Panasonic

S F С Р E . L Е



The PT-DW17K is not equipped with a lens.

Product Name :

Product Number : PT-DW17K

3-Chip DLP[™] Projector

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Specifications		
Main unit		
Power supply Power consumption		200-240 V AC, 12 A, 50/60 Hz (3-wire single-phase) 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 Display method Pixels	21.6 mm (0.85 inches) diagonal (16:10 aspect ratio) DLP™ chip × 3 (R, G, B), DLP™ projection system 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		1.78-25.4 m (70-1,000 inches) (1.78-15.24 m (70-600 inches) with the ET-D75LE8), 16:9 aspect ratio
Brightness*2		17,000 lumens (four lamp)
Center-to-corner unifor	mity*2	90%
Contrast*2		10,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution		$1,366 \times 768$ pixels (Input signals that exceed this resolution will be
0		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) Video/S-Video	480i (525i):fH 15.75 kHz; fv 60 Hz,576i (625i):fH 15.63 kHz; fv 50 Hz,480p (525p):fH 31.50 kHz; fv 60 Hz,576p (625p):fH 31.25 kHz; fv 50 Hz,720 (750)/60p:fH 45.00 kHz; fv 60 Hz,720 (750)/50p:fH 37.50 kHz; fv 50 Hz,1035/60i:fH 33.75 kHz; fv 60 Hz,1080 (1125)/60i:fH 33.75 kHz; fv 60 Hz,1080 (1125)/50i:fH 28.13 kHz; fv 50 Hz,1080/24p:fH 27.00 kHz; fv 24 Hz,1080/24p:fH 27.00 kHz; fv 48 Hz,1080/30p:fH 33.75 kHz; fv 60 Hz,1080/60p:fH 67.50 kHz; fv 60 Hz,1080/50p:fH 67.50 kHz; fv 50 Hz,1080/50p:fH 67.50 kHz; fv 50 Hz,1080/50p:fH 67.50 kHz; fv 60 Hz,1080/50p:fH 67.50 kHz; fv 50 Hz,1080/50p:fH 67.50 kHz; fv 60 Hz,1080/50p:fH 67.50 kHz; fv 60 Hz,1080/50p:fH 67.50 kHz; fv 50 Hz,1080/50p:fH 67.50 kHz; fv 60 Hz,1080/50p:fH 56.25 kHz; fv 50 Hz,fH: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60]
Optical axis shift	Vertical Horizontal	fH: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM] \pm 70% (\pm 60% with the ET-D75LE6) from center of screen, powered \pm 30% (\pm 20% with the ET-D75LE6) from center of screen, powered NOTE: Optical axis shift function cannot be operated when used with the
Koustana armeticu		ET-D75LE50.
Keystone correction rai	nge	Vertical ±40° (±22° with the ET-D75LE50, ±28° with the ET-D75LE6)

Installation

Panasonic

Ceiling/floor, front/rear

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SPEC FILE

3-Chip DLP™ Proje	ctor	PT- DW17K
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),
	DVI-D IN	dot clock: 25–162 MHz NOTE: Compatible with non-interlaced signals only. 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: 25-162 MHz NOTE: Compatible with non-interlaced signals only.
	RGB 1 IN	BNC \times 5
	R, G, B	 B: 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 RGB 2 IN R, G, B	 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 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 SERIAL IN SERIAL OUT REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN LAN	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 D-sub 9-pin (female) × 1 for external control (RS-232C compliant) D-sub 9-pin (male) × 1 for link control M3 jack × 1 for wired remote control M3 jack × 1 for link control D-sub 9-pin (female) × 1 for external control (parallel) RJ-45 × 1 for network connection, 100Base-TX/10Base-T, compliant with PJLink [™] (class 1)
Power cord length Cabinet materials Dimensions (W × H × D): Weight ^{*7} Operation noise ^{*2} Operating temperature		3.0 m (9 ft 10 in) Molded plastic 620 × 291* ⁵ × 800* ⁶ mm (24-7/16 × 11-15/32* ⁵ × 31-1/2* ⁶ inches) (without lens) Approx. 43 kg (94.8 lbs) (without lens) 49 dB (quad lamp operation) 0°-45°C (32°-113°F)* ⁸
Operating humidity		10%-80% (no condensation)

Remote control unit

Power supply Operation range*9

Dimensions (W \times H \times D) Weight

Supplied accessories

Optional accessories

Zoom lens (1.0-1.2:1) Zoom lens (1.4-1.9:1) Zoom lens (1.8-2.7:1) Zoom lens (2.7-5.2:1) Zoom lens (5.1-8.2:1) Zoom lens (8.2-15.4:1) Fixed-focus lens (0.8:1) Lens motor cover Ceiling mount bracket

Frame Smoke cut filter Replacement lamp unit

Replacement lamp unit for portrait mode

Replacement filter unit

3 V DC (AA/R6 type battery \times 2) Approx. 30 m (98 fift \mathbb{K} in) when operated from directly in front of the signal receptor 51 \times 176 \times 28 mm (2 \times 6-15/16 \times 1-3/32 inches) Approx. 134 g (4.7 oz) (including batteries)

Power cord with security lock (× 1) Wireless/wired remote control unit (× 1) Batteries for remote control (AA/R6 type × 2) Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)

ET-D75LE6 ET-D75LE10 ET-D75LE20 ET-D75LE30 ET-D75LE40 ET-D75LE8 ET-D75LE50 FT-D75MC1 ET-PKD510H (for high ceilings) ET-PKD510S (for low ceilings) ET-PFD510 FT-SFR510 ET-LAD510 (one bulb) ET-LAD510F (a set of four bulbs) ET-LAD510P (one bulb) ET-LAD510PF (a set of four bulbs) 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 termi-

nal 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 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 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).

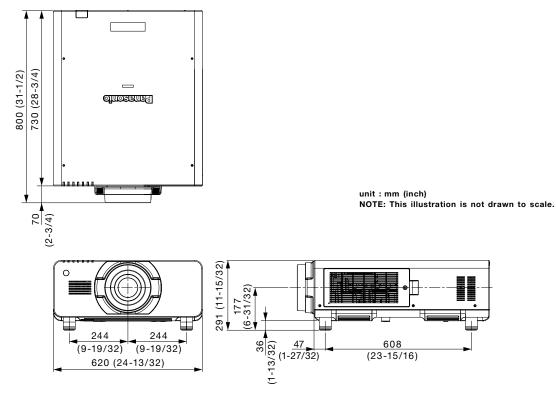
*9 Operation range differs depending on environments.

As of July 2013

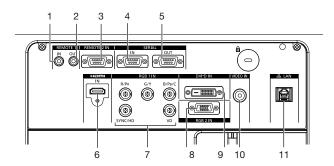




Dimensions



Terminals

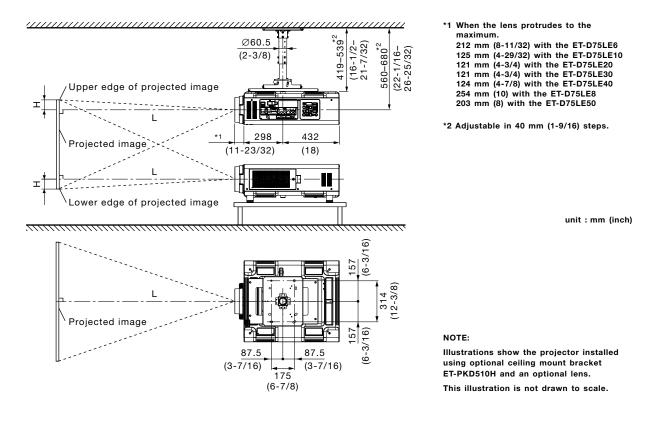


- 1 Remote 1 input
- 2 Remote 1 output

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- 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



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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)

Screen							Distance	to scree	en (L)						Height from the edge of screen to center of lens (H)		
(diagona	al)								Zoom					Fixed-focus	to cen	ter of lens (H)	1
			75LE6 n lens		'5LE10 n lens		75LE20 m lens		D75LE30 om lens		075LE40 om lens		75LE8 n lens	ET-D75LE50 Fixed-focus	Except	lenses ET-D75LE6	Fixed- focus
[m] /	[in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	– lens	ET-D75LE6		lens
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	12.24	-1.00 - 5.98	-0.50 - 5.48	4.36
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	14.00	-1.25 – 7.47	-0.62 - 6.85	4.98
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	15.76	-1.49 – 8.97	-0.75 - 8.22	5.60
17.78/	700	16.11	19.32	22.60	29.21	28.94	42.06	41.76	81.03	80.02	127.66	127.78	_	17.52	-1.74 -10.46	-0.87 9.59	6.23
20.32/	800	18.42	22.09	25.84	33.40	33.09	48.08	47.74	92.63	91.47	145.92	146.09	_	6.97	-1.99 -11.96	-1.00 10.96	2.49
22.86/	900	20.73	24.86	29.08	37.59	37.23	54.11	53.72	104.23	102.92	164.18	164.40	_	8.72	-2.24 -13.45	-1.12 12.33	3.11
25.40/1	1000	23.04	27.63	32.32	41.78	41.38	60.13	59.71	115.83	114.38	182.42	182.70	_	10.48	-2.49 -14.94	-1.25 13.70	3.74

Screen siz	е						Distance	e to scree	en (L)						Height from the edge of screen				
(diagonal)		Zoom Fixed-focu						Fixed-focus	to center of lens (H)										
		ET-D7 Zoom			75LE10 n lens		75LE20 m lens		075LE30 om lens		075LE40 om lens			ET-D75LE8 Zoom lens		ET-D75LE50 Fixed-focus	Zoom I Except	enses ET-D75LE6	Fixed- focus
[m] / [ir	n]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	– lens	ET-D75LE6		lens		
1.78/ 7	'0	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/ 8	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/ 9	0	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/ 10	0	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/ 12	20	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/ 15	50	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/ 20	0	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		
6.35/25	50	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/ 30	0	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/ 40	0	30.1	36.1	42.2	54.6	54.1	78.7	78.1	151.7	149.8	239.1	239.0	449.0	40.2	-3.3 – 19.6	-1.6 - 18.0	14.3		
12.70/ 50	0	37.7	45.2	52.9	68.4	67.7	98.5	97.8	189.7	187.4	299.0	299.1	561.5	45.9	-4.1 - 24.5	-2.0 - 22.5	16.3		
15.24/ 60	0	45.3	54.3	63.5	82.1	81.3	118.2	117.4	227.8	224.9	358.9	359.1	674.1	51.7	-4.9 - 29.4	-2.5 - 27.0	18.4		
17.78/ 70	0	52.9	63.4	74.1	95.8	95.0	138.0	137.0	265.8	262.5	418.8	419.2	-	57.5	-5.7 - 34.3	-2.9-31.5	20.4		
20.32/ 80	0	60.4	72.5	84.8	109.6	108.6	157.7	156.6	303.9	300.1	478.7	479.3	-	22.9	-6.5 - 39.2	-3.3 - 36.0	8.2		
22.86/ 90	0	68.0	81.5	95.4	123.3	122.2	177.5	176.3	342.0	337.7	538.7	539.4	-	28.6	-7.4 - 44.1	-3.7 - 40.4	10.2		
25.40/100	0	75.6	90.6	106.0	137.1	135.8	197.3	195.9	380.0	375.2	598.5	599.4	_	34.4	-8.2 - 49.0	-4.1 - 44.9	12.3		

- The value for L (distance to screen) varies slightly within $\pm 5\%$ 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.



Unit: feet



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

ET-D75LE6	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0231 - 0.0566 L (m) = (diagonal screen size in inches) \times 0.0277 - 0.0736
ET-D75LE10	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0324 - 0.0857 L (m) = (diagonal screen size in inches) \times 0.0419 - 0.1085
ET-D75LE20	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0415 - 0.0832 L (m) = (diagonal screen size in inches) \times 0.0602 - 0.1162
ET-D75LE30	minimum maximum	L (m) = (diagonal screen size in inches) × 0.0598 - 0.1131 L (m) = (diagonal screen size in inches) × 0.1160 - 0.1765
ET-D75LE40	minimum maximum	L (m) = (diagonal screen size in inches) × 0.1145 - 0.1577 L (m) = (diagonal screen size in inches) × 0.1826 - 0.1615
ET-D75LE8	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1831 - 0.3862 L (m) = (diagonal screen size in inches) \times 0.3430 - 0.3598
Fixed-focus lens		
ET-D75LE50		L (m) = (diagonal screen size in inches) × 0.0176 - 0.0713

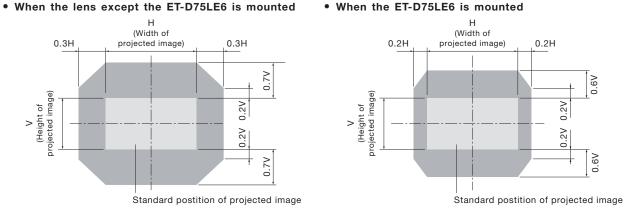
• Distances calculated with the above equations will include slight deviations.



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Shift range

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



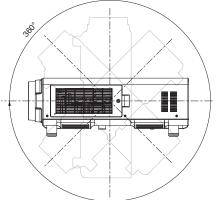
• Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.

Installable angle

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

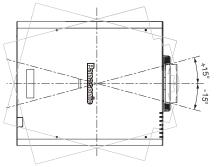
• Vertical direction

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



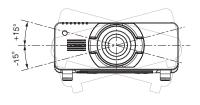
• Vertical direction in portrait mode with the ET-LAD510P/LAD510PF mounted

The projector may be installed at a vertical angle of $\pm 15^{\circ}$.



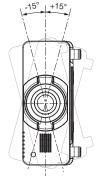
• Horizontal direction

The projector may be installed at a horizontal angle of $\pm 15^{\circ}$.



• Horizontal direction in portrait mode with the ET-LAD510P/LAD510PF mounted

The projector may be installed at a horizontal angle of $\pm 15^{\circ}$.



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

PT-DW17K

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	Scanning fro	equency	Dot clock	Format
	resolution (dots)* ¹	H (kHz)	V (kHz)	frequency (MHz)	
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/
576p (625p)	720 × 576	31.3	50.0	_	RGB/YCBCR
720/60p	1280 × 720	45.0	60.0	74.3	SDI/HDMI/DVI-D/
720/50p		37.5	50.0		RGB/YP _B P _R
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	27.0	48.0	_	
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
1080/50p		56.3	50.0	_	RGB/YPBPR
VGA400	640 × 400	31.5	70.1	25.2	HDMI/DVI-D/RGB
	040 × 400	37.9	85.1	31.5	-
VGA480	640 × 480	31.5	59.9	25.2	-
Van 460	040 × 400	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	-
574A	800 × 800	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	-
XGA	1024 × 700		60.0	65.0	-
		48.4	70.1	75.0	-
		56.5	70.1	78.8	-
		60.0	81.6	86.0	-
		65.5			-
		68.7	85.0	94.5	-
		81.4	100.0	113.3	-
MYOA	4450 001	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	Scanning fr	equency	Dot clock	Format
	resolution (dots)	H (kHz)	V (kHz)	frequency (MHz)	
1280 × 720	1280 × 720	37.1	49.8	60.5	HDMI/DVI-D/RGE
	-	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	-
	-	68.6	84.8	117.5	-
1280 × 800	1280 × 800	41.3	50.0	68.0	-
	-	49.7	59.8	83.5	-
	1280 × 800*	49.3	59.9	71.0	-
	1280 × 800	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	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	-
	-	78.8	72.0	149.3	-
	-	82.2	75.0	155.9	-
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*	66.6	59.9	138.5	_
	1920 × 1080	67.2	60.0	173.0	RGB
WUXGA	1920 × 1200	61.8	49.9	158.3	HDMI/DVI-D/RGE
	1920 × 1200*	74.0	60.0	154.0	-
	1920 × 1200	74.6	59.9	193.3	RGB

* 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

6 9	No.	Signal name	Description	No.	Signal name	Description
69	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
1 5	5	GND	Ground			

D-sub 9-pin (female) Serial input

Pin assignments and signal names

0 0	No.	Signal name	Description	No.	Signal name	Description
9 6	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 1	5	GND	Ground			

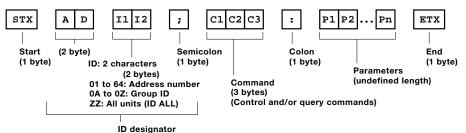
D-sub 9-pin (male) Serial output

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.

As of July 2013



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=+00002		3	VXX:DLVI0=+00002
OTE:4	COLOR TEMPERATURE	User 1	OTE:4
OTE:9		User 2	OTE:9
OTE:10	_	Default	OTE:10
		3200 K – 9300 K (100 K steps)	
OTE: p1p2p3p4	DATE	,	OTE: p1p2p3p4
TSD:y1y2y3y4m1m2d1d2w		Date setting	TSD:y1y2y3y4m1m2d1d2w
TST:h1h2m1m2s1s2		Time setting	TST:h1h2m1m2s1s2
005:0	ON SCREEN	On-screen display off	005:0
005:1		On-screen display on	005:1

* 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	00000h-99999h
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
QРM	Picture mode status	NAT	Natural
		STD	Standard
		 DYN	Dynamic
		CIN	Cinema
		GRA	Graphic
		DIC	DICOM
QVX:DLVI0	System daylight view status	DLVI0=+00000	Off
		DLVI0=+00001	1
		DLVI0=+00002	2
		DLVI0=+00003	3
QPP	P in P status	0	Off
Ϋ́Γ		1	User 1
		2	User 2
		3	User 3
QTM:0	Temperature status	p1p2p3p4/p5p6p7p8 ^{*1}	p0 = Intake air
	. emperatore etatue	5-5-5-5-1, 5-505, 50	p0 = Intake all p1 = Around lamp
OTM:1			
-			n2 — Ontice module
QTM:1 QTM:2 QGD	Date setting status	y1y2y3y4m1m2d1d2w	p2 = Optics module yyyymmdd (day of week

*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.

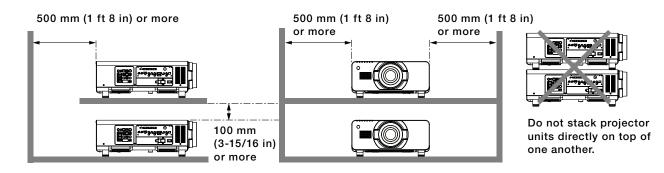


NOTE: When sending commands without parameters, a colon (:) is not necessary.

Notes on projector placement and operation

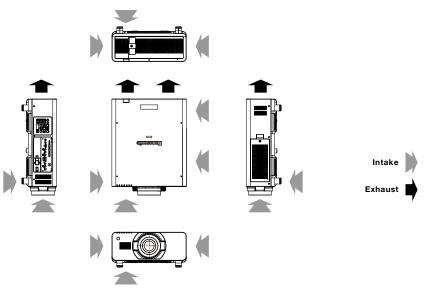
The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

- 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 backup 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.



PT-DW17K

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. Product availability differs depending on region and country. This product may be subject to export control regulations.

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