.9 | 86.8 | |
| | | 55.9 | 59.9 | 106.5 | |
| UXGA60 | 1600 × 1200 | 75.0 | 60.0 | 162.0 | |
| WSXGA+ | 1680 × 1050 | 54.1 | 50.0 | 119.5 | |
| | | 65.3 | 60.0 | 146.3 | |
| 1920×1080 | 1920 × 1080 | 55.6 | 49.9 | 141.5 | |
| | 1920 × 1080*2 | 66.6 | 59.9 | 138.5 | |
| | 1920 × 1080 | 67.2 | 60.0 | 173.0 | RGB |
| WUXGA | 1920 × 1200 | 61.8 | 49.9 | 158.3 | RGB/HDMI/DVI-D |
| | 1920 × 1200*2 | 74.0 | 60.0 | 154.0 | |
| | 1920 × 1080 | 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).**

**NOTE: DIGITAL LINK and HDMI inputs share the same compatible signal.**

### List of compatible 3D signals

The 3D signals that can be input to this projector are shown in the table below.

| Display mode | Display resolution (dots)*1 | Scanning frequency H (kHz) | Scanning frequency V (kHz) | Dot clock frequency (MHz) | HDMI Frame packing | HDMI Side by side*2 | HDMI Top and bottom | DVI Side by side*2 | DVI Top and bottom | DVI Line by line | DVI Frame sequential |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | 74.3 | Yes | Yes | Yes | Yes | Yes | Yes | – |
| 750 (720)/50p | | 37.5 | 50.0 | 74.3 | | | | | | | |
| 1125 (1080)/60i | 1920 × 1080i | 33.8 | 60.0 | 74.3 | | | – | | | – | |
| 1125 (1080)/50i | | 28.1 | 50.0 | 74.3 | | | | | | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | 74.3 | – | – | | | | | |
| 1125 (1080)/24p | | 27.0 | 24.0 | 74.3 | Yes | Yes | Yes | | | | |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | 74.3 | – | – | – | | | | |
| 1125 (1080)/30p | 1920 × 1080 | 33.8 | 30.0 | 74.3 | | | | | | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | 148.5 | | Yes | Yes | | | | |
| 1125 (1080)/50p | | 56.3 | 50.0 | 148.5 | | | | | | | |
| VGA480 | 640 × 480 | 31.5 | 59.9 | 25.2 | | – | – | | – | | |
| SVGA | 800 × 600 | 37.9 | 60.3 | 40.0 | | | | | | | |
| XGA | 1024 × 768 | 39.6 | 50.0 | 51.9 | Yes | Yes | Yes | | Yes | Yes | Yes |
| | | 48.4 | 60.0 | 65.0 | | | | | | | |
| | | 81.4 | 100.0 | 113.3 | – | – | – | – | – | – | |
| | | 98.8 | 120.0 | 139.1 | | | | | | | |
| MXGA | 1152 × 864 | 53.7 | 60.0 | 81.6 | | | | Yes | | | – |
| 1280 × 720 | 1280 × 720 | 37.1 | 49.8 | 60.5 | | | | | | | |
| | | 44.8 | 59.9 | 74.5 | | | | | | | |
| | | 76.3 | 100.0 | 131.8 | | | | – | | | Yes |
| | | 92.6 | 120.0 | 161.6 | | | | | | | |
| 1280 × 768 | 1280 × 768 | 39.6 | 49.9 | 65.3 | | | | Yes | | | – |
| | | 47.8 | 59.9 | 79.5 | | | | | | | |
| | 1280 × 768 *3 | 47.4 | 60.0 | 68.3 | | | | | | | |
| 1280 × 800 | 1280 × 800 | 41.3 | 50.0 | 68.0 | Yes | Yes | Yes | | Yes | Yes | Yes |
| | | 49.7 | 59.8 | 83.5 | | | | | | | |
| | 1280 × 800 *3 | 49.3 | 59.9 | 71.0 | | | | | | | |
| MSXGA | 1280 × 960 | 60.0 | 60.0 | 108.0 | – | – | – | | – | – | – |
| SXGA | 1280 × 1024 | 52.4 | 50.0 | 88.0 | | | | | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | | |
| 1366 × 768 | 1366 × 768 | 47.7 | 59.8 | 85.5 | | | | | | | |
| | | 39.6 | 49.9 | 69.0 | | | | | | | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | | | | – | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | | |
| | | 65.2 | 60.0 | 122.6 | | | | | | | |
| | | 65.3 | 60.0 | 121.8 | | | | | | | |
| WXGA+ | 1440 × 900 | 55.9 | 59.9 | 106.5 | | | | Yes | | | |
| | | 46.3 | 49.9 | 86.8 | | | | | | | |
| UXGA60 | 1600 × 1200 | 75.0 | 60.0 | 162.0 | | | | | | | |
| WSXGA+ | 1680 × 1050 | 65.3 | 60.0 | 146.3 | | | | | | | |
| | | 54.1 | 50.0 | 119.5 | | | | | | | |
| 1920 × 1080 | 1920 × 1080 | 55.6 | 49.9 | 141.5 | | | | | | | |
| | 1920 × 1080 *3 | 66.6 | 59.9 | 138.5 | | | | | | | |
| WUXGA | 1920 × 1200 | 61.8 | 49.9 | 158.3 | | | | | | | |
| | 1920 × 1200 *3 | 74.0 | 60.0 | 154.0 | | | | | | Yes | |

***1 The "i" appearing after the resolution indicates an interlaced signal.**
***2 Compatible with half-resolution signals.**
***3 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**

| Display mode | Display resolution (dots)*1 | Scanning frequency H (kHz) | Scanning frequency V (kHz) | Dot clock frequency (MHz) | RGB1/RGB2 | | | | HDMI & DVI | RGB1 & RGB2 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Side by side*2 | Top and bottom | Line by line | Frame sequential | Simultaneous | Simultaneous |
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | 74.3 | Yes | Yes | Yes | – | Yes | Yes |
| 750 (720)/50p | | 37.5 | 50.0 | 74.3 | | | | | | |
| 1125 (1080)/60i | 1920 × 1080i | 33.8 | 60.0 | 74.3 | | | – | | | |
| 1125 (1080)/50i | | 28.1 | 50.0 | 74.3 | | | | | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | 74.3 | | | | | | |
| 1125 (1080)/24p | | 27.0 | 24.0 | 74.3 | | | | | | |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | 74.3 | | | | | | |
| 1125 (1080)/30p | 1920 × 1080 | 33.8 | 30.0 | 74.3 | | | | | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | 148.5 | | | | | | |
| 1125 (1080)/50p | | 56.3 | 50.0 | 148.5 | | | | | | |
| VGA480 | 640 × 480 | 31.5 | 59.9 | 25.2 | | – | | | – | – |
| SVGA | 800 × 600 | 37.9 | 60.3 | 40.0 | | | | | | |
| XGA | 1024 × 768 | 39.6 | 50.0 | 51.9 | | | | | Yes | Yes |
| | | 48.4 | 60.0 | 65.0 | | | | | | |
| | | 81.4 | 100.0 | 113.3 | – | | | Yes | – | – |
| | | 98.8 | 120.0 | 139.1 | | | | | | |
| MXGA | 1152 × 864 | 53.7 | 60.0 | 81.6 | Yes | | | – | | |
| 1280 × 720 | 1280 × 720 | 37.1 | 49.8 | 60.5 | | | | | | |
| | | 44.8 | 59.9 | 74.5 | | | | | | |
| | | 76.3 | 100.0 | 131.8 | – | | | Yes | | |
| | | 92.6 | 120.0 | 161.6 | | | | | | |
| 1280 × 768 | 1280 × 768 | 39.6 | 49.9 | 65.3 | Yes | | | – | | |
| | | 47.8 | 59.9 | 79.5 | | | | | | |
| | 1280 × 768 *3 | 47.4 | 60.0 | 68.3 | | | | | | |
| 1280 × 800 | 1280 × 800 | 41.3 | 50.0 | 68.0 | | | | | Yes | Yes |
| | | 49.7 | 59.8 | 83.5 | | | | | | |
| | 1280 × 800 *3 | 49.3 | 59.9 | 71.0 | | | | | | |
| MSXGA | 1280 × 960 | 60.0 | 60.0 | 108.0 | | | | | – | – |
| SXGA | 1280 × 1024 | 52.4 | 50.0 | 88.0 | | | | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | |
| 1366 × 768 | 1366 × 768 | 39.6 | 49.9 | 69.0 | | | | | | |
| | | 47.7 | 59.8 | 85.5 | | | | | | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | | | | | | |
| | | 64.0 | 60.0 | 108.0 | | | | | | |
| | | 65.2 | 60.0 | 122.6 | | | | | | |
| | | 65.3 | 60.0 | 121.8 | | | | | | |
| WXGA+ | 1440 × 900 | 55.9 | 59.9 | 106.5 | | | | | | |
| | | 46.3 | 49.9 | 86.8 | | | | | | |
| UXGA60 | 1600 × 1200 | 75.0 | 60.0 | 162.0 | | | | | | |
| WSXGA+ | 1680 × 1050 | 65.3 | 60.0 | 146.3 | | | | | | |
| | | 54.1 | 50.0 | 119.5 | | | | | | |
| 1920 × 1080 | 1920 × 1080 | 55.6 | 49.9 | 141.5 | | | | | | |
| | 1920 × 1080 *3 | 66.6 | 59.9 | 138.5 | | | | | | |
| WUXGA | 1920 × 1200 | 61.8 | 49.9 | 158.3 | | | | | Yes | Yes |
| | 1920 × 1200 *3 | 74.0 | 60.0 | 154.0 | | | Yes | | | |

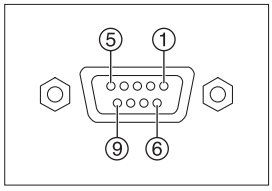
***1 The "i" appearing after the resolution indicates an interlaced signal.**
***2 Compatible with half-resolution signals.**
***3 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**

**NOTE: DIGITAL LINK and HDMI inputs share the same compatible signal.**

### Serial connector

The serial connector complies with RS-232C. To control the projector from a personal computer, commands must be input through communication software, based on the format and satisfying the communication conditions shown below.

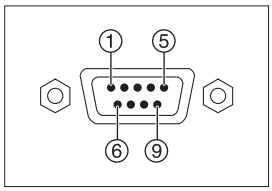
### Pin assignments and signal names




D-sub 9-pin (female) Serial input

| No. | Signal name | Description | No. | Signal name | Description |
|---|---|---|---|---|---|
| 1 | – | NC | 6 | – | NC |
| 2 | TXD | Send data | 7 | CTS | Connected internally |
| 3 | RXD | Receive data | 8 | RTS | Connected internally |
| 4 | – | NC | 9 | – | NC |
| 5 | GND | Ground | | | |

### Pin assignments and signal names




D-sub 9-pin (male) Serial output

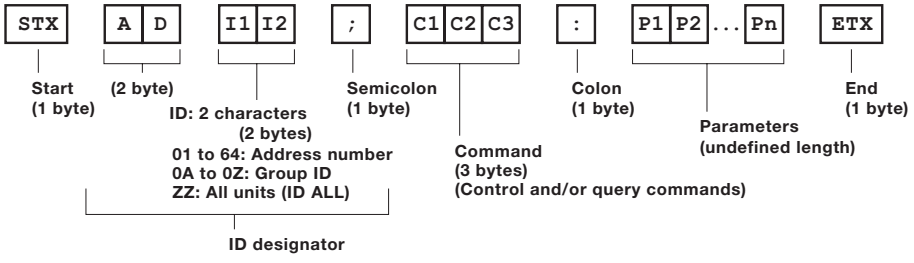
| No. | Signal name | Description | No. | Signal name | Description |
|---|---|---|---|---|---|
| 1 | – | NC | 6 | – | NC |
| 2 | RXD | Receive data | 7 | RTS | Connected internally |
| 3 | TXD | Send data | 8 | CTS | Connected internally |
| 4 | – | NC | 9 | – | NC |
| 5 | GND | Ground | | | |

### Communication conditions (factory setting)

| | |
|---|---|
| Signal level | RS-232C-compliant |
| Synchronization method | Start-stop synchronization |
| Baud rate | 9,600 bps |
| Parity | None |
| Character length | 8 bits |
| Stop bit | 1 bit |
| X parameter | None |
| S parameter | None |

### Basic format

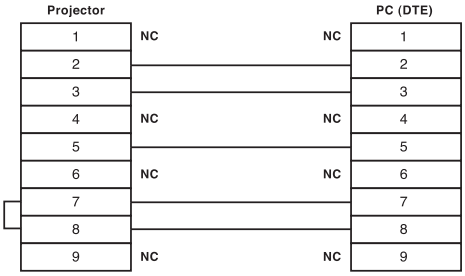
Transmission from the computer begins with STX, then the ID, command, parameter, and ETX are sent in this order. Add parameters according to the details of control.




**CAUTION**

- **It may not be possible to send or receive commands for about 10 to 60 seconds when the lamp is first turned on. If this occurs, wait for 60 seconds, then try sending or receiving again.**
- **When sending multiple commands, be sure to wait for at least 0.5 second after receiving a response from the projector before sending the next command.**
- **Additional time is sometimes required for response due to processing inside the projector. Set the time-out period for command response to 10 seconds or more.**
- **When using two or more units:**
  **1) Set different IDs for each unit.**
  **2) Designate only one unit as RESPONSE (ID ALL) ON and the rest as RESPONSE (ID ALL) OFF.**
  **3) Each group should have only one RESPONSE (ID GROUP) ON and the rest should be RESPONSE (ID GROUP) OFF.**

## Cable specifications




## Control commands

| Command : Parameter | Function | | Callback |
|---|---|---|---|
| PON | POWER (STANDBY) | Standby power on | PON |
| POF | | Standby power off | POF |
| OSH:0 | SHUTTER | Shutter off | OSH:0 |
| OSH:1 | | Shutter on | OSH:1 |
| IIS:DL1 | INPUT SELECT | DIGITAL LINK | IIS:DL1 |
| IIS:HD1 | | HDMI | IIS:HD1 |
| IIS:DVI | | DVI | IIS:DVI |
| IIS:RG1 | | RGB 1 | IIS:RG1 |
| IIS:RG2 | | RGB 2 | IIS:RG2 |
| IIS:VID | | Video | IIS:VID |
| VXX:RYC1=+00000 | RGB INPUT SETTING | RGB/YCBCR/RGB | VXX:RYC1=+00000 |
| VXX:RYC1=+00001 | | S-Video | VXX:RYC1=+00001 |
| IIS:DL1:HD1 | When an ET-YFB100G digital interface box is connected, the ET-YFB100G input switches at the same time as input is switched to the digital link input. | HDMI 1 | IIS:DL1:HD1 |
| IIS:DL1:HD2 | | HDMI 2 | IIS:DL1:HD2 |
| IIS:DL1:PC1 | | Computer 1 | IIS:DL1:PC1 |
| IIS:DL1:PC2 | | Computer 2 | IIS:DL1:PC2 |
| IIS:DL1:VID | | Video | IIS:DL1:VID |
| IIS:DL1:SVD | | S-Video | IIS:DL1:SVD |
| LPM:0 | LAMP SELECT | Dual (two lamps) | LPM:0 |
| LPM:1 | | Single lamp | LPM:1 |
| LPM:2 | | Lamp 1 | LPM:2 |
| LPM:3 | | Lamp 2 | LPM:3 |
| OLP:0 | Lamp power | Normal | OLP:0 |
| OLP:1 | | Eco | OLP:1 |
| VSE:1 | ASPECT RATIO SWITCHING | Standard/VID Auto | VSE:1 |
| VSE:2 | | 4:3 | VSE:2 |
| VSE:5 | | 16:9 | VSE:5 |
| VSE:6 | | HV fit | VSE:6 |
| VSE:9 | | H fit | VSE:9 |
| VSE:10 | | V fit | VSE:10 |
| OAS | AUTO SETUP | | OAS |
| VPM:NAT | PICTURE MODE | Natural | VPM:NAT |
| VPM:STD | | Standard | VPM:STD |
| VPM:DYN | | Dynamic | VPM:DYN |
| VPM:CIN | | Cinema | VPM:CIN |
| VPM:GRA | | Graphic | VPM:GRA |
| VPM:709 | | Rec.709 | VPM:709 |
| VPM:DIC | | DICOM | VPM:DIC |
| VXX:DLVI0=+00000 | SYSTEM DAYLIGHT VIEW | Off | VXX:DLVI0=+00000 |
| VXX:DLVI0=+00001 | | 1 | VXX:DLVI0=+00001 |
| VXX:DLVI0=+00002 | | 2 | VXX:DLVI0=+00002 |
| VXX:DLVI0=+00003 | | 3 | |
| OTE:4 | COLOR TEMPERATURE | User 1 | OTE:4 |
| OTE:9 | | User 2 | OTE:9 |
| OTE:10 | | Default | OTE:10 |
| OTE:3200 | | 3200K | OTE:3200 |
| OTE:3300 | | 3200K | OTE:3300 |
| : | | : | : |
| OTE:9200 | | 3200K | OTE:9200 |
| OTE:9300 | | 3200K | OTE:9300 |
| TSD:y1y2y3y4m1m2d1d2w | DATE | Date setting | TSD:y1y2y3y4m1m2d1d2w |
| TST:h1h2m1m2s1s2 | TIME | Time setting | TST:h1h2m1m2s1s2 |
| OOS:0 | ON SCREEN | On-screen display off | OOS:0 |
| OOS:1 | | On-screen display on | OOS:1 |

*** Do not send PON, POF, or OSH commands continuously in a short period of time. Doing so may burst the lamp or shorten the lamp replacement cycle.**

*** When a command that cannot be executed during standby mode is sent, the projector will send an ER401 command in reply.**

### Status request commands

| Command:Parameter | Function | Callback | Description |
|---|---|---|---|
| QPW | Main power status | 000 | Off |
| | | 001 | On |
| QSH | Shutter function status | 0 | Off |
| | | 1 | On |
| QIN | Input signal status | DL1 | DIGITAL LINK |
| | | HD1 | HDMI |
| | | DVI | DVI |
| | | RG1 | RGB 1 |
| | | RG2 | RGB 2 |
| | | VID | Video |
| | Input channel for ET-YFB100G digital interface box during digital link input selection | DL1:HD1 | HDMI 1 |
| | | DL1:HD2 | HDMI 2 |
| | | DL1:PC1 | Computer 1 |
| | | DL1:PC2 | Computer 2 |
| | | DL1:VID | Video |
| | | DL1:SVD | S-Video |
| QSL | Lamp operation mode status | 0 | Dual (two lamps) |
| | | 1 | Single lamp |
| | | 2 | lamp 1 |
| | | 3 | lamp 2 |
| QLP | Lamp power mode status | 0 | Normal |
| | | 1 | Eco |
| QPM | Picture mode status | NAT | Natural |
| | | STD | Standard |
| | | DYN | Dynamic |
| | | CIN | Cinema |
| | | GRA | Graphic |
| | | 709 | Rec. 709 |
| | | DIC | DICOM |
| QVX:DLVI0 | System daylight view status | DLVI0=+00000 | Off |
| | | DLVI0=+00001 | 1 |
| | | DLVI0=+00002 | 2 |
| | | DLVI0=+00003 | 3 |
| QST | Projector run time | p1p2p3p4p5 | 00000h–99999h |
| Q$L:1 | Lamp 1 run time | p1p2p3p4 | 0000h–9999h |
| Q$L:2 | Lamp 2 run time | p1p2p3p4 | 0000h–9999h |
| QTM:0 | Temperature status | p1p2p3p4/p5p6p7p8*1 | p0 = Intake air |
| QTM:1 | | | p1 = Around lamp |
| QTM:2 | | | p2 = Optics module |
| QGD | Date setting status | y1y2y3y4m1m2d1d2w | yyyymmdd (day of week)*2 |
| QGT | Time setting status | h1h2m1m2s1s2 | hhmmss*3 |
| QOS | On-screen display status | 0 | Off |
| | | 1 | On |

*1 p1p2p3p4: Celsius (°C), p5p6p7p8: Fahrenheit (°F)

*2 Day of week: Monday = 1, Tuesday = 2, ... Sunday = 7

*3 Set the date and time to UTC (universal time coordinated).

*** When a wrong command is sent, the projector will send an ER401 or ER402 command in reply.**

### Command example

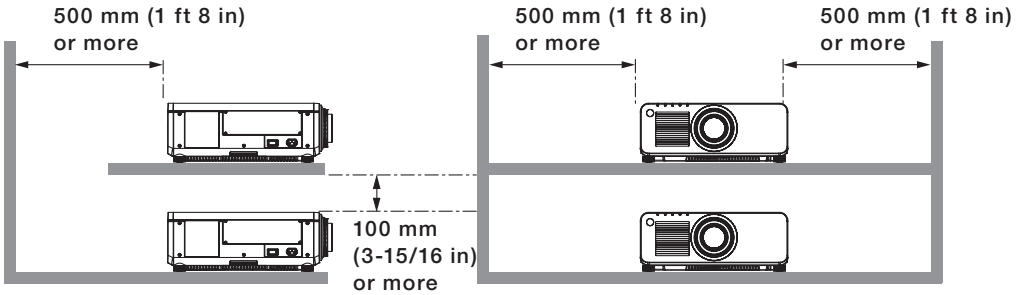
To set the on-screen display off, send the command as shown below.

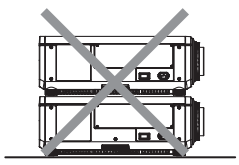

**NOTE: When sending commands without parameters, a colon (:) is not necessary.**

**Notes on projector placement and operation**

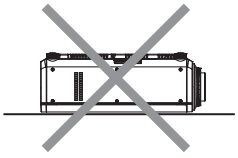
The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

1. Never place objects on top of the projector.
2. Make sure there is an unobstructed space of 500 mm (1 feet 8 inches) or more around the projector's exhaust openings.
3. Do not stack projector units directly on top of one another for the purpose of multiple (stacked) projection. When stacking projector units, be sure to provide the amount of space indicated below between them. These space requirements also apply to installations where only one projector unit is operating at one time and the other unit is used as a backup.
4. 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.
5. 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.
6. If the projector is installed in an enclosed space, ensure that the projector's intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake openings.
7. When installing the projector in any manner other than floor mounting with the adjuster legs, use the six threaded ceiling mount holes (screw diameter: M6, projector interior thread length: 12 mm) to secure the projector.



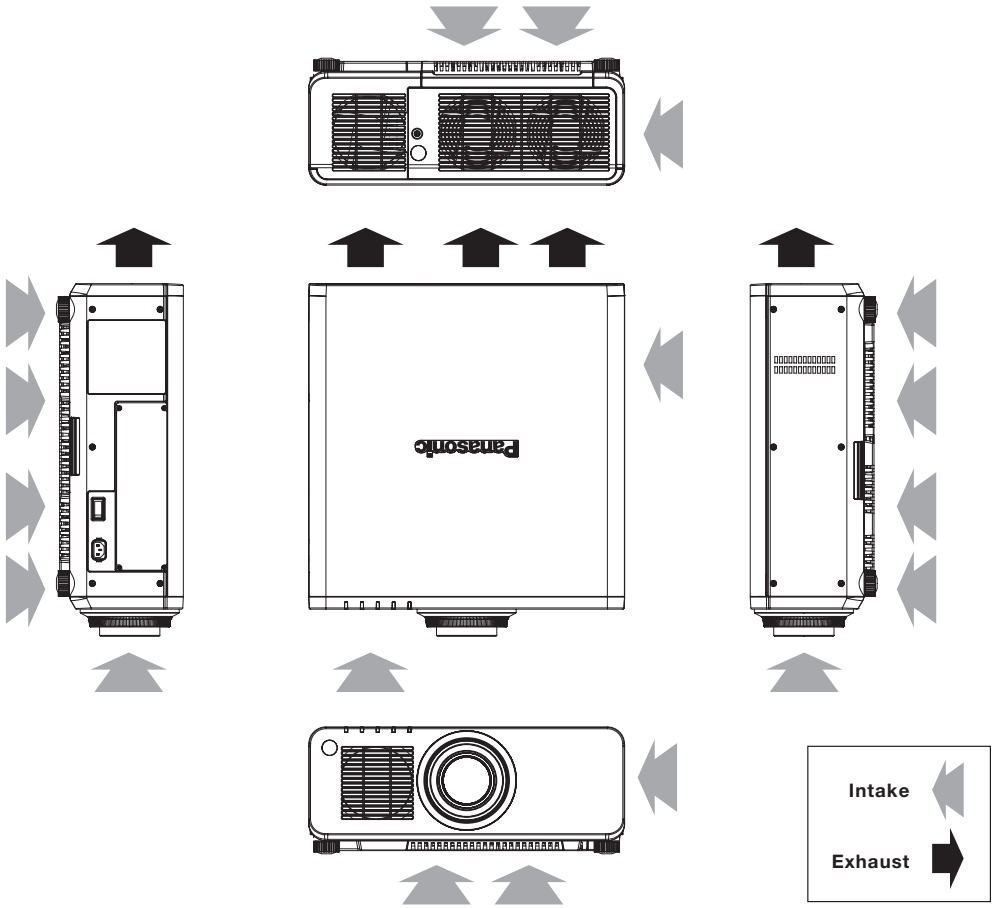



Do not stack projector units directly on top of one another.



Do not support the projector unit by its top while it is in use.

**Direction of air intake and exhaust**




**Operating the projector continuously**

1. If the projector is to be operated continuously for one week, use the dual-lamp optical system's alternating lamp operation (lamp relay) function. The projector cannot be operated continuously one week in dual-lamp mode. Allow a minimum of two hours per day of non-operation time for each lamp if the projector is to be operated continuously for more than one week.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.