Panasonic

S P E C   F I L E

Product Number : PT-**DZ16K2**

Product Name : 3-Chip DLP™ Projector

Panasonic

Specifications

Main unit

Power supply		200–240 V AC, 12 A, 50/60 Hz (3-wire single-phase)
Power consumption		2,060 W (2,100 VA) (0.3 W with STANDBY MODE set to ECO.[1] 9 W with STANDBY MODE set to NORMAL.),
		max. 7,031 BTU (without light output: 6,758 BTU)
DLP™ chip	Panel size	24.1 mm (0.95 inches) diagonal (16:9 aspect ratio)
	Display method	DLP™ chip × 3 (R, G, B), DLP™ projection system
	Pixels	2,073,600 (1,920 × 1,080) × 3, total of 6,220,800 pixels
Lens		Optional powered zoom/focus lenses
Lamp		432 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 tele), (1.78-7.62 m(70 - 300 inches) with the ET-D75LE5, 16:9 aspect ratio
Brightness[2]		16,000 lumens (four lamp)
Center-to-corner uniformity[2]		90%
Contrast[2]		10,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution		1,920 × 1,080 pixels (Input signals that exceed this resolution will be converted to 1,920 × 1,080 pixels.)

Scanning frequency   SDI

3G-SDI signal (YPBPR 4:2:2 10-bit):
    SMPTE ST 424 compliant: 1080/50p, 1080/60p,
        (RGB4:4:4 12bit/10bit):
    SMPTE ST 424 compliant: 1080/50i, 1080/60i, 1080/25p, 1080/24p
        1080/24sF, 1080/30p

Single-link HD-SDI signal (YPBPR 4:2:2 10-bit):
    SMPTE ST 292 compliant: 720/50p, 720/60p, 1035/60i, 1080/50i,
    1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p

SD-SDI signal (YCBCR 4:2:2 10-bit):
    SMPTE ST 259 compliant: 480i, 576i

HDMI/DVI-D/ DIGITAL LINK/RGB

Horizontal: 15–100 kHz, vertical: 24–120 Hz,
dot clock: 162MHz or less（HDMI/DVI-D : 25 MHz–162MHz)

YPBPR (YCBCR)

Signal	Frequencies
480i (525i):	f_H 15.73 kHz; f_V 59.94 Hz,
576i (625i):	f_H 15.63 kHz; f_V 50 Hz,
480p (525p):	f_H 31.47 kHz; f_V 59.94 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: 15.73 kHz, f_V: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60]
 f_H: 15.63 kHz, f_V: 50 Hz [PAL/PAL-N/SECAM]

Optical axis shift	Vertical	±60% (±50% with the ET-D75LE6, +75—+88% with the ET-D75LE90) from center of screen, powered
	Horizontal	±20% (±15% with the ET-D75LE6, -12—+14% with the ET-D75LE90) from center of screen, powered

NOTE: Optical axis shift function cannot be operated when used with the ET-D75LE50.

Keystone correction range		Vertical ± 40°, horizontal ± 15° (vertical ±40° and horizontal ±15°with the ET-DLE1/2/10/20, vertical ±22° and horizontal ±15° with the ET-D75LE5/50, vertical ±28° and horizontal ±15° with the ET-D75LE6)
Keystone correction range when using both the Keystone and Curved correction of the Geometric Adjustment function		Vertical ±20°, horizontal ±15° (vertical ±8° and horizontal ±8° with the ET-D75LE5/50, vertical ±10° and horizontal ±10° with the ET-D75LE6
Installation		Ceiling/floor, front/rear
Terminals	SDI IN	BNC × 1, 3G-SDI signal: SMPTE ST 424 compliant Dual-link HD-SDI signal: SMPTE ST 292 compliant SD-SDI signal: SMPTE ST 259 compliant
	HDMI IN	HDMI 19-pin × 1, Deep Color, compatible with HDCP
	DVI-D IN	DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible, for single link only
	DIGITAL LINK/LAN	RJ-45 Network connection / digital link connection (video/network/serial control) compliant with PJLink (class1) ,100base-tx, Art-Net compatible Deep Color, compatible with HDCP
	RGB 1 IN	BNC × 5
	R, G, B	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, P_B, P_R (Y, C_B, C_R)	Y: 1.0 Vp-p (including sync signal), P_B/P_R (C_B/C_R): 0.7 Vp-p, 75 ohms
	S-Video signal	Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms
	RGB 2 IN	D-sub HD 15-pin (female) × 1
	R, G, B	R: 0.7 Vp-p, 75 ohms, 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, P_B, P_R (Y, C_B, C_R)	Y: 1.0 Vp-p (including sync signal), P_B/P_R (C_B/C_R): 0.7 Vp-p, 75 ohms
	SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control
	REMOTE 1 IN	M3 jack × 1 for wired remote control
	REMOTE 1 OUT	M3 jack × 1 for link control
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)

Power cord length	3.0 m (9 ft 10 in)
Cabinet materials	Molded plastic
Dimensions (W × H × D):	620 × 291[*3] × 800[*4] mm
	(24-7/16 × 11-15/32[*3] × 31-1/2[*4] inches) (without lens)
Weight[*5]	Approx. 41 kg (90.4 lbs) (without lens)
Operation noise[*2]	46 dB (quad lamp operation)
Operating temperature	0°–45°C (32°–113°F)[*6]
Operating humidity	10%–80% (no condensation)

Remote control unit

Power supply	3 V DC (AA/R6 type battery × 2)
Operation range[*7]	Approx. 30 m (98 ft 5 in) when operated from directly in front of the signal receptor
Dimensions (W × H × D)	47.5 × 181.5 × 27.5 mm (1-7/8 × 7-5/32 × 1-3/32 inches)
Weight	Approx. 150 g (5.3 oz) (including batteries)

Supplied accessories

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)

Optional accessories

Zoom lens (0.9–1.1:1)	ET-D75LE6
Zoom lens (1.3–1.7:1)	ET-D75LE10
Zoom lens (1.7–2.4:1)	ET-D75LE20
Zoom lens (2.4–4.7:1)	ET-D75LE30
Zoom lens (4.6–7.4:1)	ET-D75LE40
Zoom lens (7.3–13.8:1)	ET-D75LE8
Fixed-focus lens (0.7:1)	ET-D75LE50
Fixed-focus lens (0.36:1)	ET-D75LE90
Lens motor cover	ET-D75MC1
Ceiling mount bracket	ET-PKD520H (for high ceilings)
	ET-PKD520S (for low ceilings)
Projector mount bracket	ET-PKD520B
Frame	ET-PFD510
Smoke cut filter	ET-SFR510
Replacement lamp unit	ET-LAD520 (one bulb)
	ET-LAD520F (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 With legs at shortest position.

*4 Excluding the optional lens.

*5 Average value (excluding the optional lens). May differ depending on models.

*6 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.

*7 Operation range differs depending on environments.

Dimensions
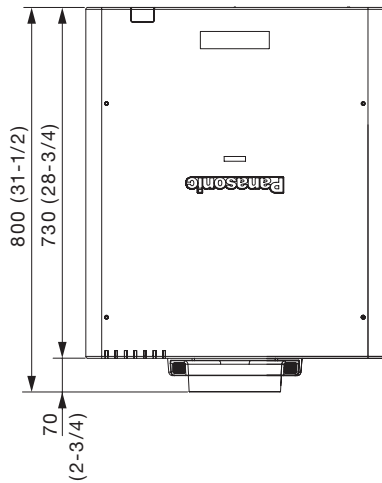
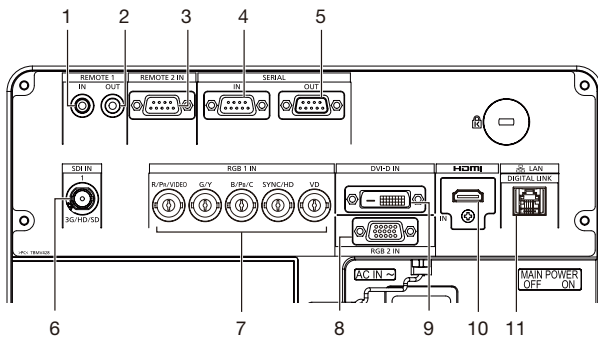
unit : mm (inch)
NOTE: This illustration is not drawn to scale.
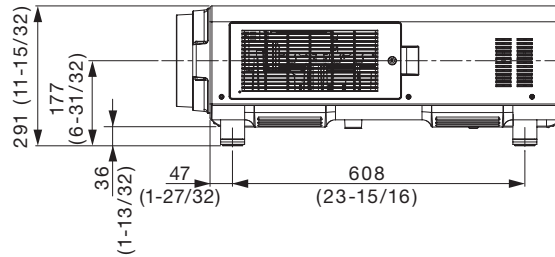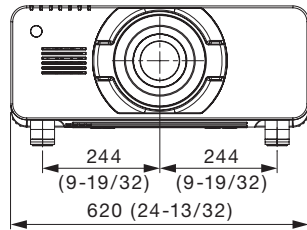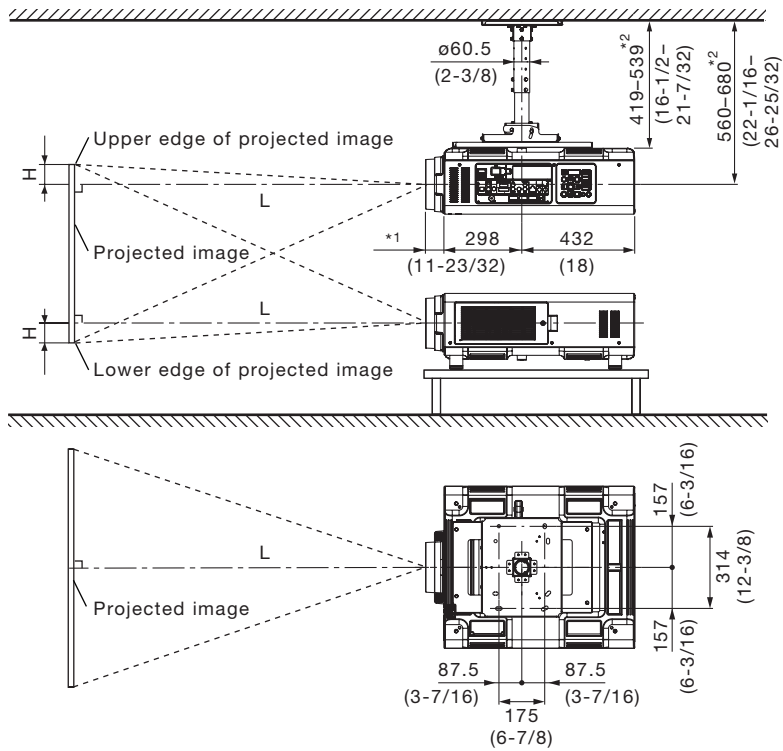
Terminals

1   Remote 1 input

2   Remote 1 output

3   Remote 2 input

4   Serial input

5   Serial output

6   SDI 1 input

7   RGB 1 Input

8   RGB 2 input

9   DVI-D input

10   HDMI input

11   LAN/DIGITAL LINK connector

Standard setting-up position

ø60.5
(2-3/8)

298
(11-23/32)

432
(18)

Upper edge of projected image

H

L

Projected image

*1

H

L

Lower edge of projected image

419–539
(16-1/2–
21-7/32) *2

560–680
(22-1/16–
26-25/32) *2

L

Projected image

157
(6-3/16)

314
(12-3/8)

157
(6-3/16)

87.5
(3-7/16)

87.5
(3-7/16)

175
(6-7/8)

*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-PKD520H/ET-PKD520B 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.

PT-**DZ16K2**

Projection distance for 16:9 aspect ratio screen

(ET-D75LE1/D75LE2/D75LE3/D75LE4/D75LE5)

Unit: meters

Screen size (diagonal) [m] / [in]	Distance to screen (L) ET-D75LE1 Zoom lens min.	max.	ET-D75LE2 Zoom lens min.	max.	ET-D75LE3 Zoom lens min.	max.	ET-D75LE4 Zoom lens min.	max.	Fixed-focus ET-D75LE5 Fixed-focus lens	Height from the edge of screen to center of lens (H) Zoom lenses	Fixed-focus lens
1.78/ 70	2.08	2.79	2.82	4.24	4.25	7.14	7.15	11.45	1.03	-0.09 – 0.96	0.44
2.03/ 80	2.39	3.20	3.23	4.86	4.87	8.18	8.18	13.10	1.19	-0.10 – 1.10	0.50
2.29/ 90	2.70	3.61	3.65	5.48	5.49	9.21	9.22	14.74	1.35	-0.11 – 1.23	0.56
2.54/ 100	3.01	4.02	4.06	6.11	6.12	10.25	10.26	16.39	1.51	-0.12 – 1.37	0.62
3.05/ 120	3.63	4.85	4.89	7.35	7.36	12.33	12.33	19.69	1.82	-0.15 – 1.64	0.75
3.81/ 150	4.55	6.09	6.13	9.21	9.22	15.44	15.44	24.64	2.30	-0.19 – 2.05	0.93
5.08/ 200	6.10	8.15	8.20	12.32	12.33	20.63	20.63	32.89	3.10	-0.25 – 2.74	1.25
6.35/ 250	7.64	10.21	10.27	15.42	15.43	25.81	25.82	41.14	3.89	-0.31 – 3.42	1.56
7.62/ 300	9.18	12.27	12.34	18.53	18.54	31.00	31.01	49.39	4.69	-0.37 – 4.11	1.87
8.89/ 350	10.73	14.33	14.41	21.63	21.64	36.19	36.19	57.63	–	-0.44 – 4.79	2.49
10.16/ 400	12.27	16.40	16.48	24.74	24.75	41.37	41.38	65.88	–	-0.50 – 5.48	3.11
12.70/ 500	15.36	20.52	20.63	30.95	30.96	51.75	51.75	82.38	–	-0.62 – 6.85	3.74
15.24/ 600	18.44	24.64	24.77	37.16	37.17	62.12	62.13	98.87	–	-0.75 – 8.22	4.36
25.40/ 1000	30.79	41.14	41.33	62.01	62.02	103.62	103.62	164.86	–	-1.25 – 13.70	4.98

Unit: feet

Screen size (diagonal) [m] / [in]	Distance to screen (L) ET-D75LE1 Zoom lens min.	max.	ET-D75LE2 Zoom lens min.	max.	ET-D75LE3 Zoom lens min.	max.	ET-D75LE4 Zoom lens min.	max.	Fixed-focus ET-D75LE5 Fixed-focus lens	Height from the edge of screen to center of lens (H) Zoom lenses	Fixed-focus lens
1.78/ 70	6.8	9.1	9.2	13.9	14.0	23.4	23.4	37.6	3.4	-0.3 – 3.1	1.4
2.03/ 80	7.9	10.5	10.6	16.0	16.0	26.8	26.8	43.0	3.9	-0.3 – 3.6	1.6
2.29/ 90	8.9	11.8	12.0	18.0	18.0	30.2	30.3	48.4	4.4	-0.4 – 4.0	1.8
2.54/ 100	9.9	13.2	13.3	20.0	20.1	33.6	33.7	53.8	4.9	-0.4 – 4.5	2.0
3.05/ 120	11.9	15.9	16.0	24.1	24.1	40.4	40.5	64.6	6.0	-0.5 – 5.4	2.5
3.81/ 150	14.9	20.0	20.1	30.2	30.3	50.7	50.7	80.8	7.5	-0.6 – 6.7	3.1
5.08/ 200	20.0	26.7	26.9	40.4	40.4	67.7	67.7	107.9	10.2	-0.8 – 9.0	4.1
6.35/ 250	25.1	33.5	33.7	50.6	50.6	84.7	84.7	135.0	12.8	-1.0 – 11.2	5.1
7.62/ 300	30.1	40.3	40.5	60.8	60.8	101.7	101.7	162.0	15.4	-1.2 – 13.5	6.1
8.89/ 350	35.2	47.0	47.3	71.0	71.0	118.7	118.7	189.1	–	-1.4 – 15.7	8.2
10.16/ 400	40.3	53.8	54.1	81.2	81.2	135.7	135.8	216.1	–	-1.6 – 18.0	10.2
12.70/ 500	50.4	67.3	67.7	101.5	101.6	169.8	169.8	270.3	–	-2.0 – 22.5	12.3
15.24/ 600	60.5	80.9	81.3	121.9	122.0	203.8	203.8	324.4	–	-2.5 – 27.0	14.3
25.40/ 1000	101.0	135.0	135.6	203.4	203.5	339.9	340.0	540.9	–	-4.1 – 44.9	16.3

- **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-D75LE5 is mounted, the optical lens shift function cannot be used.

3-Chip DLP™ Projector

PT-**DZ16K2**

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			
		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	Zoom lenses		Fixed-focus lens
[m] / [in]		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		Except ET-D75LE6	ET-D75LE6	
1.78/	70	1.40	1.67	1.96	2.53	2.53	3.68	3.66	7.14	7.07	11.36	11.16	21.28	1.04	-0.09 − 0.96	0.00 − 0.87	0.44
2.03/	80	1.61	1.92	2.25	2.91	2.91	4.23	4.20	8.19	8.10	13.00	12.81	24.37	1.20	-0.10 − 1.10	0.00 − 1.00	0.50
2.29/	90	1.82	2.17	2.54	3.29	3.28	4.77	4.74	9.23	9.13	14.65	14.46	27.46	1.36	-0.11 − 1.23	0.00 − 1.12	0.56
2.54/	100	2.03	2.42	2.83	3.67	3.65	5.31	5.28	10.28	10.16	16.29	16.11	30.55	1.51	-0.12 − 1.37	0.00 − 1.25	0.62
3.05/	120	2.44	2.92	3.42	4.42	4.40	6.40	6.35	12.37	12.23	19.58	19.41	36.73	1.83	-0.15 − 1.64	0.00 − 1.49	0.75
3.81/	150	3.07	3.67	4.29	5.55	5.52	8.03	7.97	15.50	15.32	24.52	24.36	46.00	2.31	-0.19 − 2.05	0.00 − 1.87	0.93
5.08/	200	4.11	4.92	5.75	7.44	7.39	10.74	10.67	20.73	20.48	32.75	32.61	61.46	3.10	-0.25 − 2.74	0.00 − 2.49	1.25
6.35/	250	5.15	6.17	7.21	9.33	9.26	13.46	13.36	25.96	25.64	40.97	40.86	76.91	3.89	-0.31 − 3.42	0.00 − 3.11	1.56
7.62/	300	6.19	7.41	8.67	11.21	11.13	16.17	16.06	31.18	30.80	49.20	49.11	92.37	4.68	-0.37 − 4.11	0.00 − 3.74	1.87
8.89/	350	7.23	8.66	10.13	13.10	12.99	18.88	18.75	36.41	35.96	57.43	57.35	107.82	5.48	-0.44 − 4.79	0.00 − 4.36	2.49
10.16/	400	8.28	9.91	11.59	14.99	14.86	21.60	21.45	41.64	41.12	65.65	65.60	123.28	6.27	-0.50 − 5.48	0.00 − 4.98	3.11
12.70/	500	10.36	12.40	14.51	18.76	18.60	27.03	26.84	52.09	51.44	82.11	82.10	154.19	7.85	-0.62 − 6.85	0.00 − 6.23	3.74
15.24/	600	12.44	14.90	17.44	22.54	22.33	32.46	32.23	62.54	61.76	98.56	98.60	185.10	9.44	-0.75 − 8.22	0.00 − 7.47	4.36
25.40/	1000	20.77	24.88	29.12	37.63	37.28	54.17	53.79	104.36	103.05	164.38	164.59	−	15.78	-1.25 − 13.70	0.00 − 12.45	4.98

Unit: feet

Screen size (diagonal)		Distance to screen (L)											Height from the edge of screen to center of lens (H)		
		Zoom										Fixed-focus			
		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	Zoom lenses		Fixed-focus lens
[m] / [in]		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		Except ET-D75LE6	ET-D75LE6	
1.78/	70	4.6	5.5	6.4	8.3	8.3	12.1	12.0	23.4	23.2	37.3	36.6	69.8	3.4	-0.3 − 3.1	0.0 − 2.9	1.4
2.03/	80	5.3	6.3	7.4	9.6	9.5	13.9	13.8	26.9	26.6	42.7	42.0	79.9	3.9	-0.3 − 3.6	0.0 − 3.3	1.6
2.29/	90	6.0	7.1	8.3	10.8	10.8	15.6	15.5	30.3	30.0	48.1	47.4	90.1	4.4	-0.4 − 4.0	0.0 − 3.7	1.8
2.54/	100	6.6	7.9	9.3	12.0	12.0	17.4	17.3	33.7	33.3	53.5	52.9	100.2	5.0	-0.4 − 4.5	0.0 − 4.1	2.0
3.05/	120	8.0	9.6	11.2	14.5	14.4	21.0	20.8	40.6	40.1	64.2	63.7	120.5	6.0	-0.5 − 5.4	0.0 − 4.9	2.5
3.81/	150	10.1	12.0	14.1	18.2	18.1	26.3	26.2	50.9	50.3	80.4	79.9	150.9	7.6	-0.6 − 6.7	0.0 − 6.1	3.1
5.08/	200	13.5	16.1	18.9	24.4	24.2	35.2	35.0	68.0	67.2	107.4	107.0	201.6	10.2	-0.8 − 9.0	0.0 − 8.2	4.1
6.35/	250	16.9	20.2	23.7	30.6	30.4	44.1	43.8	85.2	84.1	134.4	134.0	252.3	12.8	-1.0 − 11.2	0.0 − 10.2	5.1
7.62/	300	20.3	24.3	28.5	36.8	36.5	53.1	52.7	102.3	101.1	161.4	161.1	303.1	15.4	-1.2 − 13.5	0.0 − 12.3	6.1
8.89/	350	23.7	28.4	33.3	43.0	42.6	62.0	61.5	119.5	118.0	188.4	188.2	353.8	18.0	-1.4 − 15.7	0.0 − 14.3	8.2
10.16/	400	27.1	32.5	38.0	49.2	48.8	70.9	70.4	136.6	134.9	215.4	215.2	404.5	20.6	-1.6 − 18.0	0.0 − 16.3	10.2
12.70/	500	34.0	40.7	47.6	61.6	61.0	88.7	88.0	170.9	168.8	269.4	269.4	505.9	25.8	-2.0 − 22.5	0.0 − 20.4	12.3
15.24/	600	40.8	48.9	57.2	73.9	73.3	106.5	105.7	205.2	202.6	323.4	323.5	607.3	31.0	-2.5 − 27.0	0.0 − 24.5	14.3
25.40/	1000	68.2	81.6	95.5	123.5	122.3	177.7	176.5	342.4	338.1	539.3	540.0	−	51.8	-4.1 − 44.9	0.0 − 40.9	16.3

- 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-D75LE1	minimum	L (m) = (diagonal screen size in inches) × 0.0309 − 0.0760
	maximum	L (m) = (diagonal screen size in inches) × 0.0412 − 0.1004
ET-D75LE2	minimum	L (m) = (diagonal screen size in inches) × 0.0414 − 0.0795
	maximum	L (m) = (diagonal screen size in inches) × 0.0621 − 0.1064
ET-D75LE3	minimum	L (m) = (diagonal screen size in inches) × 0.0621 − 0.0958
	maximum	L (m) = (diagonal screen size in inches) × 0.1037 − 0.1216
ET-D75LE4	minimum	L (m) = (diagonal screen size in inches) × 0.1037 − 0.1158
	maximum	L (m) = (diagonal screen size in inches) × 0.1650 − 0.1013
ET-D75LE6	minimum	L (m) = (diagonal screen size in inches) × 0.0208 − 0.0566
	maximum	L (m) = (diagonal screen size in inches) × 0.0250 − 0.0736
ET-D75LE10	minimum	L (m) = (diagonal screen size in inches) × 0.0292 − 0.0857
	maximum	L (m) = (diagonal screen size in inches) × 0.0377 − 0.1085
ET-D75LE20	minimum	L (m) = (diagonal screen size in inches) × 0.0374 − 0.0832
	maximum	L (m) = (diagonal screen size in inches) × 0.0543 − 0.1162
ET-D75LE30	minimum	L (m) = (diagonal screen size in inches) × 0.0539 − 0.1131
	maximum	L (m) = (diagonal screen size in inches) × 0.1045 − 0.1765
ET-D75LE40	minimum	L (m) = (diagonal screen size in inches) × 0.1032 − 0.1577
	maximum	L (m) = (diagonal screen size in inches) × 0.1645 − 0.1615
ET-D75LE8	minimum	L (m) = (diagonal screen size in inches) × 0.1650 − 0.3862
	maximum	L (m) = (diagonal screen size in inches) × 0.3091 − 0.3598

Fixed-focus lens

|	
ET-D75LE5	L (m) = (diagonal screen size in inches) × 0.0159 − 0.0835
ET-D75LE50	L (m) = (diagonal screen size in inches) × 0.0159 − 0.0713

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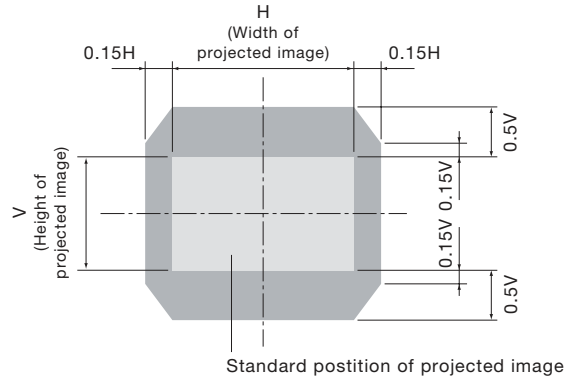
Shift range

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**

Standard postition of projected image

• **When the ET-D75LE6 is mounted**
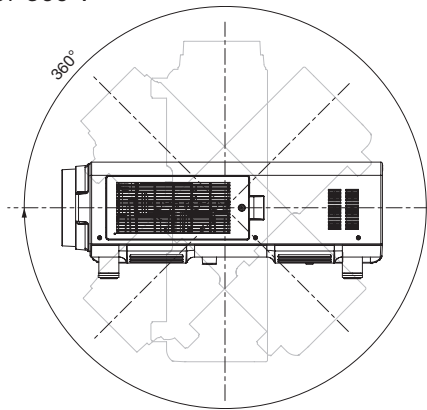

Standard postition of projected image
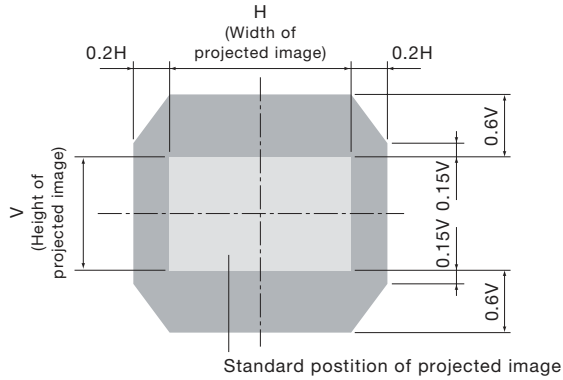
NOTE: Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.

Installable angle

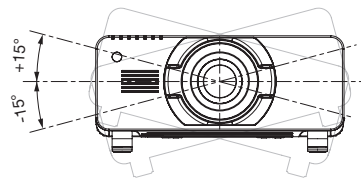Install the projector at an angle within the range shown below.

• **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°.

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 × 1,080 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 H (kHz)	V (kHz)	Dot clock frequency (MHz)	Format
NTSC/NTSC4.43/PAL-M/PAL60	720 × 480i	15.7	59.9	–	VIDEO/ Y/C(RGB1)
PAL/PAL-N/SECAM	720 × 576i	15.6	50.0	–	
480i (525i)	720 × 480i	15.7	59.9	13.5	SDI/RGB1/RGB2
576i (625i)	720 × 576i	15.6	50.0		
480i (525i)	720(1440) × 480i[2]	15.7	59.9	27.0	HDMI/DVI-D
576i (625i)	720(1440) × 576i[2]	15.6	50.0		
480p (525p)	720 × 483	31.5	59.9		HDMI/DVI-D/RGB1/ RGB2
576p (625p)	720 × 576	31.3	50.0		
720/60p	1280 × 720	45.0	60.0	74.3	SDI/HDMI/DVI-D/ RGB1/RGB2
720/50p	1280 × 720	37.5	50.0		
1080/60i[3]	1920 × 1080i	33.8	60.0		
1080/50i	1920 × 1080i	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	1920 × 1080	33.8	30.0		
1080/60p	1920 × 1080	67.5	60.0	148.5	
1080/50p	1920 × 1080	56.3	50.0		
VESA400	640 × 400	31.5	70.1	25.2	HDMI/DVI-D/RGB1/ RGB2
		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	

*1 Pixel-Repetition signal(dot clock frequency 27.0MHz) only.
*2 Pixel-Repetition signal (dot clock frequency 27.0 MHz) only
*3 When 1125(1035)/60i signal input, it displays as 1125(1080)/60i signals.

Display mode	Display resolution (dots)	Scanning frequency H (kHz)	V (kHz)	Dot clock frequency (MHz)	Format
1280 × 720	1280 × 720	37.1	49.8	60.5	HDMI/DVI-D/RGB1 RGB2
		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*3	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*3	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	
1600×900	1600 × 900	46.4	49.9	96.5	
		55.9	60.0	119.0	
UXGA	1600 × 1200	61.8	49.9	131.5	
		75.0	60.0	162.0	
WSXGA+	1680 × 1050	65.3	60.0	146.3	
		54.1	50.0	119.5	
1920×1080	1920 × 1080	55.6	49.9	141.5	
	1920 × 1080*3	66.6	59.9	138.5	
	1920 × 1080*4	67.2	60.0	173.0	RGB1/RGB2
WUXGA	1920 × 1200	61.8	49.9	158.3	HDMI/DVI-D/RGB1/ RGB2
	1920 × 1200*3	74.0	60.0	154.0	
	1920 × 1200 *4	74.6	59.9	193.3	RGB1/RGB2

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

*4 **Image resolution is reduced by the image processing circuit before projection.**