
S P E C F I L E

Product Number : PT-**DX820W/DX820LW**
PT-**DX820B/DX820LB**

Product Name : DLP™ Projectors

Specifications

Main unit

| | | |
|-------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply | | 120–240 V AC, 50/60 Hz |
| Power consumption | | 790 W (810 VA) (0.3 W with STANDBY MODE set to ECO*1, 3 W with STANDBY MODE set to NORMAL) max. 2,696 BTU (without light output: 2,601 BTU) |
| DLP™ chip | Panel size | 17.8 mm (0.7 in) diagonal (4:3 aspect ratio) |
| | Display method | DLP™ chip × 1, DLP™ system |
| | Pixels | 786,432 (1,024 × 768) × 1, total of 786,432 pixels |
| Lens | PT-DX820W/B | Powered zoom/focus lenses (1.8–2.5:1), F 1.7–1.9, f 25.6–35.7 mm |
| | PT-DX820LW/LB | Optional powered zoom/focus lenses and fixed-focus lens |
| Lamp | | 310 W UHM lamps (× 2) |
| Screen size | | 1.27–15.24 m (50–600 inches) *1.27 – 5.08 m (50 – 200 inches) with the ET-DLE055 (4:3 aspect ratio) *2.54 – 8.89 m (100 – 350 inches) with the ET-DLE030 (4:3 aspect ratio) |
| Brightness*2 | | 8,200 lumens (dual lamp, LAMP MODE: NORMAL) |
| Center-to-corner uniformity*2 | | 90% |
| Contrast*2 | | 2,400:1 (full on/full off) |
| Resolution | | 1,024 × 768 pixels |
| Scanning frequency | HDMI/DVI-D | fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 25–162 MHz |
| | RGB | fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 20–162 MHz |
| | YPbPr (YCbCr) | 525i (480i): fH 15.75 kHz; fV 60 Hz, 625i (576i): fH 15.63 kHz; fV 50 Hz, 525p (480p): fH 31.50 kHz; fV 60 Hz, 625p (576p): fH 31.25 kHz; fV 50 Hz, 750 (720)/60p: fH 45.00 kHz; fV 60 Hz, 750 (720)/50p: fH 37.50 kHz; fV 50 Hz, 1125 (1035)/60i: fH 33.75 kHz; fV 60 Hz, 1125 (1080)/60i: fH 33.75 kHz; fV 60 Hz, 1125 (1080)/50i: fH 28.13 kHz; fV 50 Hz, 1125 (1080)/25p: fH 28.13 kHz; fV 25 Hz, 1125 (1080)/24p: fH 27.00 kHz; fV 24 Hz, 1125 (1080)/24sF: fH 27.00 kHz; fV 48 Hz, 1125 (1080)/30p: fH 33.75 kHz; fV 30 Hz, 1125 (1080)/60p: fH 67.50 kHz; fV 60 Hz, 1125 (1080)/50p: fH 56.25 kHz; fV 50 Hz |
| | Video/YC | fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM] |
| Optical axis shift | | Vertical: -13% – +50% (powered) (-13% – +45% with the ET-DLE085) horizontal: -10% – +30% (powered) (-10% – +28% with the ET-DLE085) 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°, horizontal: ±15° (Vertical: ±22° with the ET-DLE085/DLE055), (Vertical: +5° with the ET-DLE030) Curved correction (Geometric adjustment) 4 corner correction |
| Installation | | Ceiling/floor, front/rear |

| | | |
|-----------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminals | HDMI IN | HDMI 19-pin × 1, Deep Color, compatible with HDCP, |
| | DVI-D IN | DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible, for single link only |
| | RGB 1 IN R, G, B | BNC × 5 R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals. |
| | Y, PB, PR (Y, CB, CR) YC signal Video signal | Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms 1.0 Vp-p, 75 ohms |
| | RGB 2 IN R, G, B | D-sub HD 15-pin (female) × 1 R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic 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 |
| | 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) connection, 100Base-TX, compatible with Art-Net, compliant with PLink™ (class 1), Deep Color, compatible with HDCP, |
| | USB | DC OUT (5V/0.9A) |

| | |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power cord length | 3.0 m (9 ft 10 in) |
| Cabinet materials | Molded plastic (PT-DX820W/DX820LW : White) (PT-DX820B/DX820LB : Black) |
| Dimensions (W × H × D) | 498 × 175* ³ × 521 mm (19-19/32 × 6-7/8* ³ × 20-1/2 inches) (with supplied lens) 498 × 175* ³ × 508 mm (19-19/32 × 6-7/8* ³ × 20 inches) (without lens, with lens cap) 498 × 175* ³ × 498 mm (19-19/32 × 6-7/8* ³ × 19-19/32 inches) (without lens and lens cap) |
| Weight* ⁴ | Approx. 17.8 kg (39.2 lbs) (with supplied lens) Approx. 17.0 kg (37.5 lbs) (without lens) |
| Operation noise* ² | 30 dB (dual lamp operation, LAMP MODE: NORMAL), 28 dB (dual lamp operation, LAMP MODE: ECO) |
| Operating temperature | 0–45 °C (32–113 °F)* ⁵ |
| Operating humidity | 10%–80% (no condensation) |

Remote control unit

| | |
|------------------------|---------------------------------------------------------------------------------------|
| Power supply | 3 V DC (AAA type battery × 2) |
| Operation range | 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)
- Wireless/wired remote control unit (× 1)
- Batteries for remote control (AAA type × 2)
- Operating Instructions (× 1)
- Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software)e) (× 1)
- Lens Mount cover (× 1)
- Lens cover (× 1)
- Clasp for lamp unit (× 2)

Optional accessories

| | |
|-------------------------------------------------------------|-----------------------------------------------------------------|
| Digital interface box | ET-YFB100G |
| Digital LINK Switcher | ET-YFB200G |
| Zoom lens (0.8–1.0:1) | ET-DLE085 |
| Zoom lens (1.3–2.0:1) | ET-DLE150 |
| Zoom lens (2.4–3.7:1) | ET-DLE250 |
| Zoom lens (3.7–5.6:1) | ET-DLE350 |
| Zoom lens (5.5–8.9:1) | ET-DLE450 |
| Fixed-focus lens (0.4:1) | ET-DLE030 |
| Fixed-focus lens (0.8:1) | ET-DLE055 |
| Ceiling mount bracket | ET-PKD120H (for high ceilings) ET-PKD120S (for low ceilings) |
| High-ceiling mount bracket (6-axis adjustment mechanism) | ET-PKD130H |
| Attachment for ceiling mount bracket | ET-PKD130B |
| Early Warning Software | ET-SWA100 |
| Replacement lamp unit | ET-LAD70 ET-LAD70W (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.

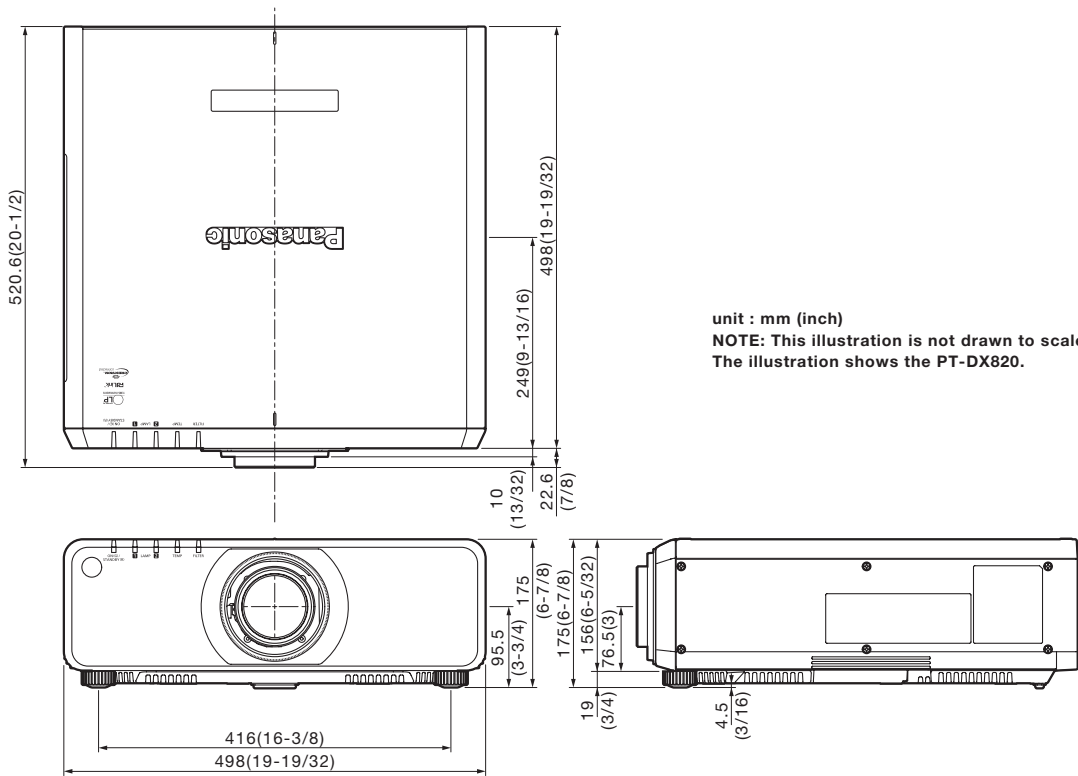
*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*3 With legs at shortest position.

*4 Average value. May differ depending on models.

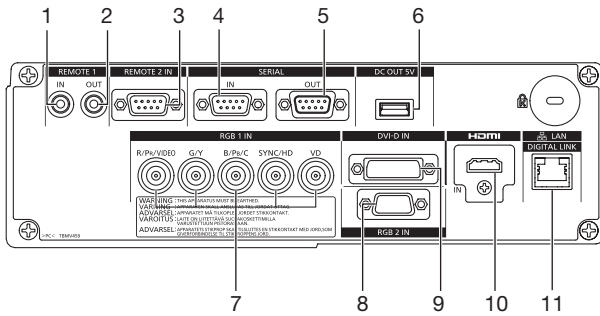
*5 When using the projector at elevations lower than 2,700 m(8,858") above sea level, and the operating environment temperature becomes 35 °C (95 °F) or higher, the light output may be reduced to protect the projector. When using the projector at elevations between 2,700 m(8,858") and 4,200 m(13,780"), and the operating environment temperature becomes 25 °C (77 °F) or higher, the light output may be reduced to protect the projector.

Dimensions



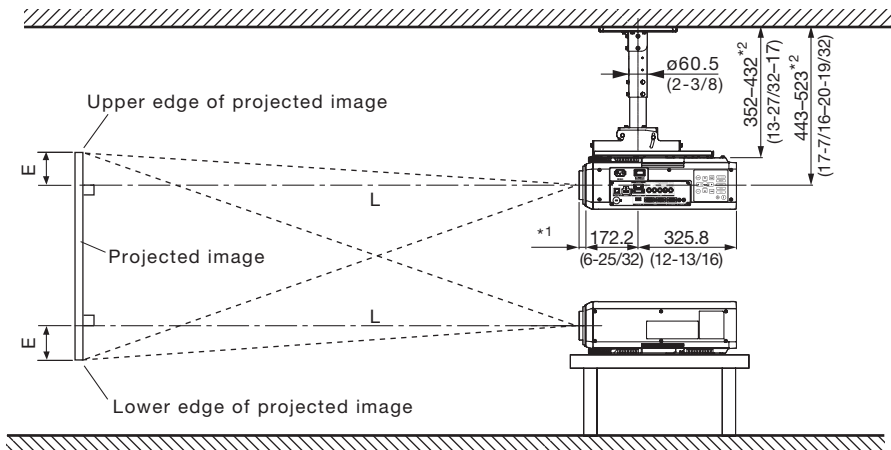
unit : mm (inch)
 NOTE: This illustration is not drawn to scale.
 The illustration shows the PT-DX820.

Terminals



- 1 Remote 1 input
- 2 Remote 1 output
- 3 Remote 2 input
- 4 Serial input
- 5 Serial output
- 6 Dc out 5v
- 7 RGB 1 input
- 8 RGB 2 Input
- 9 DVI-D input
- 10 HDMI input
- 11 LAN/DIGITAL LINK connector

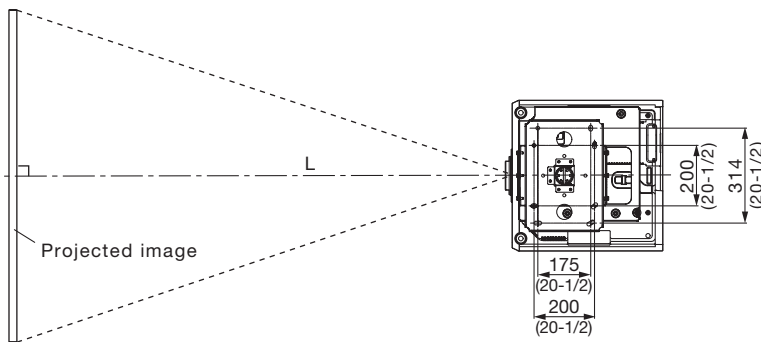
Standard setting-up position (If using other than the ET-DLE030)



*1 When the lens protrudes to the maximum.
 64 mm (2-17/32 in) with the ET-DLE085
 23 mm (29/32 in) with the supplied lens
 24 mm (15/16 in) with the ET-DLE150
 25 mm (31/32 in) with the ET-DLE250
 31 mm (1-7/32 in) with the ET-DLE350
 75 mm (2-15/16 in) with the ET-DLE450
 7 mm (9/32 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 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 4:3 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 | Zoom lenses | | Fixed- focus lens |
| | | ET-DLE080/ DLE085 Zoom lens | | ET-DLE150 Zoom lens | | Supplied lens | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | | ET-DLE055 Fixed-focus lens | Supplied lens ET-DLE150/ 250/350/450 | |
| [m] | [in] | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | | max. | min. |
| 1.27/ | 50 | 0.81 | 1.01 | 1.34 | 1.97 | 1.78 | 2.51 | 2.36 | 3.78 | 3.71 | 5.68 | 5.52 | 8.91 | 0.81 | 0.00 – 0.38 | 0.04 – 0.38 | 0.38 |
| 1.52/ | 60 | 0.98 | 1.22 | 1.62 | 2.37 | 2.15 | 3.03 | 2.85 | 4.55 | 4.48 | 6.84 | 6.69 | 10.75 | 0.98 | 0.00 – 0.46 | 0.05 – 0.46 | 0.46 |
| 1.78/ | 70 | 1.15 | 1.43 | 1.90 | 2.77 | 2.52 | 3.55 | 3.34 | 5.32 | 5.25 | 8.01 | 7.86 | 12.60 | 1.15 | 0.00 – 0.53 | 0.05 – 0.53 | 0.53 |
| 2.03/ | 80 | 1.32 | 1.64 | 2.18 | 3.18 | 2.89 | 4.06 | 3.83 | 6.09 | 6.02 | 9.17 | 9.02 | 14.44 | 1.32 | 0.00 – 0.61 | 0.06 – 0.61 | 0.61 |
| 2.29/ | 90 | 1.49 | 1.85 | 2.46 | 3.58 | 3.26 | 4.58 | 4.31 | 6.86 | 6.79 | 10.33 | 10.19 | 16.28 | 1.49 | 0.00 – 0.69 | 0.07 – 0.69 | 0.69 |
| 2.54/ | 100 | 1.66 | 2.07 | 2.74 | 3.98 | 3.63 | 5.10 | 4.80 | 7.63 | 7.56 | 11.50 | 11.35 | 18.12 | 1.66 | 0.00 – 0.76 | 0.08 – 0.76 | 0.76 |
| 3.05/ | 120 | 2.00 | 2.49 | 3.30 | 4.79 | 4.37 | 6.13 | 5.78 | 9.17 | 9.10 | 13.82 | 13.68 | 21.81 | 2.01 | 0.00 – 0.91 | 0.09 – 0.91 | 0.91 |
| 3.81/ | 150 | 2.51 | 3.12 | 4.14 | 6.00 | 5.48 | 7.68 | 7.24 | 11.49 | 11.41 | 17.31 | 17.18 | 27.33 | 2.52 | 0.00 – 1.14 | 0.11 – 1.14 | 1.14 |
| 5.08/ | 200 | 3.36 | 4.18 | 5.54 | 8.02 | 7.33 | 10.26 | 9.69 | 15.34 | 15.26 | 23.13 | 23.00 | 36.54 | 3.38 | 0.00 – 1.52 | 0.15 – 1.52 | 1.52 |
| 6.35/ | 250 | 4.21 | 5.23 | 6.94 | 10.03 | 9.18 | 12.85 | 12.13 | 19.20 | 19.11 | 28.94 | 28.83 | 45.75 | – | 0.00 – 1.91 | 0.19 – 1.91 | – |
| 7.62/ | 300 | 5.07 | 6.29 | 8.33 | 12.05 | 11.03 | 15.43 | 14.57 | 23.06 | 22.96 | 34.76 | 34.66 | 54.97 | – | 0.00 – 2.29 | 0.23 – 2.29 | – |
| 8.89/ | 350 | 5.92 | 7.34 | 9.73 | 14.07 | 12.88 | 18.02 | 17.01 | 26.91 | 26.80 | 40.57 | 40.48 | 64.18 | – | 0.00 – 2.67 | 0.27 – 2.67 | – |
| 10.16/ | 400 | 6.77 | 8.40 | 11.13 | 16.08 | 14.73 | 20.60 | 19.45 | 30.77 | 30.65 | 46.39 | 46.31 | 73.39 | – | 0.00 – 3.05 | 0.30 – 3.05 | – |
| 12.70/ | 500 | 8.48 | 10.51 | 13.92 | 20.12 | 18.43 | 25.77 | 24.33 | 38.48 | 38.35 | 58.02 | 57.96 | 91.81 | – | 0.00 – 3.81 | 0.38 – 3.81 | – |
| 15.24/ | 600 | 10.18 | 12.62 | 16.72 | 24.15 | 22.13 | 30.94 | 29.22 | 46.19 | 46.05 | 69.65 | 69.61 | 110.23 | – | 0.00 – 4.57 | 0.46 – 4.57 | – |

Unit: feet

| Screen size (diagonal) | | Distance to screen (L) | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | | | |
|---------------------------|------|-----------------------------------|------|------------------------|------|---------------|--------------|------------------------|-------|------------------------|-------|------------------------|-------|---------------------------------------------------------|----------------------------------|--------------------------------------------|-------------------------|
| | | Zoom | | | | | | | | | | | | Fixed-focus | Zoom lenses | | Fixed- focus lens |
| | | ET-DLE080/ DLE085 Zoom lens | | ET-DLE150 Zoom lens | | Supplied lens | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | | ET-DLE055 Fixed-focus lens | Supplied lens ET-DLE150/ 250/350/450 | |
| [m] | [in] | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | | max. | min. |
| 1.27/ | 50 | 2.6 | 3.3 | 4.4 | 6.5 | 5.8 | 8.2 | 7.7 | 12.4 | 12.2 | 18.6 | 18.1 | 29.2 | 2.7 | 0.0 – 1.3 | 0.1 – 1.3 | 1.3 |
| 1.52/ | 60 | 3.2 | 4.0 | 5.3 | 7.8 | 7.0 | 9.9 | 9.3 | 14.9 | 14.7 | 22.5 | 21.9 | 35.3 | 3.2 | 0.0 – 1.5 | 0.2 – 1.5 | 1.5 |
| 1.78/ | 70 | 3.8 | 4.7 | 6.2 | 9.1 | 8.3 | 11.6 | 11.0 | 17.5 | 17.2 | 26.3 | 25.8 | 41.3 | 3.8 | 0.0 – 1.8 | 0.2 – 1.8 | 1.8 |
| 2.03/ | 80 | 4.3 | 5.4 | 7.2 | 10.4 | 9.5 | 13.3 | 12.6 | 20.0 | 19.8 | 30.1 | 29.6 | 47.4 | 4.3 | 0.0 – 2.0 | 0.2 – 2.0 | 2.0 |
| 2.29/ | 90 | 4.9 | 6.1 | 8.1 | 11.7 | 10.7 | 15.0 | 14.2 | 22.5 | 22.3 | 33.9 | 33.4 | 53.4 | 4.9 | 0.0 – 2.3 | 0.2 – 2.3 | 2.3 |
| 2.54/ | 100 | 5.4 | 6.8 | 9.0 | 13.1 | 11.9 | 16.7 | 15.8 | 25.0 | 24.8 | 37.7 | 37.2 | 59.5 | 5.5 | 0.0 – 2.5 | 0.3 – 2.5 | 2.5 |
| 3.05/ | 120 | 6.6 | 8.2 | 10.8 | 15.7 | 14.3 | 20.1 | 19.0 | 30.1 | 29.9 | 45.3 | 44.9 | 71.5 | 6.6 | 0.0 – 3.0 | 0.3 – 3.0 | 3.0 |
| 3.81/ | 150 | 8.2 | 10.2 | 13.6 | 19.7 | 18.0 | 25.2 | 23.8 | 37.7 | 37.4 | 56.8 | 56.4 | 89.7 | 8.3 | 0.0 – 3.8 | 0.4 – 3.8 | 3.8 |
| 5.08/ | 200 | 11.0 | 13.7 | 18.2 | 26.3 | 24.0 | 33.7 | 31.8 | 50.3 | 50.1 | 75.9 | 75.5 | 119.9 | 11.1 | 0.0 – 5.0 | 0.5 – 5.0 | 5.0 |
| 6.35/ | 250 | 13.8 | 17.2 | 22.8 | 32.9 | 30.1 | 42.2 | 39.8 | 63.0 | 62.7 | 95.0 | 94.6 | 150.1 | – | 0.0 – 6.3 | 0.6 – 6.3 | – |
| 7.62/ | 300 | 16.6 | 20.6 | 27.3 | 39.5 | 36.2 | 50.6 | 47.8 | 75.6 | 75.3 | 114.0 | 113.7 | 180.3 | – | 0.0 – 7.5 | 0.8 – 7.5 | – |
| 8.89/ | 350 | 19.4 | 24.1 | 31.9 | 46.1 | 42.3 | 59.1 | 55.8 | 88.3 | 87.9 | 133.1 | 132.8 | 210.6 | – | 0.0 – 8.8 | 0.9 – 8.8 | – |
| 10.16/ | 400 | 22.2 | 27.5 | 36.5 | 52.8 | 48.3 | 67.6 | 63.8 | 100.9 | 100.6 | 152.2 | 151.9 | 240.8 | – | 0.0 – 10.0 | 1.0 – 10.0 | – |
| 12.70/ | 500 | 27.8 | 34.5 | 45.7 | 66.0 | 60.5 | 84.5 | 79.8 | 126.2 | 125.8 | 190.4 | 190.2 | 301.2 | – | 0.0 – 12.5 | 1.3 – 12.5 | – |
| 15.24/ | 600 | 33.4 | 41.4 | 54.9 | 79.2 | 72.6 | 101.5 | 95.9 | 151.5 | 151.1 | 228.5 | 228.4 | 361.6 | – | 0.0 – 15.0 | 1.5 – 15.0 | – |

- 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.

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 | Zoom lenses | | Fixed-focus lens |
| | | ET-DLE080/DLE085 Zoom lens | | ET-DLE150 Zoom lens | | Supplied lens | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | Supplied lens ET-DLE150/250/350/450 | ET-DLE080/DLE085 | |
| [m] | [in] | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | | | |
| 1.27/ 50 | 0.88 | 1.11 | 1.47 | 2.15 | 1.94 | 2.74 | 2.58 | 4.12 | 4.06 | 6.20 | 6.05 | 9.74 | 0.88 | -0.21 - 0.31 | -0.16 - 0.31 | 0.31 |
| 1.52/ 60 | 1.07 | 1.34 | 1.77 | 2.59 | 2.34 | 3.31 | 3.11 | 4.96 | 4.90 | 7.47 | 7.32 | 11.74 | 1.07 | -0.25 - 0.37 | -0.19 - 0.37 | 0.37 |
| 1.78/ 70 | 1.25 | 1.57 | 2.08 | 3.03 | 2.75 | 3.87 | 3.64 | 5.80 | 5.73 | 8.74 | 8.58 | 13.75 | 1.26 | -0.29 - 0.44 | -0.23 - 0.44 | 0.44 |
| 2.03/ 80 | 1.44 | 1.79 | 2.38 | 3.47 | 3.15 | 4.43 | 4.18 | 6.64 | 6.57 | 10.00 | 9.85 | 15.76 | 1.44 | -0.33 - 0.50 | -0.26 - 0.50 | 0.50 |
| 2.29/ 90 | 1.62 | 2.02 | 2.69 | 3.90 | 3.55 | 4.99 | 4.71 | 7.48 | 7.41 | 11.27 | 11.12 | 17.76 | 1.63 | -0.37 - 0.56 | -0.29 - 0.56 | 0.56 |
| 2.54/ 100 | 1.81 | 2.25 | 2.99 | 4.34 | 3.96 | 5.56 | 5.24 | 8.32 | 8.25 | 12.54 | 12.39 | 19.77 | 1.82 | -0.41 - 0.62 | -0.32 - 0.62 | 0.62 |
| 3.05/ 120 | 2.18 | 2.71 | 3.60 | 5.22 | 4.76 | 6.68 | 6.30 | 10.00 | 9.93 | 15.07 | 14.93 | 23.78 | 2.19 | -0.49 - 0.75 | -0.39 - 0.75 | 0.75 |
| 3.81/ 150 | 2.74 | 3.40 | 4.51 | 6.54 | 5.97 | 8.37 | 7.90 | 12.52 | 12.44 | 18.87 | 18.74 | 29.81 | 2.75 | -0.62 - 0.93 | -0.49 - 0.93 | 0.93 |
| 5.08/ 200 | 3.67 | 4.55 | 6.04 | 8.74 | 7.99 | 11.19 | 10.56 | 16.72 | 16.64 | 25.21 | 25.09 | 39.84 | 3.68 | -0.82 - 1.25 | -0.65 - 1.25 | 1.25 |
| 6.35/ 250 | 4.60 | 5.70 | 7.56 | 10.93 | 10.01 | 14.00 | 13.22 | 20.93 | 20.83 | 31.54 | 31.44 | 49.88 | - | -1.03 - 1.56 | -0.81 - 1.56 | - |
| 7.62/ 300 | 5.52 | 6.85 | 9.08 | 13.13 | 12.02 | 16.82 | 15.88 | 25.13 | 25.02 | 37.88 | 37.78 | 59.91 | - | -1.23 - 1.87 | -0.97 - 1.87 | - |
| 8.89/ 350 | 6.45 | 8.00 | 10.61 | 15.33 | 14.04 | 19.63 | 18.54 | 29.33 | 29.22 | 44.22 | 44.13 | 69.95 | - | -1.44 - 2.18 | -1.13 - 2.18 | - |
| 10.16/ 400 | 7.38 | 9.15 | 12.13 | 17.53 | 16.05 | 22.45 | 21.20 | 33.53 | 33.41 | 50.55 | 50.48 | 79.98 | - | -1.64 - 2.49 | -1.30 - 2.49 | - |
| 12.70/ 500 | 9.24 | 11.45 | 15.17 | 21.92 | 20.09 | 28.08 | 26.52 | 41.93 | 41.79 | 63.22 | 63.17 | 100.05 | - | -2.05 - 3.11 | -1.62 - 3.11 | - |
| 15.24/ 600 | 11.10 | 13.75 | 18.22 | 26.31 | 24.12 | 33.71 | 31.84 | 50.33 | 50.18 | 75.89 | 75.87 | 120.12 | - | -2.47 - 3.74 | -1.94 - 3.74 | - |

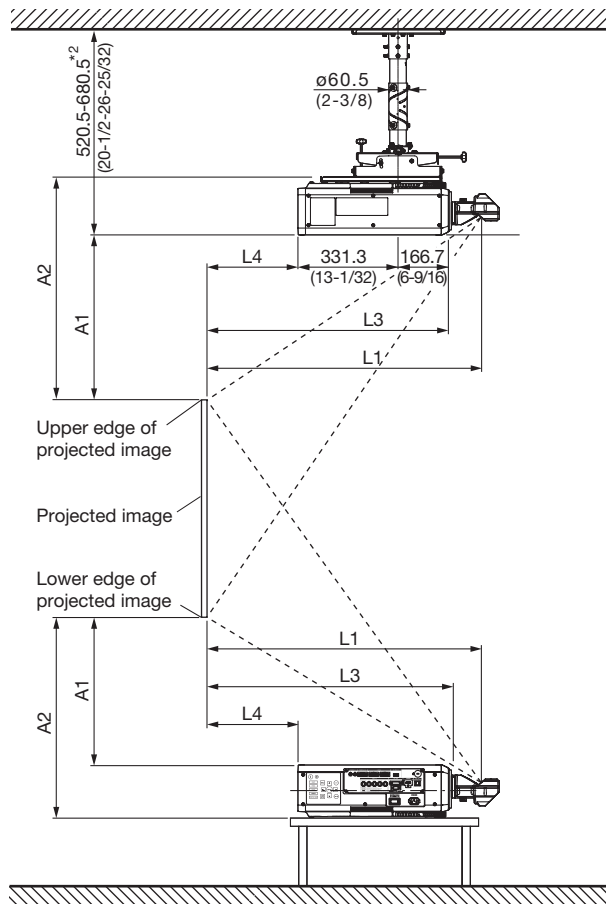
Unit: feet

| Screen size (diagonal) | | Distance to screen (L) | | | | | | | | | | | | Height from the edge of screen to center of lens (H) | | |
|------------------------|------|----------------------------|------|---------------------|-------------|---------------|-------|---------------------|-------|---------------------|-------|---------------------|-------------|------------------------------------------------------|------------------|------------------|
| | | Zoom | | | | | | | | | | | Fixed-focus | Zoom lenses | | Fixed-focus lens |
| | | ET-DLE080/DLE085 Zoom lens | | ET-DLE150 Zoom lens | | Supplied lens | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | Supplied lens ET-DLE150/250/350/450 | ET-DLE080/DLE085 | |
| [m] | [in] | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | | | |
| 1.27/ 50 | 2.9 | 3.6 | 4.8 | 7.0 | 6.4 | 9.0 | 8.5 | 13.5 | 13.3 | 20.3 | 19.8 | 31.9 | 2.9 | -0.7 - 1.0 | -0.5 - 1.0 | 1.0 |
| 1.52/ 60 | 3.5 | 4.4 | 5.8 | 8.5 | 7.7 | 10.8 | 10.2 | 16.3 | 16.1 | 24.5 | 24.0 | 38.5 | 3.5 | -0.8 - 1.2 | -0.6 - 1.2 | 1.2 |
| 1.78/ 70 | 4.1 | 5.1 | 6.8 | 9.9 | 9.0 | 12.7 | 12.0 | 19.0 | 18.8 | 28.7 | 28.2 | 45.1 | 4.1 | -0.9 - 1.4 | -0.7 - 1.4 | 1.4 |
| 2.03/ 80 | 4.7 | 5.9 | 7.8 | 11.4 | 10.3 | 14.5 | 13.7 | 21.8 | 21.6 | 32.8 | 32.3 | 51.7 | 4.7 | -1.1 - 1.6 | -0.8 - 1.6 | 1.6 |
| 2.29/ 90 | 5.3 | 6.6 | 8.8 | 12.8 | 11.7 | 16.4 | 15.4 | 24.5 | 24.3 | 37.0 | 36.5 | 58.3 | 5.3 | -1.2 - 1.8 | -1.0 - 1.8 | 1.8 |
| 2.54/ 100 | 5.9 | 7.4 | 9.8 | 14.3 | 13.0 | 18.2 | 17.2 | 27.3 | 27.1 | 41.1 | 40.7 | 64.9 | 6.0 | -1.3 - 2.0 | -1.1 - 2.0 | 2.0 |
| 3.05/ 120 | 7.2 | 8.9 | 11.8 | 17.1 | 15.6 | 21.9 | 20.7 | 32.8 | 32.6 | 49.4 | 49.0 | 78.0 | 7.2 | -1.6 - 2.5 | -1.3 - 2.5 | 2.5 |
| 3.81/ 150 | 9.0 | 11.2 | 14.8 | 21.5 | 19.6 | 27.5 | 25.9 | 41.1 | 40.8 | 61.9 | 61.5 | 97.8 | 9.0 | -2.0 - 3.1 | -1.6 - 3.1 | 3.1 |
| 5.08/ 200 | 12.0 | 14.9 | 19.8 | 28.7 | 26.2 | 36.7 | 34.6 | 54.9 | 54.6 | 82.7 | 82.3 | 130.7 | 12.1 | -2.7 - 4.1 | -2.1 - 4.1 | 4.1 |
| 6.35/ 250 | 15.1 | 18.7 | 24.8 | 35.9 | 32.8 | 45.9 | 43.4 | 68.7 | 68.3 | 103.5 | 103.1 | 163.6 | - | -3.4 - 5.1 | -2.7 - 5.1 | - |
| 7.62/ 300 | 18.1 | 22.5 | 29.8 | 43.1 | 39.4 | 55.2 | 52.1 | 82.4 | 82.1 | 124.3 | 124.0 | 196.6 | - | -4.0 - 6.1 | -3.2 - 6.1 | - |
| 8.89/ 350 | 21.2 | 26.3 | 34.8 | 50.3 | 46.1 | 64.4 | 60.8 | 96.2 | 95.9 | 145.1 | 144.8 | 229.5 | - | -4.7 - 7.1 | -3.7 - 7.1 | - |
| 10.16/ 400 | 24.2 | 30.0 | 39.8 | 57.5 | 52.7 | 73.7 | 69.5 | 110.0 | 109.6 | 165.9 | 165.6 | 262.4 | - | -5.4 - 8.2 | -4.2 - 8.2 | - |
| 12.70/ 500 | 30.3 | 37.6 | 49.8 | 71.9 | 65.9 | 92.1 | 87.0 | 137.6 | 137.1 | 207.4 | 207.3 | 328.2 | - | -6.7 - 10.2 | -5.3 - 10.2 | - |
| 15.24/ 600 | 36.4 | 45.1 | 59.8 | 86.3 | 79.1 | 110.6 | 104.5 | 165.1 | 164.6 | 249.0 | 248.9 | 394.1 | - | -8.1 - 12.3 | -6.4 - 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.

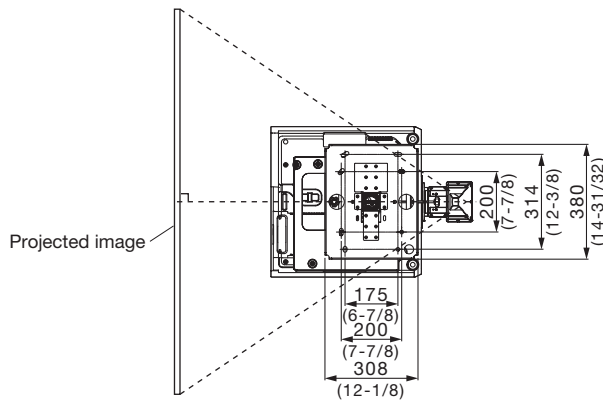
Standard setting-up position (If using the ET-DLE030)



NOTE:

Illustrations show the projector installed using optional ceiling mount bracket (6-axis adjustment mechanism) ET-PKD130H, optional bracket assembly ET-PKD130B and an optional lens.

*1 Continuous height adjustment possible



NOTE:

Illustrations show the projector installed using optional ceiling mount bracket (6-axis adjustment mechanism) ET-PKD130H, optional bracket assembly ET-PKD130B and an optional lens.

This illustration is not drawn to scale.

unit : mm (inch)

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 4:3 aspect ratio screen (If using the ET-DLE030)

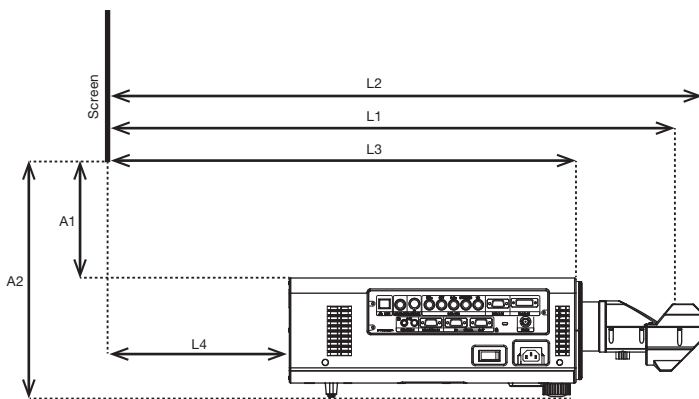
Unit : meters

| Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | | | | | |
|-----------------------------------------------------------------------|-------------------------|-------------|------------|---------------------------------------------------------------------|---------------------------------|----------------------------------|---------------------------------|-----------------------------------------------|--------------------------------------------------|
| Throw ratio | | | | 0.39:1 | (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 | 1.52 | 2.03 | 0.80 | 0.82 | 0.65 | 0.16 | 0.41 | 0.59 |
| 120 | 3.05 | 1.83 | 2.44 | 0.96 | 0.98 | 0.81 | 0.32 | 0.51 | 0.68 |
| 150 | 3.81 | 2.29 | 3.05 | 1.20 | 1.22 | 1.05 | 0.55 | 0.65 | 0.83 |
| 200 | 5.08 | 3.05 | 4.06 | 1.60 | 1.62 | 1.45 | 0.95 | 0.89 | 1.06 |
| 250 | 6.35 | 3.81 | 5.08 | 1.99 | 2.02 | 1.85 | 1.35 | 1.13 | 1.30 |
| 300 | 7.62 | 4.57 | 6.10 | 2.39 | 2.41 | 2.25 | 1.75 | 1.37 | 1.54 |
| 350 | 8.89 | 5.33 | 7.11 | 2.79 | 2.81 | 2.64 | 2.15 | 1.61 | 1.78 |

Unit : feet

| Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | | | | | |
|-----------------------------------------------------------------------|-------------------------|-------------|------------|---------------------------------------------------------------------|---------------------------------|----------------------------------|---------------------------------|-----------------------------------------------|--------------------------------------------------|
| Throw ratio | | | | 0.39:1 | (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 | 5.0 | 6.7 | 2.6 | 2.7 | 2.1 | 0.5 | 1.3 | 1.9 |
| 120 | 3.05 | 6.0 | 8.0 | 3.1 | 3.2 | 2.7 | 1.0 | 1.7 | 2.2 |
| 150 | 3.81 | 7.5 | 10.0 | 3.9 | 4.0 | 3.5 | 1.8 | 2.1 | 2.7 |
| 200 | 5.08 | 10.0 | 13.3 | 5.2 | 5.3 | 4.8 | 3.1 | 2.9 | 3.5 |
| 250 | 6.35 | 12.5 | 16.7 | 6.5 | 6.6 | 6.1 | 4.4 | 3.7 | 4.3 |
| 300 | 7.62 | 15.0 | 20.0 | 7.8 | 7.9 | 7.4 | 5.7 | 4.5 | 5.1 |
| 350 | 8.89 | 17.5 | 23.3 | 9.2 | 9.2 | 8.7 | 7.0 | 5.3 | 5.8 |

- * The value for L1 may contain an error of within ±5%.
- * When using vertical keystone correction, the images will be corrected so that they will tend to be smaller than the specified screen size.
- * 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 4:3

Projection distance calculation formula

$$L1 (m) = 0.3133 \times \text{Diagonal image size} + 0.0047$$

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

$$A1 (m) = 0.1881 \times \text{Diagonal image size} - 0.0665$$

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

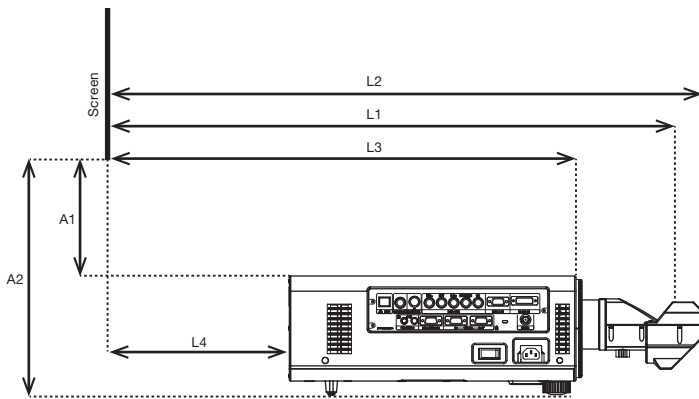
Unit : meters

| Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | | | | | |
|-----------------------------------------------------------------------|-------------------------|-------------|------------|---------------------------------------------------------------------|---------------------------------|----------------------------------|---------------------------------|-----------------------------------------------|--------------------------------------------------|
| Throw ratio | | | | 0.39:1 | (0.4:1) | | | | |
| 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 | 0.87 | 0.89 | 0.73 | 0.23 | 0.66 | 0.84 |
| 120 | 3.05 | 1.49 | 2.66 | 1.04 | 1.07 | 0.90 | 0.40 | 0.81 | 0.98 |
| 150 | 3.81 | 1.87 | 3.32 | 1.31 | 1.33 | 1.16 | 0.66 | 1.03 | 1.20 |
| 200 | 5.08 | 2.49 | 4.43 | 1.74 | 1.76 | 1.59 | 1.09 | 1.39 | 1.56 |
| 250 | 6.35 | 3.11 | 5.53 | 2.17 | 2.19 | 2.03 | 1.53 | 1.75 | 1.93 |
| 300 | 7.62 | 3.74 | 6.64 | 2.61 | 2.63 | 2.46 | 1.96 | 2.12 | 2.29 |
| 350 | 8.89 | 4.36 | 7.75 | 3.04 | 3.06 | 2.89 | 2.39 | 2.48 | 2.66 |

Unit : feet

| Ultra-short focal length lens ET-DLE030 Close-up system dimensions | | | | | | | | | |
|-----------------------------------------------------------------------|-------------------------|-------------|------------|---------------------------------------------------------------------|---------------------------------|----------------------------------|---------------------------------|-----------------------------------------------|--------------------------------------------------|
| Throw ratio | | | | 0.39:1 | (0.4:1) | | | | |
| 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 | 2.9 | 2.4 | 0.7 | 2.2 | 2.7 |
| 120 | 3.05 | 4.9 | 8.7 | 3.4 | 3.5 | 2.9 | 1.3 | 2.6 | 3.2 |
| 150 | 3.81 | 6.1 | 10.9 | 4.3 | 4.4 | 3.8 | 2.2 | 3.4 | 3.9 |
| 200 | 5.08 | 8.2 | 14.5 | 5.7 | 5.8 | 5.2 | 3.6 | 4.6 | 5.1 |
| 250 | 6.35 | 10.2 | 18.2 | 7.1 | 7.2 | 6.6 | 5.0 | 5.8 | 6.3 |
| 300 | 7.62 | 12.3 | 21.8 | 8.5 | 8.6 | 8.1 | 6.4 | 6.9 | 7.5 |
| 350 | 8.89 | 14.3 | 25.4 | 10.0 | 10.0 | 9.5 | 7.9 | 8.1 | 8.7 |

- * The value for L1 may contain an error of within ±5%.
- * When using vertical keystone correction, the images will be corrected so that they will tend to be smaller than the specified screen size.
- * 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

$$L1 (m) = 0.3413 \times \text{Diagonal image size} + 0.0047$$

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

$$A1 (m) = 0.2866 \times \text{Diagonal image size} - 0.0665$$

Calculation of the projection distance

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

Aspect ratio 4:3

| | | |
|----------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| ET-DLE085 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0170 - 0.0471$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0211 - 0.0442$ |
| ET-DLE150 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0280 - 0.0540$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0403 - 0.0498$ |
| Supplied lens | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0370 - 0.0746$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0517 - 0.0725$ |
| ET-DLE250 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0488 - 0.0800$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0771 - 0.0792$ |
| ET-DLE350 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0770 - 0.1351$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.1163 - 0.1346$ |
| ET-DLE450 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.1165 - 0.3017$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.1842 - 0.2991$ |
| ET-DLE030 | (fixed focus) | $L1 (m) = (\text{diagonal screen size in inches}) \times 0.0084 + 0.0047$ $L3 (m) = L1 - 0.146$ $L4 (m) = L1 - 0.644$ |
| ET-DLE055 | (fixed focus) | $L (m) = (\text{diagonal screen size in inches}) \times 0.0171 - 0.0476$ |

Aspect ratio 16:9

| | | |
|----------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| ET-DLE085 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0186 - 0.0471$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0230 - 0.0442$ |
| ET-DLE150 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0305 - 0.0540$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0439 - 0.0498$ |
| Supplied lens | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0403 - 0.0746$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0563 - 0.0725$ |
| ET-DLE250 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0532 - 0.0800$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0840 - 0.0792$ |
| ET-DLE350 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.0839 - 0.1351$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.1267 - 0.1346$ |
| ET-DLE450 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 0.1270 - 0.3017$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 0.2007 - 0.2991$ |
| ET-DLE030 | (fixed focus) | $L1 (m) = (\text{diagonal screen size in inches}) \times 0.0092 + 0.0047$ $L3 (m) = L1 - 0.146$ $L4 (m) = L1 - 0.644$ |
| ET-DLE055 | (fixed focus) | $L (m) = (\text{diagonal screen size in inches}) \times 0.0186 - 0.0476$ |

• 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 4:3 Possible setting-up height A1 (mm) = Projection screen size (inches) x 5.8-67.1
 Possible setting-up height A2 (mm) = A1 + 175

For screen aspect ratio of 16:9 Possible setting-up height A1 (mm) = Projection screen size (inches) x 5.7-67.1
 Possible setting-up height A2 (mm) = A1 + 175

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

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 5.0-72.1
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 5.9-72.1
Possible setting-up height A2 (mm) = A1 + 200

For screen aspect ratio of 4:3 Possible setting-up height A1 (mm) = Projection screen size (inches) x 5.7-72.1
Possible setting-up height A2 (mm) = A1 + 200

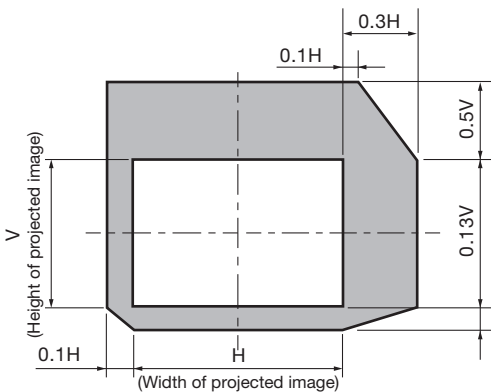
* There may be a small margin of error in the values obtained from the above formulas.

Shift range

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

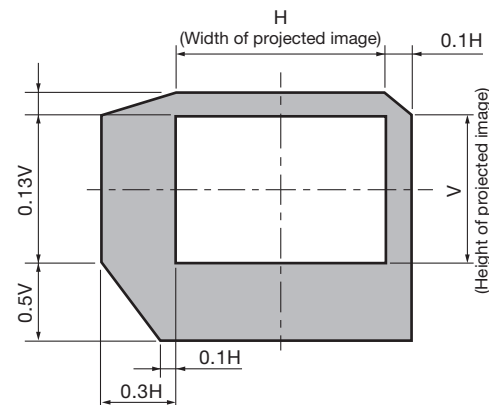
• Floor mount

(When the lens except the ET-DLE085 is mounted.)



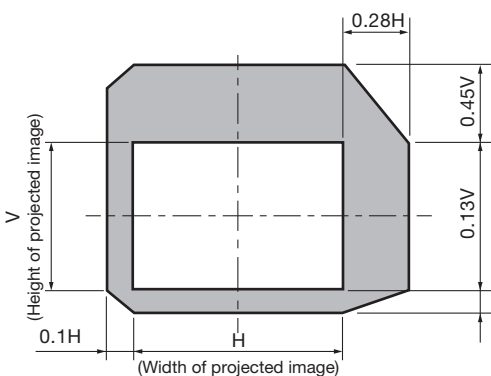
• Ceiling mount

(When the lens except the ET-DLE085 is mounted.)



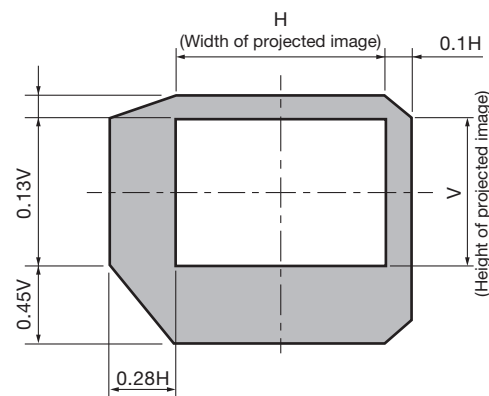
• Floor mount

(When the ET-DLE085 is mounted.)



• Ceiling mount

(When the ET-DLE085 is mounted.)



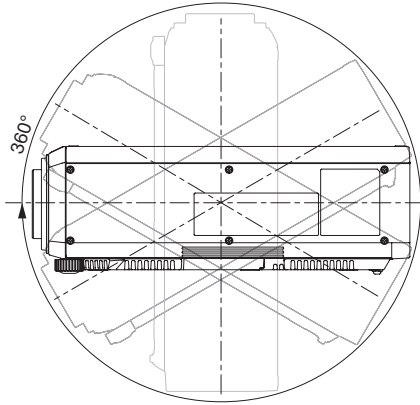
• The ET-DLE055 has a fixed short-focus lens. Therefore, the lens shift function provided in the main unit cannot be used.

Installable angle

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

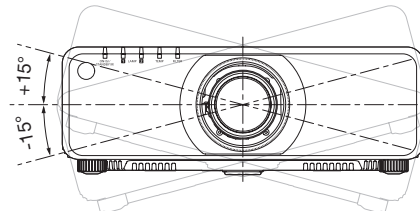
• **Vertical direction**

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



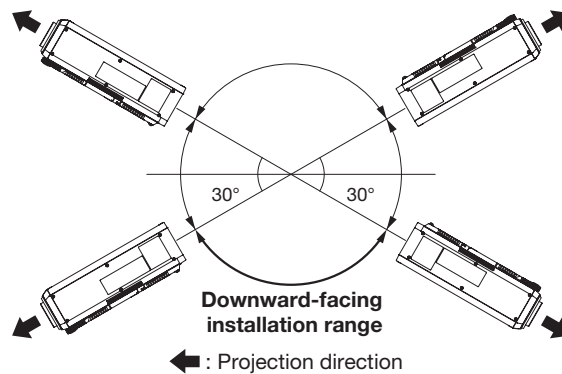
• **Horizontal direction**

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



• **Downward-facing installation**

When installing the projector in a downward facing position, be sure to attach the supplied clasp to the lamp unit. Using the projector without attach the clasp may shorten the life of the lamp.



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 | | Dot clock frequency (MHz) | Format |
|---------------------------|---------------------------|--------------------|---------|---------------------------|----------------------|
| | | H (kHz) | V (kHz) | | |
| NTSC/NTSC4.43/PAL-M/PAL60 | 720 × 480i | 15.7 | 59.9 | - | VIDEO/YC |
| PAL/PAL-N/SECAM | 720 × 576i | 15.6 | 50.0 | | |
| 525i (480i) | 720 × 480i | 15.7 | 59.9 | 13.5 | RGB1/RGB2 |
| 625i (576i) | 720 × 576i | 15.6 | 50.0 | | |
| 525i (480i) | 720(1440) × 480i*1 | 15.7 | 59.9 | 27.0 | HDMI/DVI-D |
| 625i (576i) | 720(1440) × 576i*1 | 15.6 | 50.0 | | |
| 525p (480p) | 720 × 483 | 31.5 | 59.9 | - | RGB1/RGB2/HDMI/DVI-D |
| 625p (576p) | 720 × 576 | 31.3 | 50.0 | | |
| 750 (720)/60p | 1280 × 720 | 45.0 | 60.0 | - | - |
| 750 (720)/50p | | 37.5 | 50.0 | | |
| 1125 (1080)/60i*2 | 1920 × 1080i | 33.8 | 60.0 | 74.3 | RGB1/RGB2/HDMI/DVI-D |
| 1125 (1080)/50i | | 28.1 | 50.0 | | |
| 1125 (1080)/24p | 1920 × 1080 | 27.0 | 24.0 | - | - |
| 1125 (1080)/24sF | 1920 × 1080i | 27.0 | 48.0 | | |
| 1125 (1080)/25p | 1920 × 1080 | 28.1 | 25.0 | 148.5 | - |
| 1125 (1080)/30p | | 33.8 | 30.0 | | |
| 1125 (1080)/60p | | 67.5 | 60.0 | | |
| 1125 (1080)/50p | | 56.3 | 50.0 | | |
| VESA400 | | 640 × 400 | 31.5 | | |
| VGA480 | 640 × 480 | 37.9 | 85.1 | 31.5 | - |
| | | 31.5 | 59.9 | 25.2 | - |
| | | 35.0 | 66.7 | 30.2 | - |
| | | 37.9 | 72.8 | 31.5 | - |
| | | 37.5 | 75.0 | 31.5 | - |
| SVGA | 800 × 600 | 43.3 | 85.0 | 36.0 | - |
| | | 35.2 | 56.3 | 36.0 | - |
| | | 37.9 | 60.3 | 40.0 | - |
| | | 48.1 | 72.2 | 50.0 | - |
| | | 46.9 | 75.0 | 49.5 | - |
| MAC16 | 832 × 624 | 53.7 | 85.1 | 56.3 | - |
| | | 49.7 | 74.6 | 57.3 | - |
| | | 39.6 | 50.0 | 51.9 | - |
| XGA | 1024 × 768 | 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 | - |
| MXGA | 1152 × 864 | 81.4 | 100.0 | 113.3 | - |
| | | 98.8 | 120.0 | 139.1 | - |
| | | 53.7 | 60.0 | 81.6 | - |
| MAC21 | 1152 × 870 | 64.0 | 70.0 | 94.2 | - |
| | | 67.5 | 74.9 | 108.0 | - |
| 1280 × 720 | 1280 × 720 | 77.1 | 85.0 | 119.7 | - |
| | | 37.1 | 49.8 | 60.5 | - |
| | | 44.8 | 59.9 | 74.5 | - |
| 1280 × 768 | 1280 × 768 | 76.3 | 100.0 | 131.8 | - |
| | | 92.6 | 120.0 | 161.6 | - |
| | | 39.6 | 49.9 | 65.3 | - |
| 1280 × 768 | 1280 × 768*3 | 47.8 | 59.9 | 79.5 | - |
| | | 47.4 | 60.0 | 68.3 | - |
| | | 60.3 | 74.9 | 102.3 | - |
| | 1280 × 768 | 68.6 | 84.8 | 117.5 | - |

| Display mode | Display resolution (dots) | Scanning frequency | | Dot clock frequency (MHz) | Format |
|--------------|---------------------------|---------------------------|---------|---------------------------|--------------------------|
| | | H (kHz) | V (kHz) | | |
| 1280 × 800 | 1280 × 800 | 41.3 | 50.0 | 68.0 | |
| | | 49.7 | 59.8 | 83.5 | |
| | 1280 × 800* ³ | 49.3 | 59.9 | 71.0 | |
| | | 62.8 | 74.9 | 106.5 | |
| MSXGA | 1280 × 960 | 71.6 | 84.9 | 122.5 | |
| | | 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 | |
| 1366×768 | 1366 × 768 | 91.1 | 85.0 | 157.5 | |
| | | 47.7 | 59.8 | 85.5 | |
| | | 39.6 | 49.9 | 69.0 | |
| SXGA+ | 1400 × 1050 | 54.1 | 50.0 | 99.9 | RGB1/RGB2/ HDMI/DVI-D |
| | | 64.0 | | 108.0 | |
| | | 65.2 | 60.0 | 122.6 | |
| | | 65.3 | | 121.8 | |
| | | 78.8 | 72.0 | 149.3 | |
| | | 82.2 | 75.0 | 155.9 | |
| WXGA+ | 1440 × 900 | 55.9 | 59.9 | 106.5 | |
| | | 46.3 | | 86.8 | |
| 1600×900 | 1600 × 900 | 46.4 | 49.9 | 96.5 | |
| | | 55.9 | 60.0 | 119.0 | |
| UXGA | 1600 × 1200 | 61.8 | 49.9 | 131.5 | |
| | | 75.0 | 60.0 | 162.0 | |
| WSXGA+ | 1680 × 1050 | 65.3 | 60.0 | 146.3 | |
| | | 54.1 | 50.0 | 119.5 | |
| | | 1920 × 1080 | 55.6 | 49.9 | 141.5 |
| 1920×1080 | 1920 × 1080* ³ | 66.6 | 59.9 | 138.5 | |
| | | 67.2 | 60.0 | 173.0 | RGB1/RGB2 |
| | | 61.8 | 49.9 | 158.3 | RGB1/RGB2/ HDMI/DVI-D |
| WUXGA | 1920 × 1200* ³ | 74.0 | 60.0 | 154.0 | HDMI/DVI-D |
| | | 1920 × 1200* ⁴ | 74.6 | 59.9 | 193.3 |

*1 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)
 *2 When 1125(1035)/60i signal input, it displays as 1125(1080)/60i signals.
 *3 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).
 *4 Image resolution is reduced by the image processing circuit before projection.

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