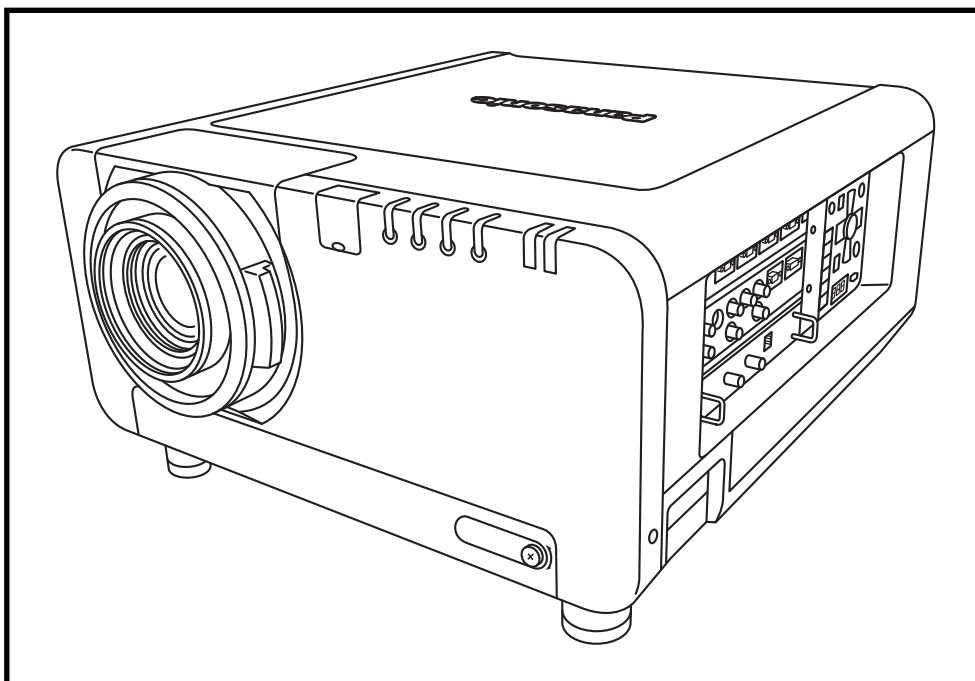


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## S P E C F I L E

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Product Number : **PT-DW10000**

Product Name : 3-Chip DLP™ Projector

**Specifications**

**Main Unit**

Power supply:	North America:	120 V AC, 20 A, 60 Hz
	Europe, Asia	220–240 V AC, 15 A, 50/60 Hz
Power consumption:		1,450 W (25 W in standby mode with fan stopped)
DLP™ chip:	Panel size:	0.95" diagonal (16:9 aspect ratio)
	Display method:	DLP™ chip x 3 (R, G, B), DLP™ projection system
	Pixels:	2,073,600 (1,920 x 1,080) x 3, total of 6,220,800 pixels
Lens:		Optional powered zoom/focus lenses
Lamp:		250W UHM™ lamp x 4
Screen size:		70–600 inches, 16:9 aspect ratio (70–300 inches, 16:9 aspect ratio with the ET-D75LE5)
Brightness*1:		10,000 lumens (four-lamp operation mode)
Center-to-corner uniformity*1:		90%
Contrast*1:		5,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution:	RGB:	1,920 x 1,080 pixels (1,600 x 1,200 pixels compatible, compression mode)
	Video:	560 TV lines
Scanning frequency:	RGB:	Horizontal: 15–100 kHz, Vertical: 24–120 Hz*2, Dot clock: 20–162 MHz
	YPbPr (YCbCr):	480i: fh 15.75 kHz; fv 60 Hz, 576i: fh 15.63 kHz; fv 50 Hz, 480p: fh 31.5 kHz; fv 60 Hz, 576p: fh 31.25 kHz; fv 50 Hz, 720/60p: fh 45 kHz; fv 60 Hz, 720/50p: fh 37.5 kHz; fv 50 Hz, 1035/60i: fh 33.75 kHz; fv 60 Hz, 1080/60i: fh 33.75 kHz; fv 60 Hz, 1080/50i: fh 28.13 kHz; fv 50 Hz, 1080/25p: fh 28.13 kHz; fv 25 Hz, 1080/24p: fh 27 kHz; fv 24 Hz, 1080/24sF: fh 27 kHz; fv 48 Hz, 1080/30p: fh 33.75 kHz; fv 30 Hz, 1080/60p: fh 67.5 kHz; fv 60 Hz, 1080/50p: fh 56.25 kHz; fv 50 Hz
	S-Video/Video:	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz, (NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM)
Optical axis shift*3:		Horizontal and vertical, powered
Keystone correction range:		Vertical: ±40° (±22° with the ET-D75LE5, ±28° with the ET-D75LE6)
Installation:		Ceiling/floor, front/rear
Terminals:	RGB1 IN:	BNC x 5
	Y, Pb, Pr	Y: 1.0 p-p, 75 ohms (incl. sync signal), Pb/Pr: 0.7 Vp-p, 75 ohms
	R, G, B:	0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms
		HD/SYNC: 1.4–5 Vp-p, positive/negative automatic, 75 ohms
		VD: 1.4–5 Vp-p, positive/negative automatic, 75 ohms
		<b>NOTE: HD/SYNC, and VD terminals do not accept 3-value direct sync signals.</b>
	RGB2 IN:	D-sub HD 15-pin x 1
	Y, Pb, Pr	Y: 1.0 p-p, 75 ohms (incl. sync signal), Pb/Pr: 0.7 Vp-p, 75 ohms
	R, G, B:	0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms
		HD/VD/SYNC: TTL, high impedance, positive/negative automatic
		VD: 1.4–5 Vp-p, positive/negative automatic, 75 ohms
		<b>NOTE: HD/SYNC, and VD terminals do not accept 3-value direct sync signals.</b>
	VIDEO IN:	BNC x 1, 1.0 Vp-p
	VIDEO OUT:	BNC x 1, 1.0 Vp-p, active through
	S-VIDEO IN:	Mini DIN 4-pin x 1
		Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms (S1 signal compatible)
	DVI-D IN:	DVI-D 24-pin x 1, DVI 1.0 compliant, HDCP compatible, single link
	LAN:	RJ-45 x 1, 10Base-T/100Base-TX, compatible with PLink™ class 1
	SERIAL IN*4:	D-sub 9-pin x 2 (RS-232C compliant, RS-422 compliant)
	SERIAL OUT*4:	D-sub 9-pin x 1 (RS-422 compliant)
	REMOTE 1 IN:	M3 jack x 1 for wired remote control
	REMOTE 1 OUT:	M3 jack x 1 for link control
	REMOTE 2 IN:	D-sub 9-pin x 1 for external control (parallel)

## Optional board slot\*5:

With ET-MD77SD1 installed:	SERIAL IN:	BNC x 1, 4:2:2 digital serial component signal, SMPTE 259M compliant, 480i, 576i
	SERIAL OUT:	BNC x 1, active through
With ET-MD77SD3 installed:	SERIAL IN:	BNC x 1 4:2:2 digital serial component signal: SMPTE 259M compliant, 480i, 576i HD digital serial component signal: SMPTE 292M compliant, 720/60p, 720/50p, 1035/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p
	SERIAL OUT:	BNC x 1, active through
With ET-MD77DV installed:	DVI-D IN:	DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, single link EDID1: 480p, 576p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 720/60p, 720/50p EDID2: Compatible with non-interlaced signals only, VGA (640 x 480) – U-XGA (1,600 x 1,200), dot clock: 25–162 MHz 578 x 320 x 643 mm (22-3/4" x 12-19/32" x 25-5/16") (without lens)
Dimensions (W x H x D):		578 x 320 x 643 mm (22-3/4" x 12-19/32" x 25-5/16") (without lens)
Weight:		32 kg (70.5 lbs) (without lens)
Operating temperature*6:		0–45°C (32–113°F)
Operating humidity:		10–80% (no condensation)

**Remote Control Unit**

Power supply:	3 V DC (AA battery x 2)
Operation range*7:	Approx. 30 m when operated from directly signal receptor
Dimensions (W x H x D):	51 x 22.7 x 176 mm (2" x 7/8" x 6-15/16")
Weight:	134 g (4.7 oz.) (including batteries)

**Optional Accessories**

Zoom lens (0.9–1.1:1):	ET-D75LE6
Zoom lens (1.4–1.8:1):	ET-D75LE1
Zoom lens (1.8–2.8:1):	ET-D75LE2
Zoom lens (2.8–4.6:1):	ET-D75LE3
Zoom lens (4.6–7.4:1):	ET-D75LE4
Zoom lens (7.3–13.8:1):	ET-D75LE8
Fixed-focus lens (0.7:1):	ET-D75LE5
SD-SDI/network board:	ET-MD77SD1 (480p, 576i)
HD-SDI/SD-SDI/network board:	ET-MD77SD3 (720/60p, 720/50p, 1035/60i, 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p)
DVI-D/network board:	ET-MD77DV
Replacement lamp unit	ET-LAD10000 (one unit) ET-LAD10000F (a set of four lamps)
Ceiling mount bracket for high ceilings	ET-PKD100H
Ceiling mount bracket for low ceilings	ET-PKD100S
Frame	ET-PFD100
Carrying handle	ET-HAD100

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

\*1 Values indicate overall average values of the product at the time of shipment and are stated based on JIS X 6911:2003 Data Projector Specification Sheet Format. Measurement method and conditions are based on Appendix 2.

\*2 Smooth image reproduction may not be possible when a motion video signal with a vertical frequency other than 50 or 60 Hz is input.

\*3 Shift range is limited during simultaneous horizontal and vertical shifting.

\*4 Contact your dealers for details when the control using RS-232C or RS-422 is required.

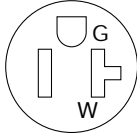
\*5 The LAN terminal on the optional board will be inactivated after installation. Use the LAN terminal on the main unit.

\*6 Operating temperature is 0°C–40°C (32°F–104°F) when the fan control is set to "HIGHLAND" (for over 1,400 m to 2,700 m above sea level).

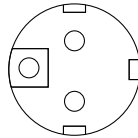
\*7 Operation range differs depending on environments.

Shape of the plug receptacle

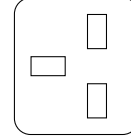
AC 120V AC, 20 A



AC 220-240V AC, 16 A

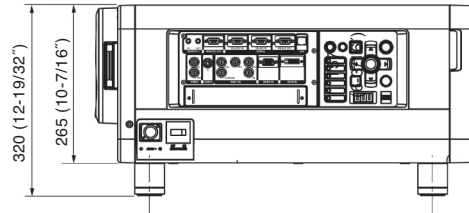
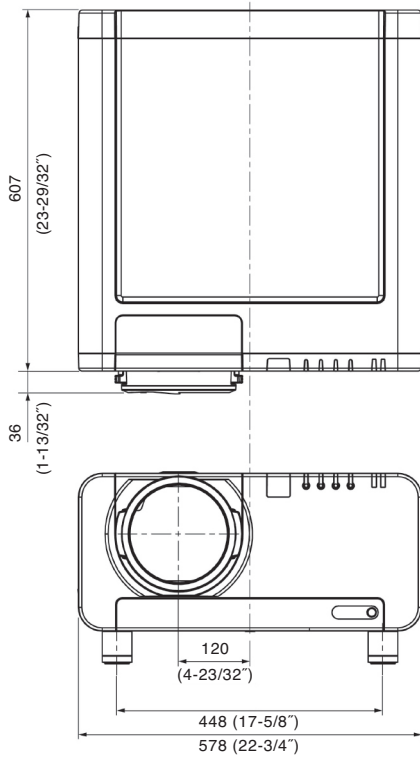


AC 220-240V AC, 13 A/15 A



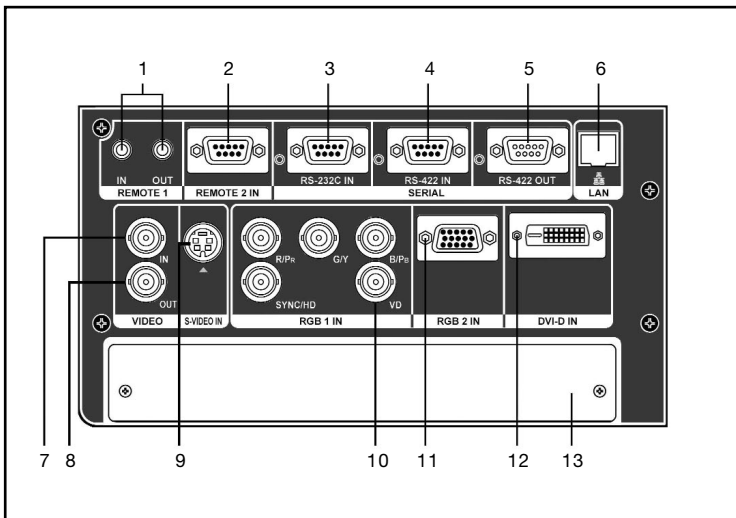
Be sure to use the power plug adaptor cord supplied with the PT-DW7000. The supplied power plug adaptor can be used with the PT-DW7000 only.

Dimensions



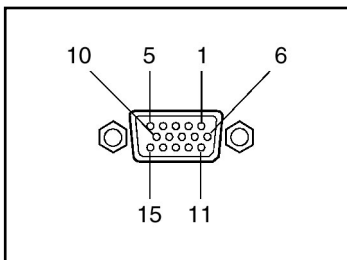
unit : mm (inch)  
NOTE: This illustration is not drawn to scale.

Terminals



- 1 Remote 1 input/output
- 2 Remote 2 input
- 3 Serial input (RS-232C)
- 4 Serial input (RS-422)
- 5 Serial output (RS-422)
- 6 LAN connector (10Base-T/100Base-TX)
- 7 Video input
- 8 Video output
- 9 S-Video input
- 10 RGB 1 (YPbPr) input
- 11 RGB 2 Input
- 12 DVI-D input
- 13 Optional board slot

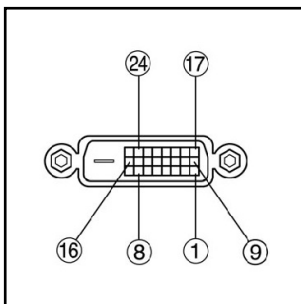
RGB IN connector pin assignment



High-density D-sub 15-pin (female)

no.	signal	no.	signal	no.	signal
1	R/Pr	6	GND	11	GND
2	G/G-SYNC/Y	7	GND	12	NC
3	B/Pb	8	GND	13	HD/SYNC
4	GND	9	NC	14	VD
5	GND	10	GND	15	NC

DVI-D output connector pin assignment

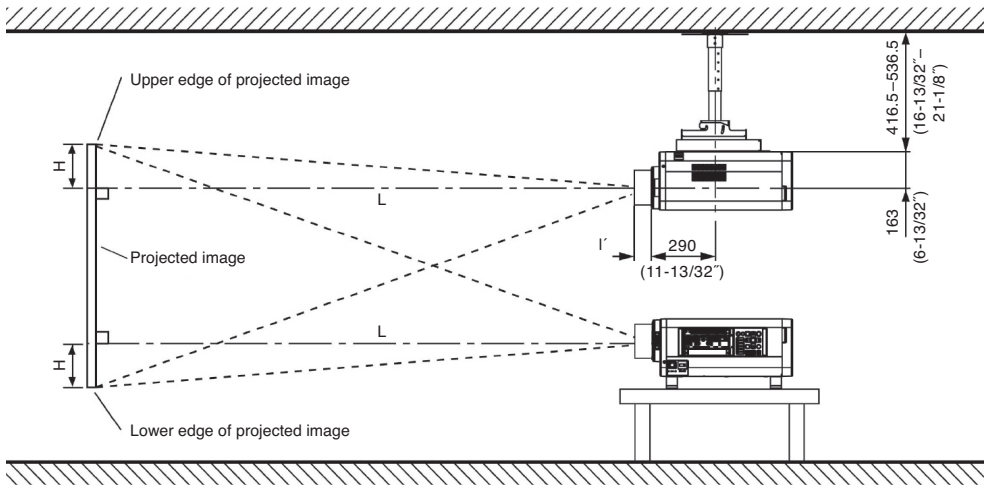


DVI-D 24-pin

no.	signal	no.	signal	no.	signal
1	T, M, D, S data 2-	9	T, M, D, S data 1-	17	T, M, D, S data 0-
2	T, M, D, S data 2+	10	T, M, D, S data 1+	18	T, M, D, S data 0+
3	T, M, D, S data 2/4 shield	11	T, M, D, S data 1/3 shield	19	T, M, D, S data 0/5 shield
4	NC	12	NC	20	NC
5	NC	13	NC	21	NC
6	DDC clock	14	+5 V	22	T, M, D, S clock shield
7	DDC clock	15	GND	23	T, M, D, S clock +
8	NC	16	Hot plug detection	24	T, M, D, S clock -

Standard setting-up positions

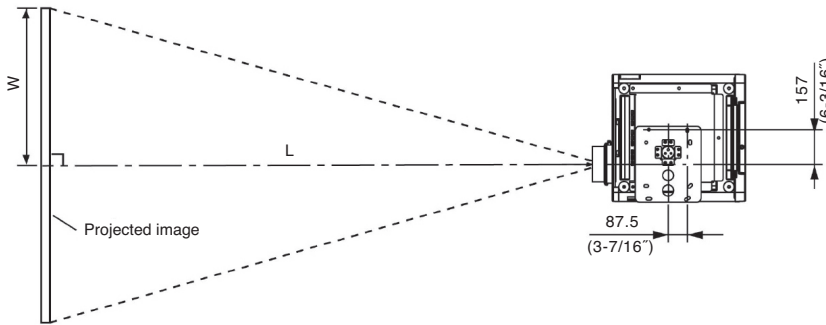
Installed with the ET-PKD100H



When the optional ceiling-mounted bracket (ET-PKD100H) and lens are used, add the  $I'$  value shown below to the 290-mm (11-13/32") measurement from the ceiling-mounted bracket pole to the surface of the lens.

Lens	$I'$
ET-D75LE1	26.5 mm (1-1/32")
ET-D75LE2	11 mm (7/16")
ET-D75LE3	14.5 mm (9/16")
ET-D75LE4	38.4 mm (1-1/2")
ET-D75LE6	124 mm (4-7/8")
ET-D75LE8	166.5 mm (6-9/16")
ET-D75LE5	114.5 mm (4-1/2")

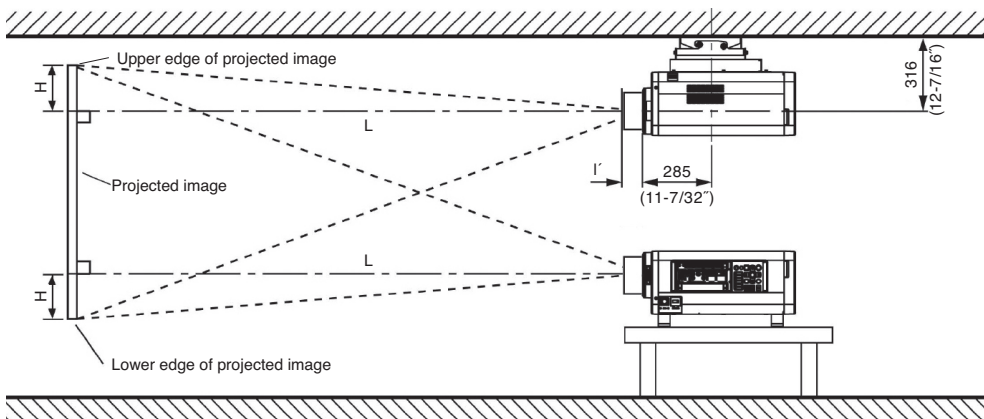
unit : mm (inch)



NOTE:

Illustrations show the projector installed using optional ceiling bracket. This illustration is not drawn to scale.

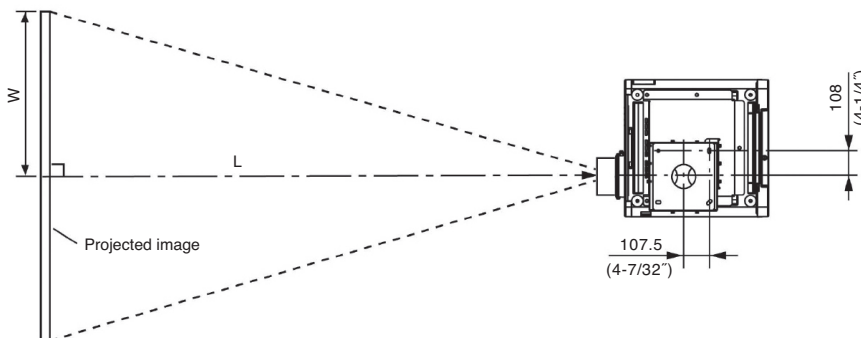
Installed with the ET-PKD100S



When the optional ceiling-mounted bracket (ET-PKD100S) and lens are used, add the  $I'$  value shown below to the 285-mm (11-7/32") measurement from the ceiling-mounted bracket pole to the surface of the lens.

Lens	$I'$
ET-D75LE1	26.5 mm (1-1/32")
ET-D75LE2	11 mm (7/16")
ET-D75LE3	14.5 mm (9/16")
ET-D75LE4	38.4 mm (1-1/2")
ET-D75LE6	124 mm (4-7/8")
ET-D75LE8	166.5 mm (6-9/16")
ET-D75LE5	114.5 mm (4-1/2")

unit : mm (inch)



NOTE:

Illustrations show the projector installed using optional ceiling bracket. This illustration is not drawn to scale.

3-Chip DLP™ Projector

Projection distance (screen aspect ratio 16:9)

Lens (Throw ratio)*	Distance to screen												Height from the edge of screen to center of lens (H)					
	Zoom												Fixed-focus					
	ET-D75LE1 Zoom lens (1.4–1.8:1)		ET-D75LE2 Zoom lens (1.8–2.8:1)		ET-D75LE3 Zoom lens (2.8–4.6:1)		ET-D75LE4 Zoom lens (4.6–7.4:1)		ET-D75LE8 Zoom lens (7.3–13.8:1)		ET-D75LE6 Zoom lens (0.9–1.1:1)		ET-D75LE5 Fixed-focus lens (0.7:1)		Zoom lenses		Fixed-focus lens	
Screen size (inch, diagonal)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	Zoom lenses except ET-D75LE6		ET-D75LE6	
70	2,072 6.8	2,768 9.1	2,801 9.2	4,215 13.8	4,226 13.9	7,094 23.3	7,101 23.3	11,374 37.3	11,091 36.4	21,142 69.4	1,393 4.6	1,662 5.5	1,022 3.35	-87 - 959 -0.29 - 3.15	0 - 872 0 - 2.86	436 1.43		
80	2,379 7.8	3,178 10.4	3,212 10.5	4,832 15.9	4,843 15.9	8,125 26.7	8,132 26.7	13,013 42.7	12,730 41.8	24,214 79.4	1,600 5.2	1,910 6.3	1,180 3.87	-100 - 1,096 -0.33 - 3.60	0 - 996 0 - 3.27	498 1.63		
90	2,686 8.8	3,588 11.8	3,624 11.9	5,449 17.9	5,460 17.9	9,156 30.0	9,163 30.1	14,652 48.1	14,370 47.1	27,286 89.5	1,807 5.9	2,158 7.1	1,338 4.39	-112 - 1,233 -0.37 - 4.05	0 - 1,121 0 - 3.68	560 1.84		
100	2,992 9.8	3,998 13.1	4,035 13.2	6,067 19.9	6,077 19.9	10,187 33.4	10,193 33.4	16,292 53.5	16,009 52.5	30,358 99.6	2,014 6.6	2,406 7.9	1,496 4.91	-125 - 1,370 -0.41 - 4.49	0 - 1,245 0 - 4.08	623 2.25		
120	3,606 11.8	4,817 15.8	4,858 15.9	7,301 24.0	7,312 24.0	12,248 40.2	12,255 40.2	19,570 64.2	19,288 63.3	36,501 119.8	2,428 8.0	2,902 9.5	1,812 5.94	-149 - 1,644 -0.49 - 5.39	0 - 1,494 0 - 4.90	747 2.45		
150	4,526 14.8	6,047 19.8	6,093 20.0	9,153 30.0	9,164 30.0	15,341 50.3	15,348 50.4	24,488 80.3	24,207 79.4	45,717 150.0	3,049 10.0	3,646 12.0	2,286 7.50	-187 - 2,055 -0.61 - 6.74	0 - 1,868 0 - 6.13	934 3.06		
200	6,060 19.9	8,096 26.6	8,150 26.7	12,240 40.2	12,250 40.2	20,496 67.2	20,502 67.3	32,685 107.2	32,404 106.3	61,076 200.4	4,084 13.4	4,886 16.0	3,076 10.09	-249 - 2,740 -0.82 - 8.99	0 - 2,491 0 - 8.17	1,245 4.08		
250	7,594 24.9	10,145 33.3	10,208 33.5	15,326 50.3	15,337 50.3	25,650 84.2	25,657 84.2	40,881 134.1	40,602 133.2	76,435 250.8	5,119 16.8	6,126 20.4	3,866 12.68	-311 - 3,424 -1.02 - 11.23	0 - 3,113 0 - 10.21	1,556 5.11		
300	9,128 29.9	12,194 40.0	12,265 40.2	18,413 60.4	18,423 60.4	30,805 101.1	30,811 101.1	49,078 161.0	48,799 160.1	91,794 301.2	6,154 20.2	7,366 24.2	4,656 15.28	-374 - 4,109 -1.23 - 13.48	0 - 3,736 0 - 12.26	1,868 6.13		
400	12,196 40.0	16,292 53.5	16,380 53.7	24,586 80.7	24,596 80.7	41,114 134.9	41,120 134.9	65,471 214.8	65,194 213.9	122,512 401.9	8,224 27.0	9,846 32.3	-	-498 - 5,479 -1.63 - 17.98	0 - 4,981 0 - 16.34	-		
500	15,264 50.0	20,390 66.9	20,495 67.2	30,759 100.9	30,769 100.9	51,423 168.7	51,429 168.7	81,864 268.6	81,589 267.7	153,230 502.7	10,294 33.8	12,326 40.4	-	-623 - 6,849 -2.04 - 22.47	0 - 6,226 0 - 20.43	-		
600	18,332 60.1	24,488 80.3	24,610 80.7	36,932 121.2	36,942 121.2	61,732 202.5	61,738 202.6	98,257 322.4	97,984 321.5	183,948 603.5	12,364 40.6	14,806 48.6	-	-747 - 8,219 -2.45 - 26.97	0 - 7,472 0 - 24.51	-		

\* The throw ratio is an approximate value calculated by dividing the screen width by the projection distance.  
(Throw ratio) = (screen width) / (projection distance)

millimeters  
feet

Calculation of the projection distance

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

ET-D75LE1	16 : 9	minimum	L (mm) = (diagonal screen size in inches) x 30.68 - 76
		maximum	L (mm) = (diagonal screen size in inches) x 40.98 - 100
ET-D75LE2	16 : 9	minimum	L (mm) = (diagonal screen size in inches) x 41.15 - 80
		maximum	L (mm) = (diagonal screen size in inches) x 61.73 - 106
ET-D75LE3	16 : 9	minimum	L (mm) = (diagonal screen size in inches) x 61.73 - 96
		maximum	L (mm) = (diagonal screen size in inches) x 103.09 - 122
ET-D75LE4	16 : 9	minimum	L (mm) = (diagonal screen size in inches) x 103.09 - 116
		maximum	L (mm) = (diagonal screen size in inches) x 163.93 - 101
ET-D75LE5	16 : 9	(fixed focus)	L (mm) = (diagonal screen size in inches) x 15.798 - 84
ET-D75LE6	16 : 9	minimum	L (mm) = (diagonal screen size in inches) x 20.7 - 56.6
		maximum	L (mm) = (diagonal screen size in inches) x 24.8 - 73.6
ET-D75LE8	16 : 9	minimum	L (mm) = (diagonal screen size in inches) x 163.95 - 386
		maximum	L (mm) = (diagonal screen size in inches) x 307.18 - 360

- The figures in the above table may vary by approximately (5% depending on the projection lens that is used).
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.
- For the ET-D75LE5, the height from the edge of the screen to the center of the lens (H) is 1/2 of the screen height. Also, because the ET-D75LE5 is a fixed short-throw lens, the lens shift function cannot be used with it.

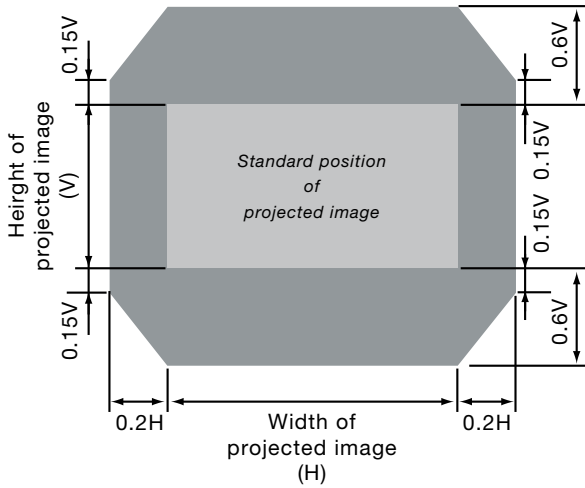
DLP and the DLP logo are trademarks of Texas Instruments. UHM is a trademark of Matsushita Electric.  
All other trademarks are the property of their respective trademark owners.

**Shift range**

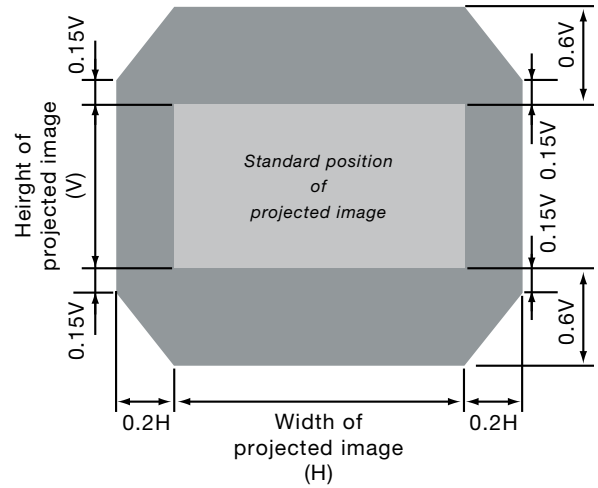
Optical axis shift function allows to shift the position of a projected image as shown below.

**ET-D75LE1/D75LE2/D75LE3/D75LE4/D75LE8**

**When mounted on the floor**

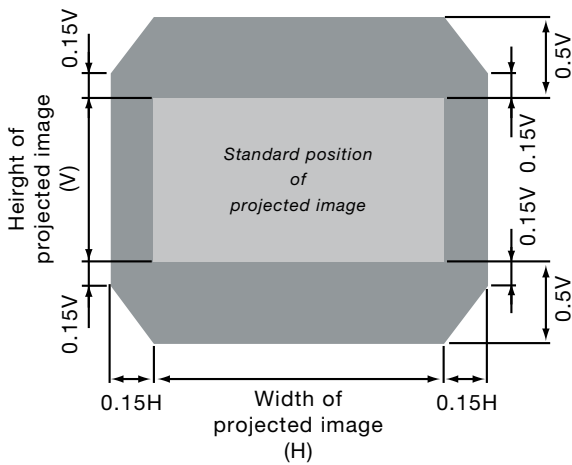


**When mounted on the ceiling**

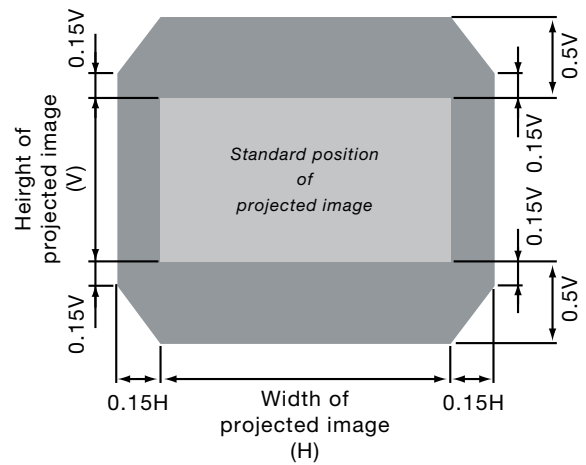


**ET-D75LE6**

**When mounted on the floor**



**When mounted on the ceiling**



**Mounting and Operation Precaution**

Do not mount the projector so that it angles downward from the vertical (including downward angles of  $\pm 45^\circ$ , because this would adversely affect its lamp cooling ability. For detailed information, please consult your sales representative.

