

S P E C F I L E



The PT-DW17K is not equipped with a lens.

Product Number : **PT-DW17K**

Product Name : 3-Chip DLP™ Projector

Specifications

Main unit

Power supply		200–240 V AC, 12 A, 50/60 Hz (3-wire single-phase)
Power consumption		2,300 W (2,350 VA) (0.3 W with STANDBY MODE set to ECO.* ¹ 9 W with STANDBY MODE set to NORMAL.), max. 7,848 BTU (without light output: 7,585 BTU)
DLP™ chip	Panel size	21.6 mm (0.85 inches) diagonal (16:10 aspect ratio)
	Display method	DLP™ chip × 3 (R, G, B), DLP™ projection system
	Pixels	1,049,088 (1,366 × 768) × 3, total of 3,147,264 pixels
Lens		Optional powered zoom/focus lenses
Lamp		465 W UHM lamps (× 4) (four lamp system)
Screen size		1.78–15.24 m (70–600 inches) (1.78–7.62 m (70–300 inches) with the ET-D75LE50), 16:9 aspect ratio
Brightness* ²		17,000 lumens (four lamp)
Center-to-corner uniformity* ²		90%
Contrast* ²		10,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution		1,366 × 768 pixels (Input signals that exceed this resolution will be converted to 1,366 × 768 pixels.)
Scanning frequency	HDMI/DVI-D	480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, VGA (640 × 480)–WUXGA (1,920 × 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz
	RGB	Horizontal: 15–100 kHz, vertical: 24–120 Hz, dot clock: 162 MHz or less
	YPbPr (YCbCr)	480i (525i): f _H 15.75 kHz; f _V 60 Hz, 576i (625i): f _H 15.63 kHz; f _V 50 Hz, 480p (525p): f _H 31.50 kHz; f _V 60 Hz, 576p (625p): f _H 31.25 kHz; f _V 50 Hz, 720 (750)/60p: f _H 45.00 kHz; f _V 60 Hz, 720 (750)/50p: f _H 37.50 kHz; f _V 50 Hz, 1035/60i: f _H 33.75 kHz; f _V 60 Hz, 1080 (1125)/60i: f _H 33.75 kHz; f _V 60 Hz, 1080 (1125)/50i: f _H 28.13 kHz; f _V 50 Hz, 1080/25p: f _H 28.13 kHz; f _V 25 Hz, 1080/24p: f _H 27.00 kHz; f _V 24 Hz, 1080/24sF: f _H 27.00 kHz; f _V 48 Hz, 1080/30p: f _H 33.75 kHz; f _V 30 Hz, 1080/60p: f _H 67.50 kHz; f _V 60 Hz, 1080/50p: f _H 56.25 kHz; f _V 50 Hz
	Video/S-Video	f _H : 15.75 kHz, f _V : 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] f _H : 15.63 kHz, f _V : 50 Hz [PAL/PAL-N/SECAM]
Optical axis shift	Vertical	±70% (±60% with the ET-D75LE6) from center of screen, powered
	Horizontal	±30% (±20% with the ET-D75LE6) from center of screen, powered
		NOTE: Optical axis shift function cannot be operated when used with the ET-D75LE50.
Keystone correction range		Vertical ±40° (±22° with the ET-D75LE50, ±28° with the ET-D75LE6)
Installation		Ceiling/floor, front/rear

Terminals	HDMI IN	HDMI 19-pin × 1, Deep Color, compatible with HDCP, 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p VGA (640 × 480)–WUXGA*4 (1,920 × 1,200), dot clock: 25 MHz–162 MHz NOTE: Compatible with non-interlaced signals only.
	DVI-D IN	DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible, for single link only 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, VGA (640 × 480)–WUXGA*4 (1,920 × 1,200), dot clock: 25 MHz–162 MHz NOTE: Compatible with non-interlaced signals 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) 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
	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) VIDEO IN	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms BNC × 1, 1.0 Vp-p, 75 ohms
	SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control
	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 × 1 for external control (parallel)
	LAN	RJ-45 × 1 for network connection, 100Base-TX/10Base-T, compliant with PLink™ (class 1)
Power cord length		3.0 m (9 ft 10 in)
Cabinet materials		Molded plastic
Dimensions (W × H × D):		620 × 291*5 × 800*6 mm (24-7/16 × 11-15/32*5 × 31-1/2*6 inches) (without lens)
Weight*7		Approx. 43 kg (94.8 lbs) (without lens)
Operation noise*2		49 dB (quad lamp operation)
Operating temperature		0°–45°C (32°–113°F)*8
Operating humidity		10%–80% (no condensation)

Remote control unit

Power supply	3 V DC (AA 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)	51 × 176 × 28 mm (2 × 6-15/16 × 1-3/32 inches)
Weight	Approx. 134 g (4.7 oz) (including batteries)

Supplied accessories

Power cord with security lock (× 1)
Wireless/wired remote control unit (× 1)
Batteries for remote control (AA type × 2)
Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)

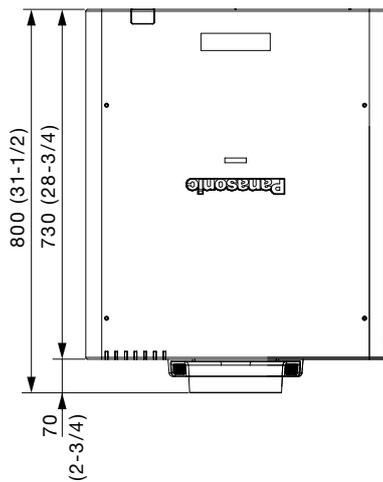
Optional accessories

Zoom lens (1.0–1.2:1)	ET-D75LE6
Zoom lens (1.4–1.9:1)	ET-D75LE10
Zoom lens (1.8–2.7:1)	ET-D75LE20
Zoom lens (2.7–5.2:1)	ET-D75LE30
Zoom lens (5.1–8.2:1)	ET-D75LE40
Zoom lens (8.2–15.4:1)	ET-D75LE8
Fixed-focus lens (0.8:1)	ET-D75LE50
Lens motor cover	ET-D75MC1
Ceiling mount bracket	ET-PKD510H (for high ceilings) ET-PKD510S (for low ceilings)
Frame	ET-PFD510
Smoke cut filter	ET-SFR510
Upgrade kit	ET-UK20
Replacement lamp unit	ET-LAD510 (one bulb) ET-LAD510F (a set of four bulbs)
Replacement lamp unit for portrait mode	ET-LAD510P (one bulb) ET-LAD510PF (a set of four bulbs)
Replacement filter unit	ET-EMF510

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

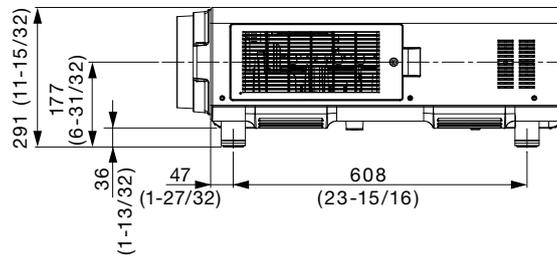
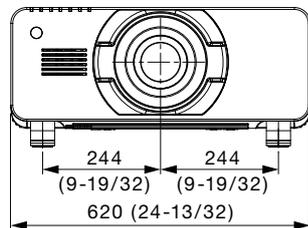
- *1 When the standby mode is set to eco, network functions such as power on over the LAN network will not operate, and the serial output terminal cannot be used. Also, only certain commands can be received for external control using the serial terminal.
- *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- *3 Up to a total of ±55° during simultaneous horizontal and vertical correction.
- *4 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).
- *5 With legs at shortest position.
- *6 Excluding the optional lens.
- *7 Average value (excluding the optional lens). 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). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in places at high altitude. The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the ET-LAD510P/LAD510PF lamp is mounted and the projector is used in portrait configuration. The operating temperature range is 0 °C to 35 °C (32 °F to 95 °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). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 30 °C (32 °F to 86 °F).
- *9 Operation range differs depending on environments.

Dimensions

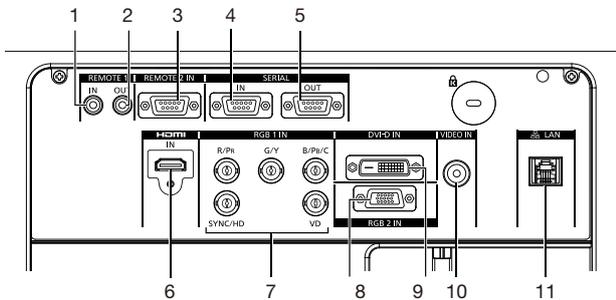


unit : mm (inch)

NOTE: This illustration is not drawn to scale.

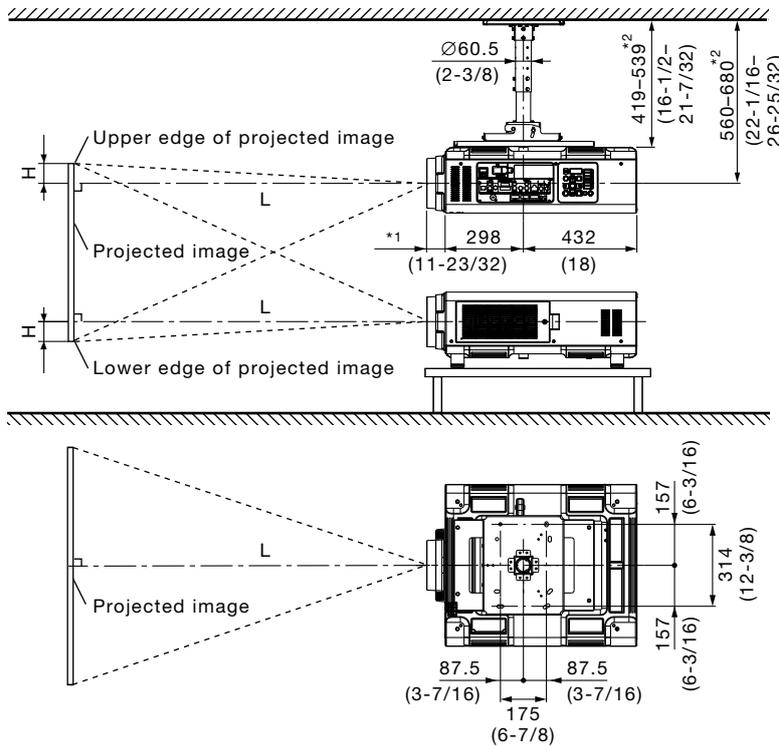


Terminals



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

Standard setting-up position



*1 When the lens protrudes to the maximum.
 212 mm (8-11/32) with the ET-D75LE6
 125 mm (4-29/32) with the ET-D75LE10
 121 mm (4-3/4) with the ET-D75LE20
 121 mm (4-3/4) with the ET-D75LE30
 124 mm (4-7/8) with the ET-D75LE40
 254 mm (10) with the ET-D75LE8
 203 mm (8) with the ET-D75LE50

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

unit : mm (inch)

NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKD510H 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. To prevent the projector from swaying or dropping, attach the wire that is included with the projector between the mounting bracket and the ceiling.

Projection distance for 16:9 aspect ratio screen
(ET-D75LE6/D75LE10/D75LE20/D75LE30/D75LE40/D75LE8/D75LE50)

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-D75LE6 Zoom lens		ET-D75LE10 Zoom lens		ET-D75LE20 Zoom lens		ET-D75LE30 Zoom lens		ET-D75LE40 Zoom lens		ET-D75LE8 Zoom lens		ET-D75LE50 Fixed-focus lens	Except ET-D75LE6				
[m] / [in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.						
1.78 / 70	1.56	1.87	2.18	2.82	2.82	4.10	4.07	7.94	7.86	12.62	12.43	23.65	1.16	-0.17	-1.05	-0.09	-0.96	0.44
2.03 / 80	1.79	2.14	2.51	3.24	3.23	4.70	4.67	9.10	9.01	14.45	14.26	27.08	1.34	-0.20	-1.20	-0.10	-1.10	0.50
2.29 / 90	2.02	2.42	2.83	3.66	3.65	5.31	5.27	10.26	10.15	16.27	16.09	30.51	1.51	-0.22	-1.35	-0.11	-1.23	0.56
2.54 / 100	2.25	2.70	3.16	4.08	4.06	5.91	5.87	11.42	11.30	18.10	17.92	33.94	1.69	-0.25	-1.49	-0.13	-1.37	0.62
3.05 / 120	2.72	3.25	3.80	4.92	4.89	7.11	7.07	13.75	13.59	21.75	21.59	40.80	2.04	-0.30	-1.79	-0.15	-1.64	0.75
3.81 / 150	3.41	4.08	4.78	6.18	6.14	8.92	8.86	17.23	17.02	27.23	27.08	51.10	2.57	-0.37	-2.24	-0.19	-2.06	0.93
5.08 / 200	4.56	5.47	6.40	8.27	8.21	11.93	11.85	23.03	22.75	36.36	36.23	68.25	3.45	-0.50	-2.99	-0.25	-2.74	1.25
6.35 / 250	5.72	6.85	8.02	10.36	10.28	14.95	14.84	28.83	28.48	45.49	45.39	85.40	4.33	-0.62	-3.74	-0.31	-3.42	1.56
7.62 / 300	6.87	8.24	9.64	12.46	12.36	17.96	17.83	34.63	34.20	54.62	54.54	102.55	5.21	-0.75	-4.48	-0.37	-4.11	1.87
10.16 / 400	9.18	11.01	12.88	16.65	16.50	23.98	23.81	46.23	45.66	72.88	72.85	136.85	-	-1.00	-5.98	-0.50	-5.48	-
12.70 / 500	11.49	13.78	16.12	20.84	20.65	30.01	29.80	57.83	57.11	91.14	91.16	171.16	-	-1.25	-7.47	-0.62	-6.85	-
15.24 / 600	13.80	16.55	19.36	25.02	24.80	36.03	35.78	69.43	68.56	109.40	109.47	205.46	-	-1.49	-8.97	-0.75	-8.22	-

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-D75LE6 Zoom lens		ET-D75LE10 Zoom lens		ET-D75LE20 Zoom lens		ET-D75LE30 Zoom lens		ET-D75LE40 Zoom lens		ET-D75LE8 Zoom lens		ET-D75LE50 Fixed-focus lens	Except ET-D75LE6				
[m] / [in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.						
1.78 / 70	5.1	6.1	7.2	9.3	9.2	13.5	13.4	26.1	25.8	41.4	40.8	77.6	3.8	-0.6	3.4	-0.3	3.1	1.4
2.03 / 80	5.9	7.0	8.2	10.6	10.6	15.4	15.3	29.9	29.5	47.4	46.8	88.9	4.4	-0.7	3.9	-0.3	3.6	1.6
2.29 / 90	6.6	7.9	9.3	12.0	12.0	17.4	17.3	33.7	33.3	53.4	52.8	100.1	5.0	-0.7	4.4	-0.4	4.0	1.8
2.54 / 100	7.4	8.8	10.4	13.4	13.3	19.4	19.3	37.5	37.1	59.4	58.8	111.4	5.5	-0.8	4.9	-0.4	4.5	2.0
3.05 / 120	8.9	10.7	12.5	16.1	16.0	23.3	23.2	45.1	44.6	71.4	70.8	133.9	6.7	-1.0	5.9	-0.5	5.4	2.5
3.81 / 150	11.2	13.4	15.7	20.3	20.1	29.3	29.1	56.5	55.8	89.3	88.8	167.6	8.4	-1.2	7.4	-0.6	6.7	3.1
5.08 / 200	15.0	17.9	21.0	27.1	26.9	39.2	38.9	75.5	74.6	119.3	118.9	223.9	11.3	-1.6	9.8	-0.8	9.0	4.1
6.35 / 250	18.8	22.5	26.3	34.0	33.7	49.0	48.7	94.6	93.4	149.2	148.9	280.2	14.2	-2.0	12.3	-1.0	11.2	5.1
7.62 / 300	22.5	27.0	31.6	40.9	40.5	58.9	58.5	113.6	112.2	179.2	178.9	336.4	17.1	-2.5	14.7	-1.2	13.5	6.1
10.16 / 400	30.1	36.1	42.2	54.6	54.1	78.7	78.1	151.7	149.8	239.1	239.0	449.0	-	-3.3	19.6	-1.6	18.0	-
12.70 / 500	37.7	45.2	52.9	68.4	67.7	98.5	97.8	189.7	187.4	299.0	299.1	561.5	-	-4.1	24.5	-2.0	22.5	-
15.24 / 600	45.3	54.3	63.5	82.1	81.3	118.2	117.4	227.8	224.9	358.9	359.1	674.1	-	-4.9	29.4	-2.5	27.0	-

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

NOTE: When the ET-D75LE50 is mounted, the optical lens shift function cannot be used.

Calculation of the projection distance

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

Aspect ratio 16:9**Zoom lenses**

ET-D75LE6	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0231 - 0.0566$
	maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0277 - 0.0736$
ET-D75LE10	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0324 - 0.0857$
	maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0419 - 0.1085$
ET-D75LE20	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0415 - 0.0832$
	maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0602 - 0.1162$
ET-D75LE30	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0598 - 0.1131$
	maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1160 - 0.1765$
ET-D75LE40	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1145 - 0.1577$
	maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1826 - 0.1615$
ET-D75LE8	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1831 - 0.3862$
	maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.3430 - 0.3598$

Fixed-focus lens

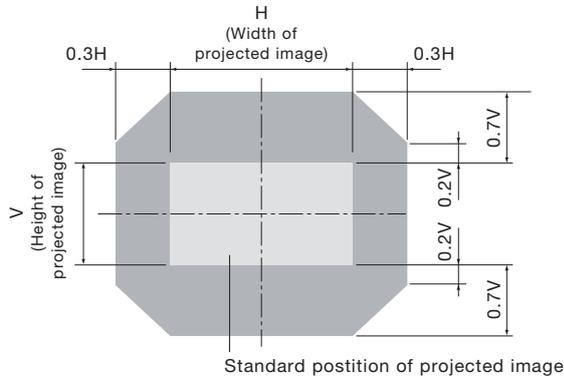
ET-D75LE50		$L (m) = (\text{diagonal screen size in inches}) \times 0.0176 - 0.0713$
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• Distances calculated with the above equations will include slight deviations.

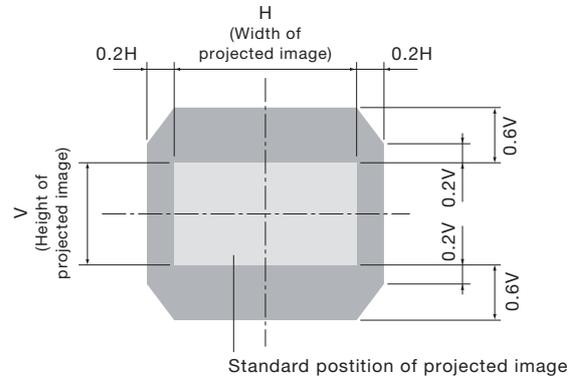
Shift range

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

- When the lens except the ET-D75LE6 is mounted



- When the ET-D75LE6 is mounted



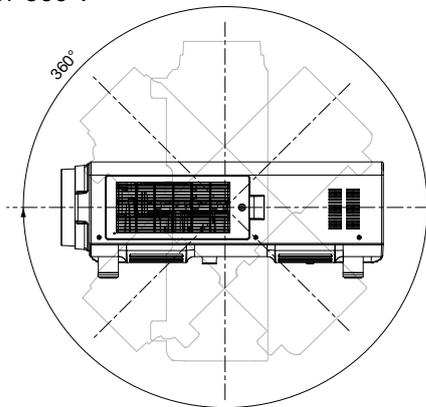
- Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.

Installable angle

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

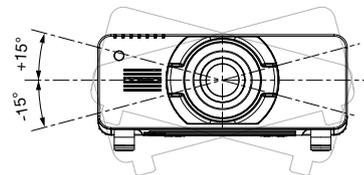
- **Vertical direction**

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



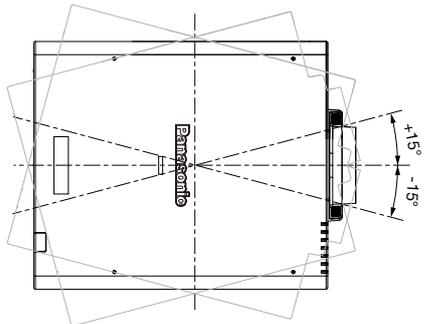
- **Horizontal direction**

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



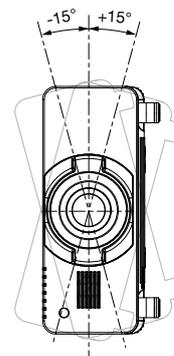
- **Vertical direction in portrait mode with the ET-LAD510P/LAD510PF mounted**

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



- **Horizontal direction in portrait mode with the ET-LAD510P/LAD510PF 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 1,366 × 768 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

Display mode	Display resolution (dots)*1	Scanning frequency		Dot clock frequency (MHz)	Format
		H (kHz)	V (kHz)		
NTSC/NTSC4.43/PAL-M/PAL60	720 × 480i	15.7	59.9	–	VIDEO/S-VIDEO
PAL/PAL-N/SECAM	720 × 576i	15.6	50.0	–	
480i (525i)	720 × 480i	15.7	59.9	13.5	SDI/RGB/YCbCr
576i (625i)	720 × 576i	15.6	50.0	13.5	
480p (525p)	720 × 483	31.5	59.9	27.0	HDMI/DVI-D/ RGB/YCbCr
576p (625p)	720 × 576	31.3	50.0		
720/60p	1280 × 720	45.0	60.0	74.3	SDI/HDMI/DVI-D/ RGB/YpPr
720/50p		37.5	50.0		
1080/60i	1920 × 1080i	33.8	60.0		
1080/50i		28.1	50.0		
1080/24p	1920 × 1080	27.0	24.0		
1080/24sF	1920 × 1080i				
1080/25p	1920 × 1080	28.1	25.0		
1080/30p		33.8	30.0		
1080/60p		67.5	60.0	148.5	SDI*2/HDMI/DVI-D/ RGB/YpPr
1080/50p		56.3	50.0		
VGA400	640 × 400	31.5	70.1	25.2	HDMI/DVI-D/RGB
		37.9	85.1	31.5	
VGA480	640 × 480	31.5	59.9	25.2	
		35.0	66.7	30.2	
		37.9	72.8	31.5	
		37.5	75.0	31.5	
		43.3	85.0	36.0	
SVGA	800 × 600	35.2	56.3	36.0	
		37.9	60.3	40.0	
		48.1	72.2	50.0	
		46.9	75.0	49.5	
		53.7	85.1	56.3	
MAC16	832 × 624	49.7	74.6	57.3	
XGA	1024 × 768	39.6	50.0	51.9	
		48.4	60.0	65.0	
		56.5	70.1	75.0	
		60.0	75.0	78.8	
		65.5	81.6	86.0	
		68.7	85.0	94.5	
		81.4	100.0	113.3	
		98.8	120.0	139.1	
MXGA	1152 × 864	53.7	60.0	81.6	
		64.0	71.2	94.2	
		67.5	74.9	108.0	
		76.7	85.0	121.5	
MAC21	1152 × 870	68.7	75.1	100.0	

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

*2 For dual-link connection only.

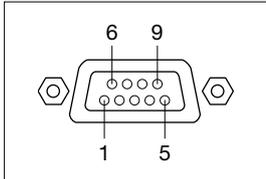
Display mode	Display resolution (dots)	Scanning frequency		Dot clock frequency (MHz)	Format
		H (kHz)	V (kHz)		
1280 × 720	1280 × 720	37.1	49.8	60.5	HDMI/DVI-D/RGB
		44.8	59.9	74.5	
		76.3	100.0	131.8	
		92.6	120.0	161.6	
1280 × 768	1280 × 768	39.6	49.9	65.3	
		47.8	59.9	79.5	
	1280 × 768*	47.4	60.0	68.3	
	1280 × 768	60.3	74.9	102.3	
1280 × 800	1280 × 800	68.6	84.8	117.5	
		41.3	50.0	68.0	
	49.7	59.8	83.5		
	1280 × 800*	49.3	59.9	71.0	
1280 × 800	1280 × 800	62.8	74.9	106.5	
		71.6	84.9	122.5	
		60.0	60.0	108.0	
		MSXGA	1280 × 960	52.4	
SXGA	1280 × 1024	64.0	60.0	108.0	
		72.3		125.0	
		78.2		135.1	
		80.0	66.3	135.0	
		91.1	72.0	157.5	
1366×768	1280 × 768	47.7	75.0	85.5	
		39.6	85.0	69.0	
SXGA+	1400 × 1050	54.1	59.8	99.9	
		64.0	49.9	108.0	
		65.2	50.0	122.6	
		65.3	60.0	121.8	
		78.8		149.3	
WXGA+	1440 × 900	82.2	72.0	155.9	
		55.9	75.0	106.5	
UXGA60	1600 × 1200	46.3	59.9	86.8	
		75.0	49.9	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*	66.6	59.9	138.5	
	1920 × 1080	67.2	60.0	173.0	
WUXGA	1920 × 1200				RGB
		61.8	49.9	158.3	HDMI/DVI-D/RGB
	1920 × 1200*	74.0	60.0	154.0	
	1920 × 1200	74.6	59.9	193.3	

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

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.

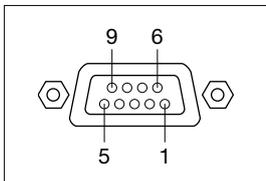
Pin assignments and signal names



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	-	Connected internally	9	-	NC
5	GND	Ground			

Pin assignments and signal names



D-sub 9-pin (male) Serial output

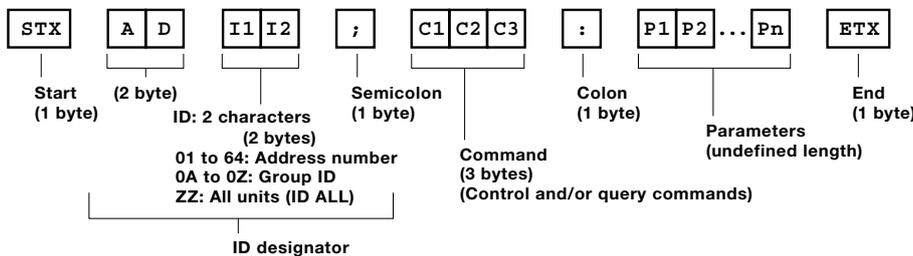
No.	Signal name	Description	No.	Signal name	Description
1	-	NC	6	-	NC
2	RXD	Receive data	7	RTS	Connected internally
3	TXD	Send data	8	CTS	Connected internally
4	-	Connected internally	9	-	NC
5	GND	Ground			

Communication conditions (factory setting)

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

Basic format

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



CAUTION

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

Cable specifications

Projector		PC (DTE)	
1	NC	NC	1
2			2
3			3
4	NC	NC	4
5			5
6	NC	NC	6
7			7
8			8
9	NC	NC	9

Control commands

Command : Parameter	Function		Callback
PON	POWER (STANDBY)	Standby power on	PON
POF		Standby power off	POF
IIS:HD1	INPUT SELECT	HDMI	IIS:HD1
IIS:DVI		DVI	IIS:DVI
IIS:RG1		RGB 1	IIS:RG1
IIS:RG2		RGB 2	IIS:RG2
IIS:VID		Video	IIS:VID
LPM:0	LAMP SELECT	Quad (four lamps)	LPM:0
LPM:1		Lamp 1 + 4	LPM:1
LPM:2		Lamp 2 + 3	LPM:2
LPM:3		Dual (two lamps)	LPM:3
LPM:4		Lamp 1 + 2 + 3	LPM:4
LPM:5		Lamp 1 + 2 + 4	LPM:5
LPM:6		Lamp 1 + 3 + 4	LPM:6
LPM:7		Lamp 2 + 3 + 4	LPM:7
LPM:8		Triple (three lamps)	LPM:8
LPM:9		Lamp 1	LPM:9
LPM:10		Lamp 2	LPM:10
LPM:11		Lamp 3	LPM:11
LPM:12		Lamp 4	LPM:12
LPM:13	Single lamp	LPM:13	
OSH:0	SHUTTER	Shutter off	OSH:0
OSH:1		Shutter on	OSH:1
OPP:0	P IN P SELECT	Off	OPP:0
OPP:1		User 1	OPP:1
OPP:2		User 2	OPP:2
OPP:3		User 3	OPP:3
OAS	AUTO SETUP		OAS
VPM:NAT	PICTURE MODE	Natural	VPM:NAT
VPM:STD		Standard	VPM:STD
VPM:DYN		Dynamic	VPM:DYN
VPM:CIN		Cinema	VPM:CIN
VPM:GRA		Graphic	VPM:GRA
VPM:DIC		DICOM	VPM:DIC
VXX:DLVI0=+00000	SYSTEM DAYLIGHT VIEW	Off	VXX:DLVI0=+00000
VXX:DLVI0=+00001		1	VXX:DLVI0=+00001
VXX:DLVI0=+00002		2	VXX:DLVI0=+00002
VXX:DLVI0=+00003		3	VXX:DLVI0=+00003
OTE:4	COLOR TEMPERATURE	User 1	OTE:4
OTE:9		User 2	OTE:9
OTE:10		Default	OTE:10
OTE: p1p2p3p4		3200 K – 9300 K (100 K steps)	OTE: p1p2p3p4
TSD:y1y2y3y4m1m2d1d2w	DATE	Date setting	TSD:y1y2y3y4m1m2d1d2w
TST:h1h2m1m2s1s2	TIME	Time setting	TST:h1h2m1m2s1s2
OOS:0	ON SCREEN	On-screen display off	OOS:0
OOS:1		On-screen display on	OOS:1

* Do not send PON, POF, OSH, or OLP 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, 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
QFZ	Freeze function status	0	Off
		1	On
QIN	Input signal status	HD1	HDMI
		DVI	DVI
		RG1	RGB 1
		RG2	RGB 2
		VID	Video
QOS	On-screen display status	0	Off
		1	On
QST	Projector run time	p1p2p3p4p5	0000h-9999h
Q\$L:1	Lamp 1 run time	p1p2p3p4	0000h-9999h
Q\$L:2	Lamp 2 run time	p1p2p3p4	0000h-9999h
Q\$L:3	Lamp 3 run time	p1p2p3p4	0000h-9999h
Q\$L:4	Lamp 4 run time	p1p2p3p4	0000h-9999h
QSL	Lamp operation mode status	0	Quad (four lamps)
		1	Lamp 1 + 4
		2	Lamp 2 + 3
		3	Dual (two lamps)
		4	Lamp 1 + 2 + 3
		5	Lamp 1 + 2 + 4
		6	Lamp 1 + 3 + 4
		7	Lamp 2 + 3 + 4
		8	Triple (three lamps)
		9	Lamp 1
		10	Lamp 2
		11	Lamp 3
		12	Lamp 4
		13	Single lamp
QPM	Picture mode status	NAT	Natural
		STD	Standard
		DYN	Dynamic
		CIN	Cinema
		GRA	Graphic
		DIC	DICOM
QVX:DLVIO	System daylight view status	DLVIO=+00000	Off
		DLVIO=+00001	1
		DLVIO=+00002	2
		DLVIO=+00003	3
QPP	P in P status	0	Off
		1	User 1
		2	User 2
		3	User 3
QTM:0	Temperature status	p1p2p3p4/p5p6p7p8*1	p0 = Intake air
QTM:1			p1 = Around lamp
QTM:2			p2 = Optics module
QGD	Date setting status	y1y2y3y4m1m2d1d2w	yyyymmdd (day of week)*2
QGT	Time setting status	h1h2m1m2s1s2	hhmmss*3

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

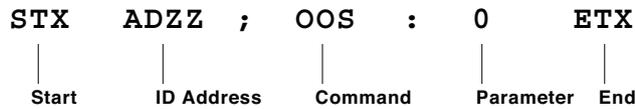
*2 Day of week: Monday = 1, Tuesday = 2, ... Sunday = 7

*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.

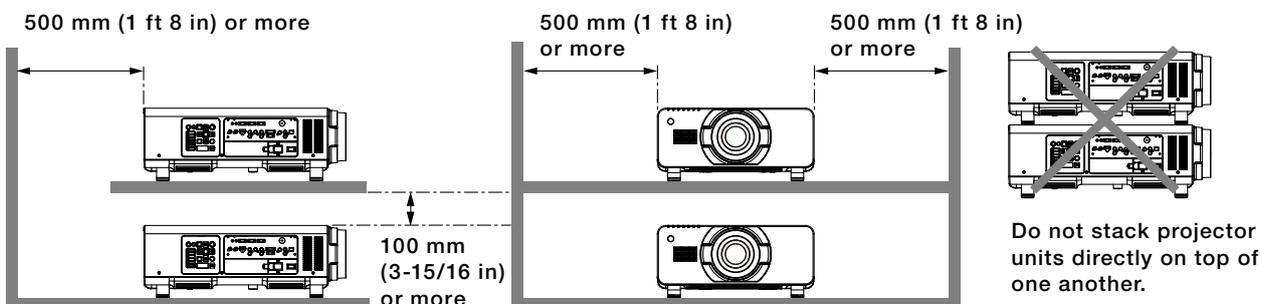


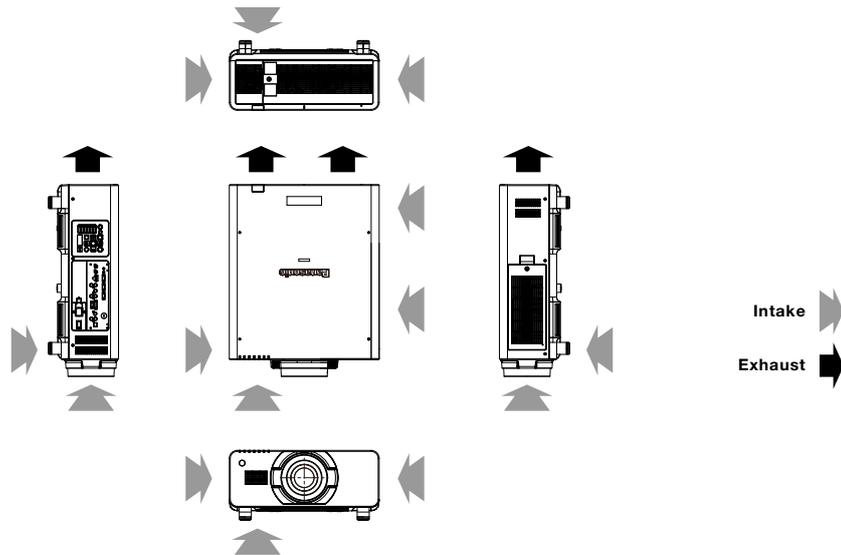
NOTE: When sending commands without parameters, a colon (:) is not necessary.

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 while it is operating.
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. If two units must be stacked for back-up use in ordinary projection, use a method as shown below and provide ample space between the units to ensure that exhaust heat does not accumulate near the intake opening or around the units. Dual stacked projection is not recommended.
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 temperature of the air surrounding the projector is between 0°C and 40°C (32°F and 104°F). Also make sure that the projector's intake and exhaust openings are not blocked. Even though the air surrounding the projector is 40°C (104°F) or less, if hot exhaust air accumulates inside the space, it may cause the projector's protective circuit to interrupt projector operation. Pay particular attention to the surrounding temperature conditions when planning the installation.
7. If the projector is not to be set on the floor using adjuster legs, install it by using the five ceiling-mount screw holes (screw diameter: M6, length of each screw hole in the projector: 30 mm (1-3/16 inches)). Provide a space of 5 mm (3/16 inches) or more between the projector and the mounting surface by inserting metal spacers.



Direction of air intake and exhaust**Operating the projector continuously**

1. If the projector is to be operated continuously one week, use the quad-lamp optical system's alternating lamp operation (lamp relay) function. The projector cannot be operated continuously one week in quad-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.

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