
S P E C F I L E

Product Number : PT-**DZ870K/DZ870W**
PT-**DZ870LK/DZ870LW**

Product Name : DLP™ Projectors

Specifications**Main unit**

Power supply	120–240 V AC, 10–5.2 A, 50/60 Hz	
Power consumption	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 Display method Pixels	17.0 mm (0.67 in) diagonal (16:10 aspect ratio) DLP™ chip × 1, DLP™ system 2,304,000 (1,920 × 1,200) × 1, total of 2,304,000 pixels
Lens	PT-DZ870K/DZ870W PT-DZ870LK/DZ870LW	Powered zoom/focus lenses (1.7–2.4:1), F 1.7–1.9, f 25.6–35.7 mm 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)	
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	1,920 × 1,200 pixels	
Scanning frequency	SDI	3G-SDI signal (RGB 4:4:4 12-bit/10-bit): SMPTE ST 424 compliant: 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p 3G-SDI signal (YPbPr 4:2:2 10-bit): SMPTE ST 424 compliant: 1125(1080)/60p, 1125(1080)/50p HD-SDI signal (YPbPr 4:2:2 10-bit): SMPTE ST 292 compliant: 750(720)/60p, 750(720)/50p, 1125(1035)/60i, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p SD-SDI signal (YCbCr 4:2:2 10-bit): SMPTE ST 259 compliant: 525i(480i), 625i(576i) fH: 15–100 kHz, fv: 24–120 Hz, dot clock: 25–162 MHz fH: 15–100 kHz, fv: 24–120 Hz, dot clock: 162 MHz or lower 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/S-Video
Optical axis shift	fH: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] fH: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM] Vertical: +50% (powered), horizontal: ±10% (powered) 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 $\pm 40^\circ$ (vertical $\pm 30^\circ$ with the ET-DLE055/DLE085/DLE105, vertical $+5^\circ$ with the ET-DLE030) When using only the KEYSTONE correction of the Geometric Adjustment function: Vertical $\pm 40^\circ$, horizontal $\pm 15^\circ$ (vertical $\pm 30^\circ$ and horizontal $\pm 15^\circ$ with the ET-DLE055/DLE085/DLE105) When using the optional upgrade kit ET-UK20*3: Vertical $\pm 45^\circ$ and horizontal $\pm 40^\circ$ (vertical $\pm 22^\circ$ and horizontal $\pm 15^\circ$ with the ET-DLE055/DLE085/DLE105, vertical $+5^\circ$ with the ET-DLE030) When using both the KEYSTONE and CURVED corrections of the Geometric Adjustment function: Vertical $\pm 20^\circ$, horizontal $\pm 15^\circ$ (vertical $\pm 8^\circ$ and horizontal $\pm 8^\circ$ with the ET-DLE055/DLE085/DLE105)
Installation	Ceiling/floor, front/rear
Terminals	<p>SDI IN BNC × 1, 3G-SDI signal: SMPTE ST 424 compliant HD-SDI signal: SMPTE ST 292 compliant SD-SDI signal: SMPTE ST 259 compliant</p> <p>HDMI IN HDMI 19-pin × 1, Deep Color, compatible with HDCP, 525i(480i)*4, 625i(576i)*4, 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 VGA (640 × 480)–WUXGA*5 (1,920 × 1,200), dot clock: 25 MHz–162 MHz</p> <p>NOTE: Compatible with non-interlaced signals only.</p> <p>DVI-D IN DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible, for single link only 525i(480i)*4, 625i(576i)*4, 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 VGA (640 × 480)–WUXGA*5 (1,920 × 1,200), dot clock: 25 MHz–162 MHz</p> <p>NOTE: Compatible with non-interlaced signals only.</p> <p>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) S-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</p> <p>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: 1.0 Vp-p (including sync signal), Pb/Pr (Cb/Cr): 0.7 Vp-p, 75 ohms</p> <p>3D SYNC 1 IN/OUT BNC × 1, 1.0 Vp-p, 75 ohms Input: TTL, high impedance. Output: TTL, max. 10 mA</p> <p>3D SYNC 2 OUT BNC × 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA</p> <p>VIDEO IN BNC × 1, 1.0 Vp-p, 75 ohms</p> <p>SERIAL IN D-sub 9-pin (female) × 1 for external control (RS-232C compliant)</p> <p>SERIAL OUT D-sub 9-pin (male) × 1 for link control (RS-232C compliant)</p> <p>REMOTE 1 IN M3 jack × 1 for wired remote control</p> <p>REMOTE 1 OUT M3 jack × 1 for link control</p> <p>REMOTE 2 IN D-sub 9-pin (female) × 1 for external control (parallel)</p>
As of January 2017	3/25
SFD13M004-3	Panasonic

LAN/DIGITAL LINK

RJ-45 × 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PJLink™ (class 1), Deep Color, compatible with HDCP, 525i(480i)^{*4}, 625i(576i)^{*4}, 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
VGA (640 × 480)–WUXGA^{*4} (1,920 × 1,200), dot clock: 25 MHz–162 MHz

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-DZ870K/DZ870W

498 × 200^{*6} × 556 mm

(19-19/32 × 7-7/8^{*6} × 21-7/8 inches) (with supplied lens)

PT-DZ870LK/DZ870LW

498 × 200^{*6} × 513 mm

(19-19/32 × 7-7/8^{*6} × 20-3/16 inches) (without lens)

Weight^{*7}

PT-DZ870K/DZ870W

Approx. 18.3 kg (40.3 lbs) (with supplied lens)

PT-DZ870LK/DZ870LW

Approx. 17.6 kg (38.8 lbs) (without lens)

Operation noise^{*2}

40 dB (dual lamp operation, LAMP MODE: NORMAL),

35 dB (dual lamp operation, LAMP MODE: ECO)

Operating temperature

0–45 °C (32–113 °F)^{*8}

Operating humidity

10%–80% (no condensation)

Remote control unit

Power supply

3 V DC (AAA type battery × 2)

Operation range^{*9}

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-DZ870EK/DZ870EW/DZ870ELK/DZ870ELW)

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 (0.8–1.0:1)

ET-DLE085

Zoom lens (1.0–1.3:1)

ET-DLE105

Zoom lens (1.3–1.9:1)

ET-DLE150

Zoom lens (1.7–2.4:1)

ET-DLE170 (same as supplied lens)

Zoom lens (2.3–3.6:1)

ET-DLE250

Zoom lens (3.6–5.4:1)

ET-DLE350

Zoom lens (5.4–8.6:1)

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)

High-ceiling mount bracket (6-axis adjustment mechanism)

ET-PKD120S (for low ceilings)

Attachment for ceiling mount bracket

ET-PKD130H/PKD120B

Upgrade kit

ET-UK20

Replacement lamp unit for portrait mode

ET-LAD120P

Replacement lamp unit

ET-LAD120PW (Twin Pack)

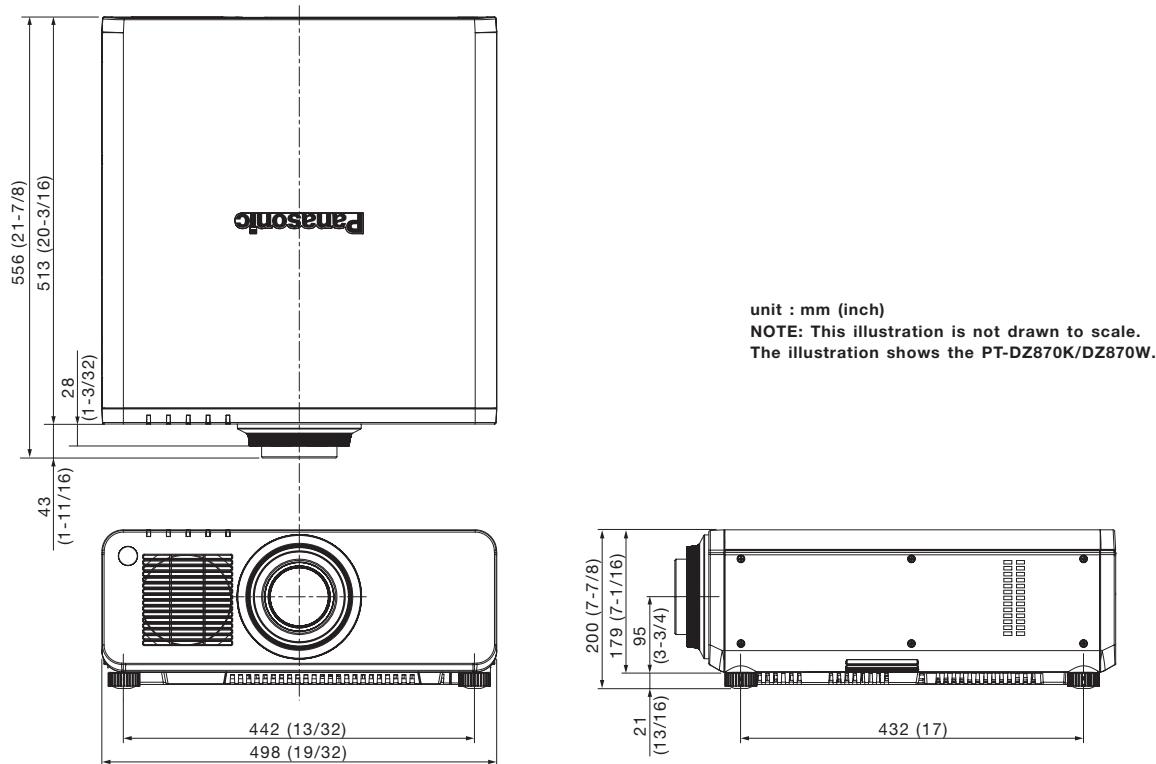
ET-LAD120

ET-LAD120W (Twin Pack)

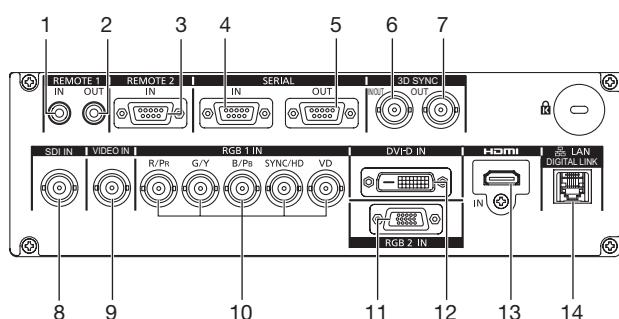
Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice.

- *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 Up to a total of $\pm 55^\circ$ during simultaneous horizontal and vertical correction.
- *4 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)
- *5 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).
- *6 With legs at shortest position.
- *7 Average value. May differ depending on models.
- *8 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.
- *9 Operation range differs depending on environments.

Dimensions

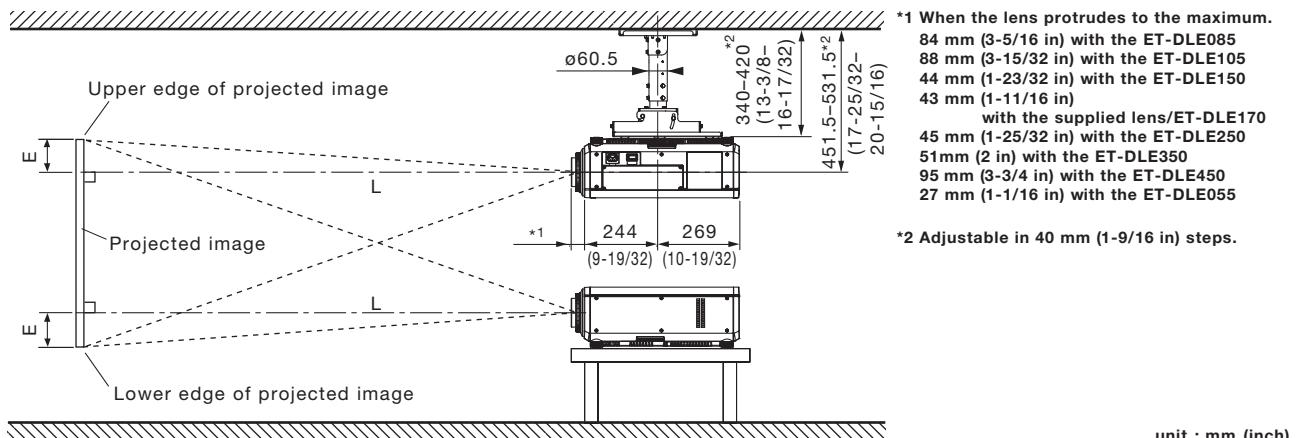


Terminals

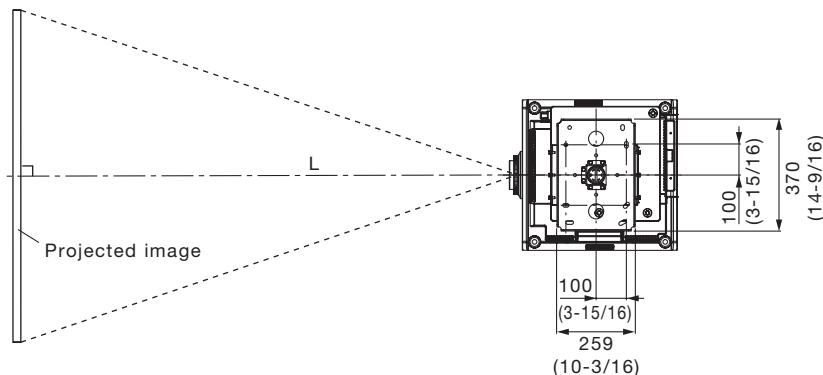


- | | |
|----|----------------------------|
| 1 | Remote 1 input |
| 2 | Remote 1 output |
| 3 | Remote 2 input |
| 4 | Serial input |
| 5 | Serial output |
| 6 | 3D sync 1 input/output |
| 7 | 3D sync 2 output |
| 8 | SDI input |
| 9 | Video input |
| 10 | RGB 1 input |
| 11 | RGB 2 Input |
| 12 | DVI-D input |
| 13 | HDMI input |
| 14 | LAN/DIGITAL LINK connector |

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



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)

Distance to screen (L)														Unit: meters			
Screen size (diagonal) [m] [in]	Zoom													Height from the edge of screen to center of lens (H)	Fixed-focus lens		
	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				
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
1.27 / 50	0.82	1.04	1.03	1.41	1.38	2.01	1.82	2.57	2.42	3.87	3.80	5.81	5.66	9.12	0.83	0.00 – 0.34 0.34	
1.52 / 60	1.00	1.25	1.25	1.70	1.66	2.43	2.20	3.10	2.92	4.65	4.59	7.00	6.85	11.01	1.00	0.00 – 0.40 0.40	
1.78 / 70	1.17	1.47	1.47	1.99	1.95	2.84	2.58	3.63	3.42	5.44	5.38	8.19	8.04	12.89	1.18	0.00 – 0.47 0.47	
2.03 / 80	1.35	1.68	1.68	2.28	2.23	3.25	2.95	4.16	3.92	6.23	6.16	9.38	9.23	14.78	1.35	0.00 – 0.54 0.54	
2.29 / 90	1.52	1.90	1.90	2.57	2.52	3.66	3.33	4.69	4.42	7.02	6.95	10.57	10.43	16.66	1.53	0.00 – 0.61 0.61	
2.54 / 100	1.70	2.11	2.12	2.86	2.81	4.08	3.71	5.21	4.92	7.81	7.74	11.76	11.62	18.55	1.70	0.00 – 0.67 0.67	
3.05 / 120	2.05	2.55	2.55	3.44	3.38	4.90	4.47	6.27	5.91	9.39	9.31	14.14	14.00	22.31	2.05	0.00 – 0.81 0.81	
3.81 / 150	2.57	3.19	3.20	4.32	4.24	6.14	5.60	7.86	7.41	11.75	11.68	17.71	17.58	27.97	2.58	0.00 – 1.01 1.01	
5.08 / 200	3.44	4.27	4.29	5.77	5.67	8.20	7.50	10.50	9.91	15.70	15.61	23.66	23.54	37.39	3.45	0.00 – 1.35 1.35	
6.35 / 250	4.31	5.35	5.37	7.23	7.10	10.26	9.39	13.14	12.41	19.64	19.55	29.61	29.50	46.81	–	0.00 – 1.68 –	
7.62 / 300	5.18	6.43	6.46	8.68	8.53	12.33	11.28	15.79	14.91	23.59	23.49	35.56	35.46	56.24	–	0.00 – 2.02 –	
10.16 / 400	6.93	8.59	8.63	11.59	11.39	16.45	15.07	21.07	19.90	31.48	31.36	47.46	47.38	75.08	–	0.00 – 2.69 –	
12.70 / 500	8.67	10.75	10.80	14.50	14.25	20.58	18.86	26.36	24.90	39.37	39.23	59.36	59.30	93.93	–	0.00 – 3.37 –	
15.24 / 600	10.42	12.91	12.97	17.41	17.11	24.70	22.64	31.65	29.89	47.45	47.11	71.25	71.22	112.77	–	0.00 – 4.04 –	

Distance to screen (L)														Unit: feet			
Screen size (diagonal) [m] [in]	Zoom													Height from the edge of screen to center of lens (H)	Fixed-focus lens		
	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				
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
1.27 / 50	2.7	3.4	3.4	4.6	4.5	6.6	6.0	8.4	7.9	12.7	12.5	19.1	18.6	29.9	2.7	0.0 – 1.1 1.1	
1.52 / 60	3.3	4.1	4.1	5.6	5.5	8.0	7.2	10.2	9.6	15.3	15.1	23.0	22.5	36.1	3.3	0.0 – 1.3 1.3	
1.78 / 70	3.9	4.8	4.8	6.5	6.4	9.3	8.5	11.9	11.2	17.9	17.6	26.9	26.4	42.3	3.9	0.0 – 1.6 1.6	
2.03 / 80	4.4	5.5	5.5	7.5	7.3	10.7	9.7	13.6	12.8	20.4	20.2	30.8	30.3	48.5	4.4	0.0 – 1.8 1.8	
2.29 / 90	5.0	6.2	6.2	8.4	8.3	12.0	10.9	15.4	14.5	23.0	22.8	34.7	34.2	54.7	5.0	0.0 – 2.0 2.0	
2.54 / 100	5.6	6.9	7.0	9.4	9.2	13.4	12.2	17.1	16.1	25.6	25.4	38.6	38.1	60.8	5.6	0.0 – 2.2 2.2	
3.05 / 120	6.7	8.4	8.4	11.3	11.1	16.1	14.7	20.6	19.4	30.8	30.6	46.4	45.9	73.2	6.7	0.0 – 2.7 2.7	
3.81 / 150	8.4	10.5	10.5	14.2	13.9	20.1	18.4	25.8	24.3	38.6	38.3	58.1	57.7	91.8	8.5	0.0 – 3.3 3.3	
5.08 / 200	11.3	14.0	14.1	18.9	18.6	26.9	24.6	34.5	32.5	51.5	51.2	77.6	77.2	122.7	11.3	0.0 – 4.4 4.4	
6.35 / 250	14.1	17.6	17.6	23.7	23.3	33.7	30.8	43.1	40.7	64.4	64.1	97.1	96.8	153.6	–	0.0 – 5.5 –	
7.62 / 300	17.0	21.1	21.2	28.5	28.0	40.4	37.0	51.8	48.9	77.4	77.1	116.7	116.3	184.5	–	0.0 – 6.6 –	
10.16 / 400	22.7	28.2	28.3	38.0	37.4	54.0	49.4	69.1	65.3	103.3	102.9	155.7	155.4	246.3	–	0.0 – 8.8 –	
12.70 / 500	28.5	35.3	35.4	47.6	46.7	67.5	61.9	86.5	81.7	129.2	128.7	194.7	194.6	308.2	–	0.0 – 11.0 –	
15.24 / 600	34.2	42.3	42.6	57.1	56.1	81.0	74.3	103.8	98.1	155.7	154.6	233.8	233.7	370.0	–	0.0 – 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.

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

Distance to screen (L)														Height from the edge of screen to center of lens (H)			Unit: meters	
Screen size (diagonal)		Zoom												Fixed-focus	Zoom lenses	Fixed-focus lens		
[m]	[in]	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									
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.27 / 50		0.85	1.07	1.06	1.45	1.42	2.07	1.87	2.64	2.49	3.97	3.91	5.98	5.82	9.39	0.85	-0.06 -0.31	0.31
1.52 / 60		1.03	1.29	1.29	1.75	1.71	2.49	2.26	3.19	3.00	4.79	4.72	7.20	7.05	11.32	1.03	-0.08 -0.37	0.37
1.78 / 70		1.21	1.51	1.51	2.05	2.00	2.92	2.65	3.73	3.51	5.60	5.53	8.43	8.27	13.26	1.21	-0.09 -0.44	0.44
2.03 / 80		1.39	1.73	1.73	2.35	2.30	3.34	3.04	4.27	4.03	6.41	6.34	9.65	9.50	15.20	1.39	-0.10 -0.50	0.50
2.29 / 90		1.57	1.95	1.96	2.64	2.59	3.77	3.43	4.82	4.54	7.22	7.15	10.87	10.72	17.13	1.57	-0.11 -0.56	0.56
2.54 / 100		1.75	2.17	2.18	2.94	2.89	4.19	3.82	5.36	5.05	8.03	7.96	12.09	11.95	19.07	1.75	-0.13 -0.62	0.62
3.05 / 120		2.10	2.62	2.63	3.54	3.47	5.04	4.60	6.45	6.08	9.65	9.58	14.54	14.40	22.94	2.11	-0.15 -0.75	0.75
3.81 / 150		2.64	3.28	3.29	4.44	4.36	6.31	5.76	8.08	7.62	12.08	12.00	18.21	18.08	28.75	2.65	-0.19 -0.93	0.93
5.08 / 200		3.54	4.39	4.41	5.93	5.82	8.43	7.71	10.80	10.19	16.14	16.05	24.32	24.20	38.44	3.55	-0.25 -1.25	1.25
6.35 / 250		4.43	5.50	5.52	7.43	7.29	10.55	9.65	13.51	12.75	20.19	20.10	30.44	30.33	48.12	-	-0.31 -1.56	-
7.62 / 300		5.33	6.61	6.64	8.93	8.76	12.67	11.60	16.23	15.32	24.25	24.14	36.55	36.45	57.81	-	-0.37 -1.87	-
10.16 / 400		7.12	8.83	8.87	11.92	11.70	16.91	15.49	21.66	20.46	32.35	32.24	48.78	48.71	77.18	-	-0.50 -2.49	-
12.70 / 500		8.91	11.05	11.10	14.91	14.64	21.15	19.38	27.10	25.59	40.46	40.33	61.01	60.96	96.55	-	-0.62 -3.11	-
15.24 / 600		10.71	13.27	13.33	17.90	17.58	25.39	23.27	32.53	30.72	48.57	48.42	73.24	73.21	115.91	-	-0.75 -3.74	-

Distance to screen (L)														Height from the edge of screen to center of lens (H)			Unit: feet	
Screen size (diagonal)		Zoom												Fixed-focus	Zoom lenses	Fixed-focus lens		
[m]	[in]	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									
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.27 / 50		2.8	3.5	3.5	4.8	4.6	6.8	6.1	8.7	8.2	13.0	12.8	19.6	19.1	30.8	2.8	-0.2 -1.0	1.0
1.52 / 60		3.4	4.2	4.2	5.7	5.6	8.2	7.4	10.5	9.8	15.7	15.5	23.6	23.1	37.1	3.4	-0.2 -1.2	1.2
1.78 / 70		4.0	5.0	5.0	6.7	6.6	9.6	8.7	12.2	11.5	18.4	18.1	27.6	27.1	43.5	4.0	-0.3 -1.4	1.4
2.03 / 80		4.6	5.7	5.7	7.7	7.5	11.0	10.0	14.0	13.2	21.0	20.8	31.7	31.2	49.9	4.6	-0.3 -1.6	1.6
2.29 / 90		5.1	6.4	6.4	8.7	8.5	12.4	11.2	15.8	14.9	23.7	23.5	35.7	35.2	56.2	5.2	-0.4 -1.8	1.8
2.54 / 100		5.7	7.1	7.2	9.6	9.5	13.8	12.5	17.6	16.6	26.3	26.1	39.7	39.2	62.6	5.7	-0.4 -2.0	2.0
3.05 / 120		6.9	8.6	8.6	11.6	11.4	16.5	15.1	21.2	20.0	31.7	31.4	47.7	47.2	75.3	6.9	-0.5 -2.5	2.5
3.81 / 150		8.7	10.8	10.8	14.6	14.3	20.7	18.9	26.5	25.0	39.6	39.4	59.7	59.3	94.3	8.7	-0.6 -3.1	3.1
5.08 / 200		11.6	14.4	14.5	19.5	19.1	27.7	25.3	35.4	33.4	52.9	52.7	79.8	79.4	126.1	11.7	-0.8 -4.1	4.1
6.35 / 250		14.5	18.1	18.1	24.4	23.9	34.6	31.7	44.3	41.8	66.2	65.9	99.9	99.5	157.9	-	-1.0 -5.1	-
7.62 / 300		17.5	21.7	21.8	29.3	28.8	41.6	38.1	53.2	50.3	79.5	79.2	119.9	119.6	189.7	-	-1.2 -6.1	-
10.16 / 400		23.4	29.0	29.1	39.1	38.4	55.5	50.8	71.1	67.1	106.1	105.8	160.0	159.8	253.2	-	-1.6 -8.2	-
12.70 / 500		29.2	36.3	36.4	48.9	48.0	69.4	63.6	88.9	84.0	132.7	132.3	200.2	200.0	316.8	-	-2.0 -10.2	-
15.24 / 600		35.1	43.5	43.7	58.7	57.7	83.3	76.4	106.7	100.8	159.4	158.9	240.3	240.2	380.3	-	-2.5 -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.

Projection distance for 4:3 aspect ratio screen (If using other than the ET-DLE030)

Distance to screen (L)														Height from the edge of screen to center of lens (H)			Unit: meters	
Screen size (diagonal)		Zoom												Fixed-focus	Zoom lenses		Fixed-focus lens	
		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						
[m]	[in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.27 / 50		0.94	1.18	1.18	1.60	1.56	2.29	2.07	2.92	2.75	4.39	4.32	6.60	6.45	10.37	0.94	0.00 – 0.38	0.38
1.52 / 60		1.14	1.42	1.42	1.93	1.89	2.75	2.50	3.52	3.31	5.28	5.21	7.95	7.80	12.50	1.14	0.00 – 0.46	0.46
1.78 / 70		1.33	1.67	1.67	2.26	2.21	3.22	2.93	4.12	3.88	6.17	6.10	9.29	9.14	14.63	1.34	0.00 – 0.53	0.53
2.03 / 80		1.53	1.91	1.91	2.59	2.54	3.69	3.35	4.72	4.44	7.07	7.00	10.64	10.49	16.77	1.54	0.00 – 0.61	0.61
2.29 / 90		1.73	2.16	2.16	2.92	2.86	4.15	3.78	5.31	5.01	7.96	7.89	11.99	11.84	18.90	1.74	0.00 – 0.69	0.69
2.54 / 100		1.93	2.40	2.41	3.25	3.18	4.62	4.21	5.91	5.57	8.85	8.78	13.34	13.19	21.03	1.93	0.00 – 0.76	0.76
3.05 / 120		2.32	2.89	2.90	3.91	3.83	5.55	5.07	7.11	6.71	10.64	10.56	16.03	15.89	25.30	2.33	0.00 – 0.91	0.91
3.81 / 150		2.91	3.62	3.63	4.89	4.80	6.96	6.35	8.91	8.40	13.32	13.24	20.07	19.94	31.70	2.93	0.00 – 1.14	1.14
5.08 / 200		3.90	4.84	4.86	6.54	6.42	9.29	8.50	11.90	11.23	17.78	17.69	26.80	26.69	42.37	3.92	0.00 – 1.52	1.52
6.35 / 250		4.89	6.07	6.09	8.19	8.04	11.63	10.64	14.89	14.06	22.25	22.15	33.54	33.44	53.04	–	0.00 – 1.91	–
7.62 / 300		5.88	7.29	7.32	9.84	9.66	13.96	12.78	17.88	16.88	26.71	26.61	40.27	40.18	63.70	–	0.00 – 2.29	–
10.16 / 400		7.85	9.73	9.78	13.13	12.90	18.63	17.07	23.87	22.54	35.65	35.52	53.74	53.68	85.04	–	0.00 – 3.05	–
12.70 / 500		9.82	12.17	12.23	16.42	16.13	23.30	21.36	29.85	28.19	44.58	44.43	67.21	67.17	106.37	–	0.00 – 3.81	–
15.24 / 600		11.80	14.62	14.69	19.72	19.37	27.97	25.64	35.84	33.85	53.51	53.35	80.68	80.67	127.70	–	0.00 – 4.57	–

Distance to screen (L)														Height from the edge of screen to center of lens (H)			Unit: feet	
Screen size (diagonal)		Zoom												Fixed-focus	Zoom lenses		Fixed-focus lens	
		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						
[m]	[in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.27 / 50		3.1	3.9	3.9	5.2	5.1	7.5	6.8	9.6	9.0	14.4	14.2	21.7	21.1	34.0	3.1	0.0 – 1.3	1.3
1.52 / 60		3.7	4.7	4.7	6.3	6.2	9.0	8.2	11.5	10.9	17.3	17.1	26.1	25.6	41.0	3.7	0.0 – 1.5	1.5
1.78 / 70		4.4	5.5	5.5	7.4	7.3	10.6	9.6	13.5	12.7	20.3	20.0	30.5	30.0	48.0	4.4	0.0 – 1.8	1.8
2.03 / 80		5.0	6.3	6.3	8.5	8.3	12.1	11.0	15.5	14.6	23.2	23.0	34.9	34.4	55.0	5.0	0.0 – 2.0	2.0
2.29 / 90		5.7	7.1	7.1	9.6	9.4	13.6	12.4	17.4	16.4	26.1	25.9	39.3	38.9	62.0	5.7	0.0 – 2.3	2.3
2.54 / 100		6.3	7.9	7.9	10.7	10.4	15.2	13.8	19.4	18.3	29.0	28.8	43.8	43.3	69.0	6.3	0.0 – 2.5	2.5
3.05 / 120		7.6	9.5	9.5	12.8	12.6	18.2	16.6	23.3	22.0	34.9	34.7	52.6	52.1	83.0	7.6	0.0 – 3.0	3.0
3.81 / 150		9.6	11.9	11.9	16.0	15.8	22.8	20.8	29.2	27.6	43.7	43.4	65.8	65.4	104.0	9.6	0.0 – 3.8	3.8
5.08 / 200		12.8	15.9	15.9	21.5	21.1	30.5	27.9	39.0	36.8	58.3	58.0	87.9	87.6	139.0	12.8	0.0 – 5.0	5.0
6.35 / 250		16.0	19.9	20.0	26.9	26.4	38.1	34.9	48.9	46.1	73.0	72.7	110.0	109.7	174.0	–	0.0 – 6.3	–
7.62 / 300		19.3	23.9	24.0	32.3	31.7	45.8	41.9	58.7	55.4	87.6	87.3	132.1	131.8	209.0	–	0.0 – 7.5	–
10.16 / 400		25.8	31.9	32.1	43.1	42.3	61.1	56.0	78.3	73.9	116.9	116.5	176.3	176.1	279.0	–	0.0 – 10.0	–
12.70 / 500		32.2	39.9	40.1	53.9	52.9	76.5	70.1	97.9	92.5	146.2	145.8	220.5	220.4	349.0	–	0.0 – 12.5	–
15.24 / 600		38.7	48.0	48.2	64.7	63.6	91.8	84.1	117.6	111.0	175.5	175.0	264.7	264.7	419.0	–	0.0 – 15.0	–

- The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.

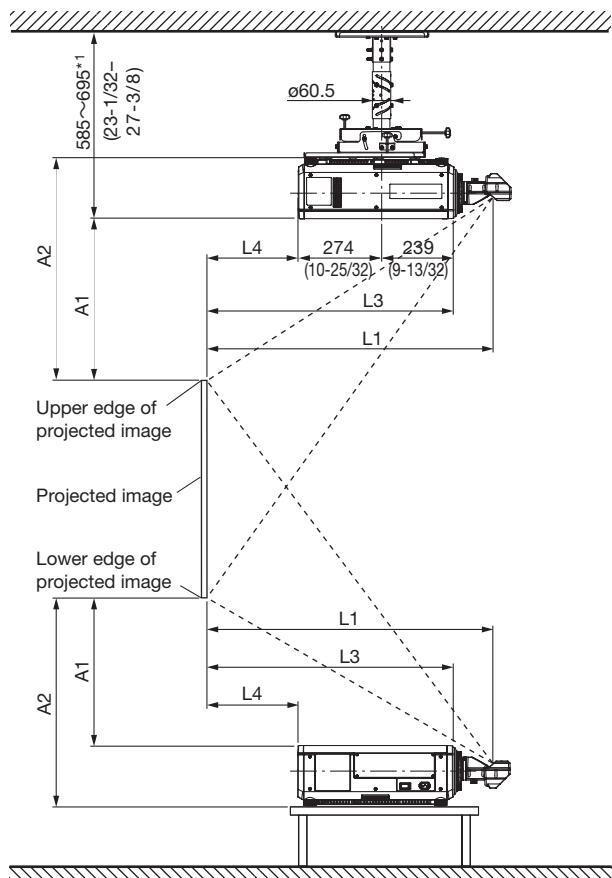
- The zoom lens characteristics may cause slight image distortion.

- 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.

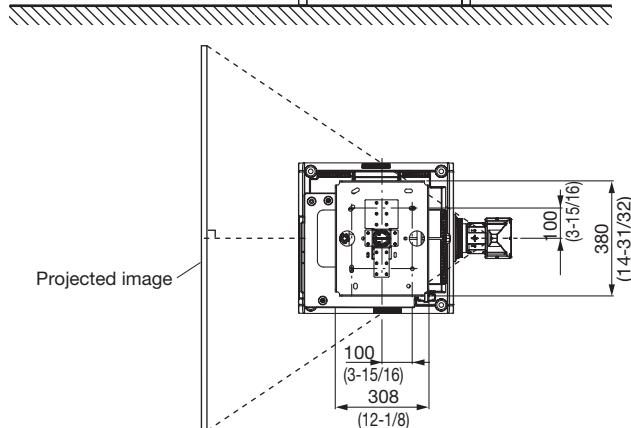
Standard setting-up position (If using the ET-DLE030)



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.

**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 the ET-DLE030)

Unit : meters

Ultra-short focal length lens ET-DLE030 Close-up system dimensions									
Throw ratio				0.38:1	(0.39:1)	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)
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)				
100	2.54	1.35	2.15	0.82	0.84	0.65	0.14	0.43	0.63
120	3.05	1.62	2.59	0.98	1.00	0.82	0.30	0.53	0.73
150	3.81	2.02	3.23	1.23	1.25	1.06	0.55	0.68	0.88
200	5.08	2.69	4.31	1.63	1.66	1.47	0.95	0.93	1.13
250	6.35	3.37	5.39	2.04	2.06	1.87	1.36	1.18	1.38
300	7.62	4.04	6.46	2.45	2.47	2.28	1.77	1.43	1.63
350	8.89	4.71	7.54	2.85	2.88	2.69	2.18	1.69	1.89

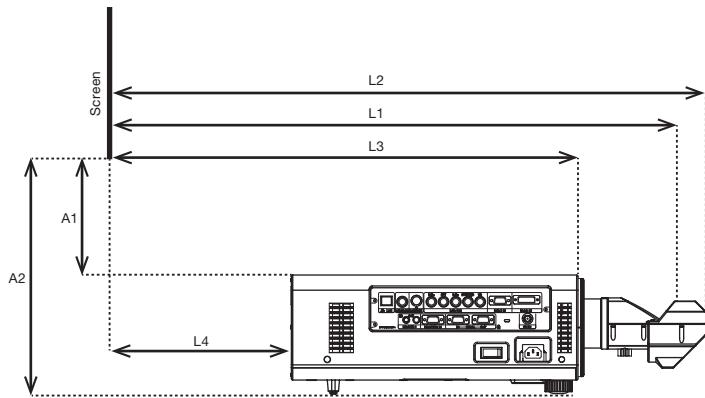
Unit : feet

Ultra-short focal length lens ET-DLE030 Close-up system dimensions									
Throw ratio				0.38:1	(0.39:1)	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)
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)				
100	2.54	4.4	7.1	2.7	2.8	2.1	0.5	1.4	2.1
120	3.05	5.3	8.5	3.2	3.3	2.7	1.0	1.7	2.4
150	3.81	6.6	10.6	4.0	4.1	3.5	1.8	2.2	2.9
200	5.08	8.8	14.1	5.4	5.4	4.8	3.1	3.1	3.7
250	6.35	11.0	17.7	6.7	6.8	6.1	4.5	3.9	4.5
300	7.62	13.3	21.2	8.0	8.1	7.5	5.8	4.7	5.4
350	8.89	15.5	24.7	9.4	9.4	8.8	7.1	5.5	6.2

* 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 16:10

Projection distance calculation formula

$$L1 \text{ (m)} = 0.3205 \times \text{Diagonal image size} + 0.0047$$

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

$$A1 \text{ (m)} = 0.1977 \times \text{Diagonal image size} - 0.07210$$

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				0.38:1	(0.4:1)	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)
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)				
100	2.54	1.25	2.21	0.84	0.86	0.68	0.16	0.51	0.71
120	3.05	1.49	2.66	1.01	1.03	0.84	0.33	0.63	0.83
150	3.81	1.87	3.32	1.26	1.28	1.09	0.58	0.81	1.01
200	5.08	2.49	4.43	1.68	1.70	1.51	1.00	1.10	1.30
250	6.35	3.11	5.54	2.10	2.12	1.93	1.42	1.39	1.59
300	7.62	3.74	6.64	2.51	2.54	2.35	1.84	1.68	1.88
350	8.89	4.36	7.75	2.93	2.95	2.77	2.25	1.98	2.18

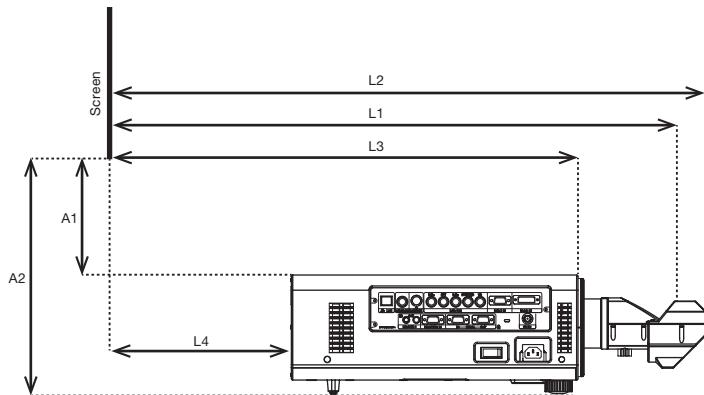
Unit : feet

Ultra-short focal length lens ET-DLE030 Close-up system dimensions									
Throw ratio				0.38:1	(0.4:1)	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)
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)				
100	2.54	4.1	7.3	2.8	2.8	2.2	0.5	1.7	2.3
120	3.05	4.9	8.7	3.3	3.4	2.8	1.1	2.1	2.7
150	3.81	6.1	10.9	4.1	4.2	3.6	1.9	2.6	3.3
200	5.08	8.2	14.5	5.5	5.6	5.0	3.3	3.6	4.3
250	6.35	10.2	18.2	6.9	7.0	6.3	4.6	4.6	5.2
300	7.62	12.3	21.8	8.2	8.3	7.7	6.0	5.5	6.2
350	8.89	14.3	25.4	9.6	9.7	9.1	7.4	6.5	7.1

* 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

$$L1 \text{ (m)} = 0.3294 \times \text{Diagonal image size} + 0.0047$$

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

$$A1 \text{ (m)} = 0.2304 \times \text{Diagonal image size} - 0.07210$$

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				0.38:1	(0.46:1)	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)
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)				
100	2.54	1.52	2.03	0.93	0.95	0.76	0.25	0.50	0.70
120	3.05	1.83	2.44	1.11	1.13	0.94	0.43	0.61	0.81
150	3.81	2.29	3.05	1.39	1.41	1.22	0.71	0.78	0.98
200	5.08	3.05	4.06	1.85	1.87	1.68	1.17	1.07	1.27
250	6.35	3.81	5.08	2.31	2.33	2.14	1.63	1.35	1.55
300	7.62	4.57	6.10	2.77	2.79	2.60	2.09	1.63	1.83
350	8.89	5.33	7.11	3.23	3.25	3.06	2.55	1.92	2.12

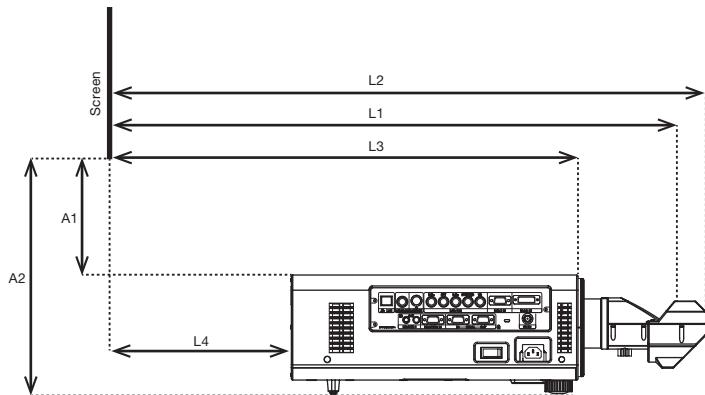
Unit : feet

Ultra-short focal length lens ET-DLE030 Close-up system dimensions									
Throw ratio				0.38:1	(0.46:1)	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)
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)				
100	2.54	5.0	6.7	3.0	3.1	2.5	0.8	1.6	2.3
120	3.05	6.0	8.0	3.6	3.7	3.1	1.4	2.0	2.7
150	3.81	7.5	10.0	4.6	4.6	4.0	2.3	2.6	3.2
200	5.08	10.0	13.3	6.1	6.1	5.5	3.8	3.5	4.2
250	6.35	12.5	16.7	7.6	7.6	7.0	5.3	4.4	5.1
300	7.62	15.0	20.0	9.1	9.2	8.5	6.9	5.4	6.0
350	8.89	17.5	23.3	10.6	10.7	10.1	8.4	6.3	6.9

* 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

$$L1 \text{ (m)} = 0.3628 \times \text{Diagonal image size} + 0.0047$$

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

$$A1 \text{ (m)} = 0.2238 \times \text{Diagonal image size} - 0.07210$$

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	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0174 - 0.0471$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0216 - 0.0442$
ET-DLE105	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0217 - 0.0511$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0291 - 0.0472$
ET-DLE150	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0286 - 0.0540$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0413 - 0.0498$
<i>Supplied lens/ ET-DLE170</i>	<i>minimum</i>	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0379 - 0.0746$
	<i>maximum</i>	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0529 - 0.0725$
ET-DLE250	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0500 - 0.0800$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0789 - 0.0792$
ET-DLE350	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0787 - 0.1351$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1190 - 0.1346$
ET-DLE450	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1192 - 0.3017$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1885 - 0.2991$
ET-DLE030	(fixed focus)	$L1 \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0081 - 0.0047$ $L3 \text{ (m)} = L1 - 0.166$ $L4 \text{ (m)} = L1 - 0.679$
ET-DLE055	(fixed focus)	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0175 - 0.0476$

Aspect ratio 16:9

ET-DLE085	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0179 - 0.0471$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0222 - 0.0442$
ET-DLE105	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0223 - 0.0511$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0299 - 0.0472$
ET-DLE150	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0294 - 0.0540$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0424 - 0.0498$
<i>Supplied lens/ ET-DLE170</i>	<i>minimum</i>	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0389 - 0.0746$
	<i>maximum</i>	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0543 - 0.0725$
ET-DLE250	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0513 - 0.0800$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0811 - 0.0792$
ET-DLE350	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0809 - 0.1351$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1223 - 0.1346$
ET-DLE450	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1225 - 0.3017$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1937 - 0.2991$
ET-DLE030	(fixed focus)	$L1 \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0084 - 0.0047$ $L3 \text{ (m)} = L1 - 0.166$ $L4 \text{ (m)} = L1 - 0.679$
ET-DLE055	(fixed focus)	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0180 - 0.0476$

Aspect ratio 4:3

ET-DLE085	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0197 - 0.0471$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0244 - 0.0442$
ET-DLE105	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0246 - 0.0511$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0329 - 0.0472$
ET-DLE150	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0324 - 0.0540$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0467 - 0.0498$
<i>Supplied lens/ ET-DLE170</i>	<i>minimum</i>	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0429 - 0.0746$
	<i>maximum</i>	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0599 - 0.0725$
ET-DLE250	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0565 - 0.0800$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0893 - 0.0792$
ET-DLE350	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0891 - 0.1351$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1347 - 0.1346$
ET-DLE450	minimum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.1349 - 0.3017$
	maximum	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.2133 - 0.2991$
ET-DLE030	(fixed focus)	$L1 \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0092 - 0.0047$ $L3 \text{ (m)} = L1 - 0.166$ $L4 \text{ (m)} = L1 - 0.679$
ET-DLE055	(fixed focus)	$L \text{ (m)} = (\text{diagonal screen size in inches}) \times 0.0198 - 0.0476$

- 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 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 |

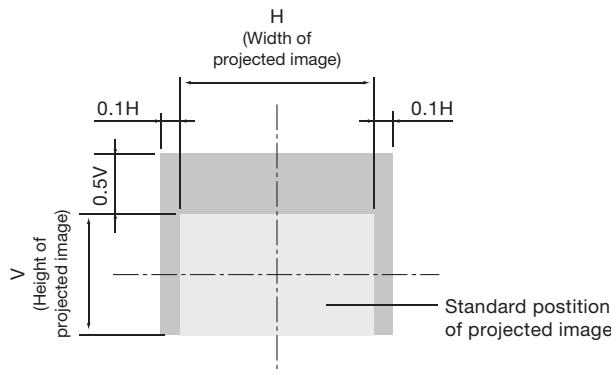
* There may be a small margin of error in the values obtained from the above formulas.

Shift range

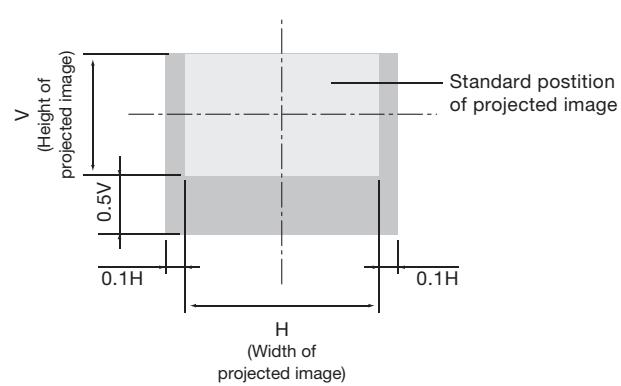
Optical axis shift function allows to shift the position of a projected image as shown below.

• Floor mount

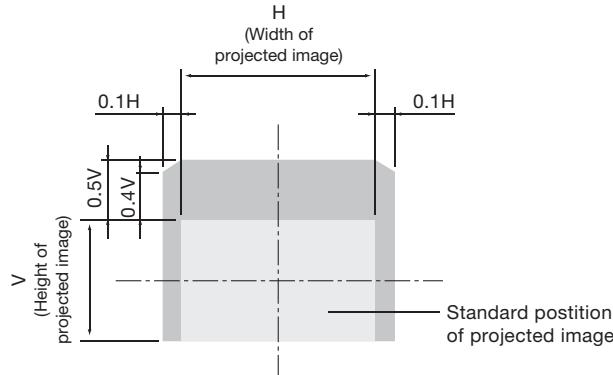
(When the lens except the ET-DLE085 and ET-DLE105 is mounted.)

**• Ceiling mount**

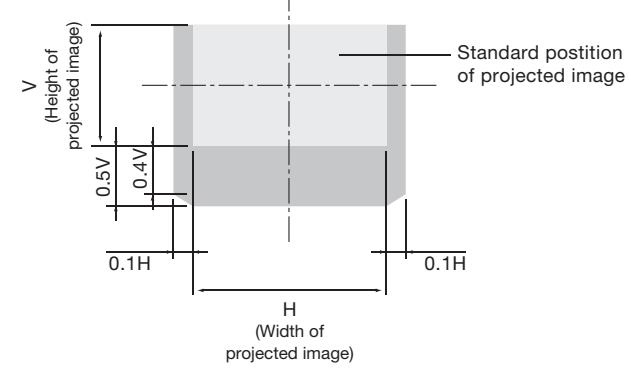
(When the lens except the ET-DLE085 and ET-DLE105 is mounted.)

**• Floor mount**

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

**• Ceiling mount**

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



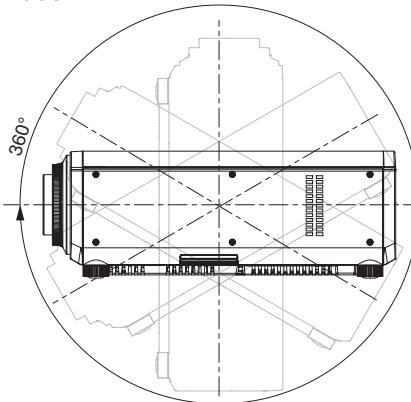
- The ET-DLE055 has a fixed short-focus lens. Therefore, the lens shift function provided in the main unit cannot be used.

Installable angle

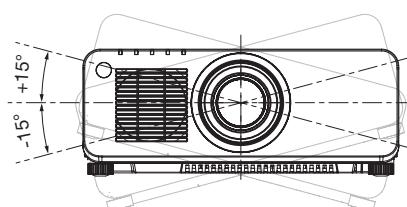
Install the projector at an angle within the range shown below.

• Vertical direction

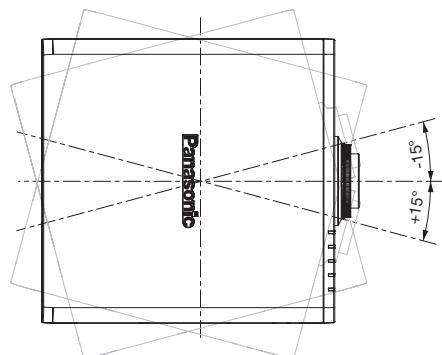
The projector may be installed at a vertical angle of 360°.

**• Horizontal direction**

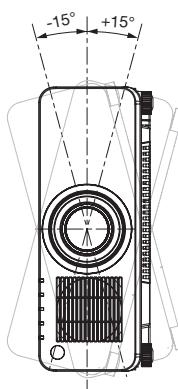
The projector may be installed at a horizontal angle of ±15°.

**• 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	SDI/YC _B C _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 _B C _R /RGB/
625p (576p)	720 × 576	31.3	50.0		HDMI/DVI-D
750 (720)/60p	1280 × 720	45.0	60.0	74.3	SDI/YPbPr/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	
		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	RGB/HDMI/DVI-D
		47.4	60.0	68.3	
		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	RGB/HDMI/DVI-D
		49.3	59.9	71.0	
		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	
		55.6	49.9	141.5	
		66.6	59.9	138.5	
		1920 × 1080	67.2	60.0	173.0
WUXGA	1920 × 1080	61.8	49.9	158.3	RGB/HDMI/DVI-D
		74.0	60.0	154.0	
		74.6	59.9	193.3	

*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		Dot clock frequency (MHz)	HDMI			DVI			
		H (kHz)	V (kHz)		Frame packing	Side by side* ²	Top and bottom	Side by side* ²	Top and bottom	Line by line	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				
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				
1125 (1080)/50p		56.3	50.0	148.5			-				
VGA480	640 × 480	31.5	59.9	25.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVGA	800 × 600	37.9	60.3	40.0			-				
XGA	1024 × 768	39.6	50.0	51.9			-				
		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			-				
1280 × 720	1280 × 720	37.1	49.8	60.5			-				
		44.8	59.9	74.5			-				
		76.3	100.0	131.8			-				
1280 × 768	1280 × 768	39.6	49.9	65.3	Yes	Yes	Yes	Yes	Yes	Yes	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	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	-	-	Yes	-	-	-	-
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			-				
		46.3	49.9	86.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UXGA60	1600 × 1200	75.0	60.0	162.0			-				
WSXGA+	1680 × 1050	65.3	60.0	146.3			-				
		54.1	50.0	119.5	-	-	Yes	-	-	-	-
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	-	-	-	-
	1920 × 1200 * ³	74.0	60.0	154.0			-				

*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		Dot clock frequency (MHz)	RGB1/RGB2				SDI			HDMI & DVI	RGB1 & RGB2	3G-SDI Level B
		H (kHz)	V (kHz)		Side by side*2	Top and bottom	Line by line	Frame sequential	Side by side*2	Top and bottom	Line by line			
750 (720)/60p	1280 × 720	45.0	60.0	74.3	Yes	Yes	Yes	—	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										
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		—						—	—	
		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		—								
		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.

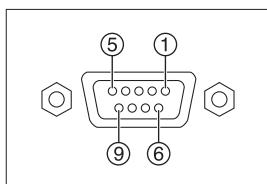
*2 Compatible with half-resolution signals.

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

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

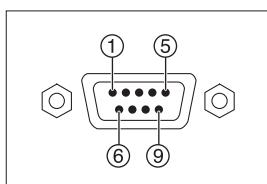
Serial connector

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

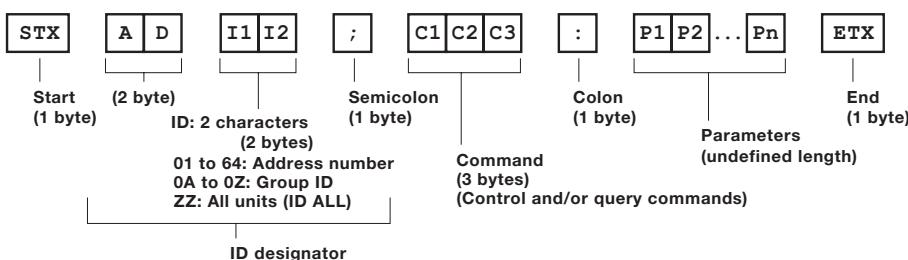
No.	Signal name	Description	No.	Signal name	Description
1	-	NC	6	-	NC
2	RXD	Receive data	7	RTS	Connected internally
3	TXD	Send data	8	CTS	Connected internally
4	-	NC	9	-	NC
5	GND	Ground			

Communication conditions (factory setting)

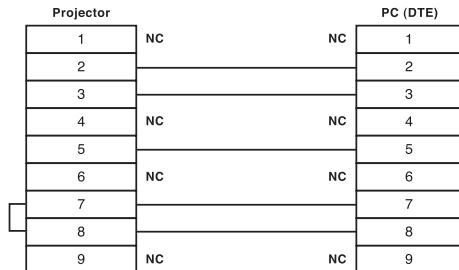
Signal level	RS-232C-compliant
Synchronization method	Start-stop synchronization
Baud rate	9,600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

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:
 - Set different IDs for each unit.
 - Designate only one unit as RESPONSE (ID ALL) ON and the rest as RESPONSE (ID ALL) OFF.
 - 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
POF		Standby power off
OSH:0	SHUTTER	Shutter off
OSH:1		Shutter on
IIS:SDI	INPUT SELECT	SDI
IIS:DL1		DIGITAL LINK
IIS:HD1		HDMI
IIS:DVI		DVI
IIS:RG1		RGB 1
IIS:RG2		RGB 2
IIS:VID		Video
VXX:RYC1=+00000	RGB INPUT SETTING	RGB/YCbCr/RGB
VXX:RYC1=+00001		S-Video
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:HD2		HDMI 2
IIS:DL1:PC1		Computer 1
IIS:DL1:PC2		Computer 2
IIS:DL1:VID		Video
IIS:DL1:SVD		S-Video
LPM:0	LAMP SELECT	Dual (two lamps)
LPM:1		Single lamp
LPM:2		Lamp 1
LPM:3		Lamp 2
OLP:0	Lamp power	Normal
OLP:1		Eco
VSE:1	ASPECT RATIO SWITCHING	Standard/VID Auto
VSE:2		4:3
VSE:5		16:9
VSE:6		HV fit
VSE:9		H fit
VSE:10		V fit
OAS	AUTO SETUP	OAS
VPM:NAT	PICTURE MODE	Natural
VPM:STD		Standard
VPM:DYN		Dynamic
VPM:CIN		Cinema
VPM:GRA		Graphic
VPM:709		Rec.709
VPM:dic		DICOM
VXX:DLVI0=+00000	SYSTEM DAYLIGHT VIEW	Off
VXX:DLVI0=+00001		1
VXX:DLVI0=+00002		2
VXX:DLVI0=+00003		3
OTE:4	COLOR TEMPERATURE	User 1
OTE:9		User 2
OTE:10		Default
OTE:3200		3200K
OTE:3300		3200K
:		:
OTE:9200		3200K
OTE:9300		3200K
TSD:y1y2y3y4m1m2d1d2w	DATE	Date setting
TST:h1h2m1m2s1s2	TIME	Time setting
OOS:0	ON SCREEN	On-screen display off
OOS:1		On-screen display on

* 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	SDI	SDI
		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:DLVIO	DLVIO=+00000	Off
		DLVIO=+00001	1
		DLVIO=+00002	2
		DLVIO=+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 p1 = Around lamp p2 = Optics module
QTM:1			
QTM:2			
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.

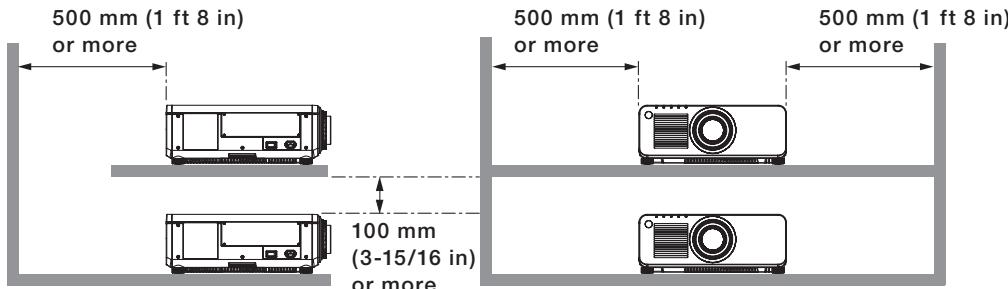


NOTE: When sending commands without parameters, a colon (:) is not necessary.

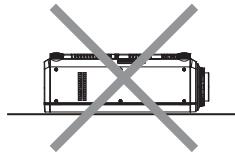
Notes on projector placement and operation

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.

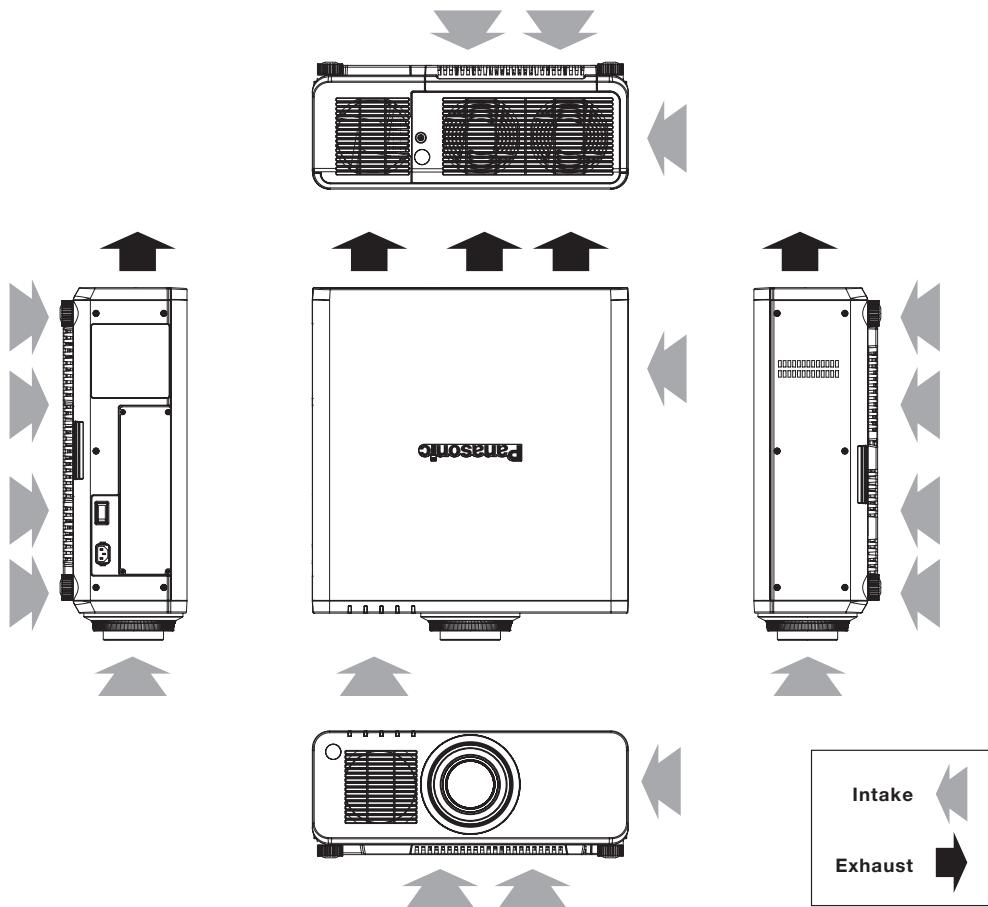


Do not stack projector units directly on top of one another.



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.

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