Panasonic ideas for life

Spec File



The PT-DW8300U is not equipped with a lens.

Product Number: PT-DW8300U

Product Name: 3-Chip DLP™ Projector

PT-**DW8300**

Specifications

Main unit

Power supply 120 V AC, 9.0 A, 60 Hz

Power consumption 920 W (970 VA) (0.2 W with STANDBY MODE set to ECO.*1 6 W with

STANDBY MODE set to NORMAL. Both with fan stopped.)

DLP™ chip Panel size 21.6 mm (0.85 inches) diagonal (16:9 aspect ratio)

> Display method DLP™ chip × 3 (R, G, B), DLP™ projection system

 $1,049,088 (1,366 \times 768) \times 3$, total of 3,147,264 pixels Pixels

Lens Optional powered zoom/focus lenses

Lamp 355 W UHM lamps (x 2) (dual 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 9,600 lumens (dual lamp, high mode)

Center-to-corner uniformity*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

converted to 1,366 × 768 pixels.)

Scanning frequency HDMI/DVI-D/RGB Horizontal: 15-100 kHz, vertical: 24-120 Hz,

dot clock: 162 MHz or lower

YPBPR (YCBCR) 480i (525i): fH 15.75 kHz; fv 60 Hz,

> 576i (625i): fн 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, 1080/25p: fH 28.13 kHz; fv 25 Hz, 1080/24p: fH 27.00 kHz; fv 24 Hz, 1080/24sF: fH 27.00 kHz; fv 48 Hz,

1080/30p: fн 33.75 kHz; fv 30 Hz, 1080/60p: fH 67.50 kHz; fv 60 Hz, 1080/50p: fн 56.25 kHz; fv 50 Hz

Video/S-Video fh: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60]

fh: 15.63 kHz, fv: 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

Keystone correction range Vertical: ±40° (±22° with the ET-D75LE50, ±28° with the ET-D75LE6)

Installation Ceiling/floor, front/rear

PT-**DW830**(

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					
		(non-interlaced signals only),					

VGA $(640 \times 480) - WUXGA^{*3} (1,920 \times 1,200)$,

dot clock: 25-162 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 $(640 \times 480) - WUXGA^{*3} (1,920 \times 1,200)$,

dot clock: 25-162 MHz

NOTE: Compatible with non-interlaced signals only.

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, PB, PR (Y, CB, CR)

R. G. B

Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms

RGB 2 IN D-sub HD 15-pin (female) x 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) Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms

VIDEO IN

BNC × 1, 1.0 Vp-p, 75 ohms

S-VIDEO IN Mini DIN 4-pin × 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms SERIAL IN D-sub 9-pin × 1 external control (RS-232C compliant)

SERIAL OUT D-sub 9-pin × 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)

RJ-45 × 1 for network connection, 100Base-TX/10Base-T, compliant LAN

> with PJLink™ (class 1) 3.0 m (9 ft 10 in) Molded plastic

Dimensions (W \times H \times D): $530 \times 200^{*4} \times 548.5^{*5}$ mm

 $(20-7/8 \times 7-7/8^{*4} \times 21-19/32^{*5} \text{ inches})$ (without lens)

Weight*6 Approx. 24 kg (52.9 lbs) (without lens)

0-45 °C (32-113 °F)*7 Operating temperature Operating humidity 10%-80% (no condensation)

Remote control unit

Power cord length

Cabinet materials

3 V DC (AA type battery × 2) Power supply

Operation range*8 Approx. 30 m (98 ft 5 in) when operated from directly in front of the

signal receptor

Dimensions (W \times H \times D) $51 \times 176 \times 28 \text{ mm} (2 \times 6-15/16 \times 1-3/32 \text{ inches})$ Weight Approx. 134 g (4.7 oz) (including batteries)

PT-**DW8300**

Supplied accessories

Power cord with security lock (x 1) Wireless/wired remote control unit (x 1) Batteries for remote control (AA type × 2)

Drop-prevention bracket (x 2)

Optional accessories

ET-D75LE6 Zoom lens (1.0-1.2:1) ET-D75LE10 Zoom lens (1.4-1.9:1) Zoom lens (1.8-2.7:1) ET-D75LE20 Zoom lens (2.7-5.2:1) ET-D75LE30 ET-D75LE40 Zoom lens (5.1-8.2:1) 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-PKD310H (for high ceilings) ET-PKD310S (for low ceilings)

Attachment for ceiling mount bracket ET-PAD310 Frame ET-PFD310 ET-SFD310 Smoke cut filter

Replacement lamp unit ET-LAD310 (one bulb)

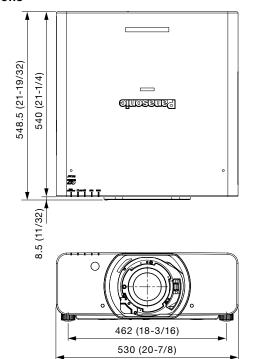
ET-LAD310W (a set of two bulbs)

Replacement filter unit ET-ACF310

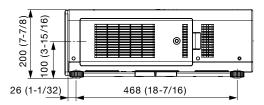
Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice.

- *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 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).
- *4 With legs at shortest position.
- *5 Excluding the optional lens.
- *6 Average value (excluding the optional lens). May differ depending on models.
- *7 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when used in High-Altitude mode (1,400 m to 2,700 m (4,593 ft to 8,858 ft)).
- *8 Operation range differs depending on environments.

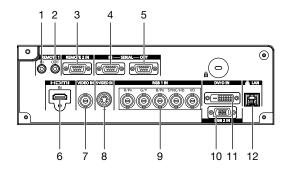
Dimensions



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



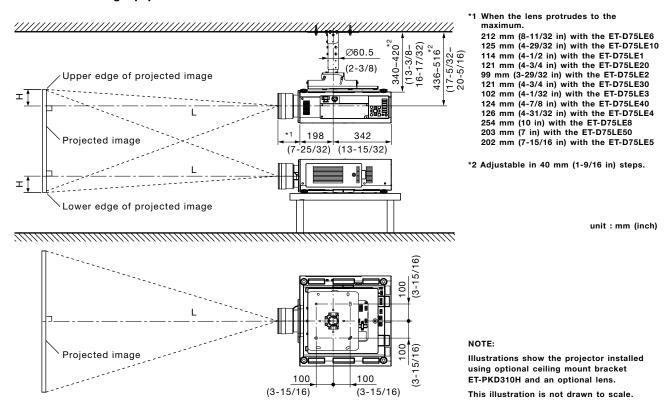
Terminals



- Remote 1 input
- Remote 1 output
- Remote 2 input
- Serial input
- Serial output 5
- HDMI input
- Video input
- S-Video input
- RGB 1 input
- 10 RGB 2 Input
- 11 DVI-D input
- 12 LAN connector

PT-**DW8300**U

Standard setting-up position



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-**DW8300**U

Projection distance for 16:9 aspect ratio screen

(ET-D75LE6/D75LE10/D75LE20/D75LE30/D75LE40/D75LE8/D75LE50)

meters

Screen size		Distance to screen (L)										Height from the edge of scre to center of lens (H)				
(diagonal)						Z	oom						Fixed-focus	Zo		/ Fixed-
	ET-D	75LE6	ET-D7	75LE10	ET-D	75LE20	ET-0	75LE30	ET-0	75LE40	ET-D	75LE8	ET-D75LE50	Except	ET-D75LE6	focus
[m] / [in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	Fixed-focus	ET-D75LE6	ET-D73EE0	
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						Distance	to scree	en (L)						Height from the edge of screen to center of lens (H)		
(diagonal)						Z	oom						Fixed-focus	Zoo	,	 Fixed-
	ET-D7	'5LE6	ET-D7	5LE10	ET-D	75LE20	ET-0	D75LE30	ET-0	75LE40	ET-D	75LE8	ET-D75LE50	Except	ET-D75LE6	focus
[m] / [in]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	Fixed-focus	ET-D75LE6	LI-D/JLL0	
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 - 3.2	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 - 4.1	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.

PT-**DW8300**

Projection distance for 16:9 aspect ratio screen

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

										ι	Jnit: meters
Screen size					Distance	to screen	(L)			Height from the edge	
(diagonal)				Z	oom				Fixed-focus	of screen t of lens	
	ET-D	75LE1	ET-D	75LE2	ET-D	75LE3	ET-D	75LE4	ET-D75LE5		
[m] / [in]	min.	max.	min.	max.	min.	max.	min.	max.		Zoom	Fixed-focus
1.78 / 70	2.32	3.10	3.14	4.72	4.73	7.94	7.94	12.71	1.15	-0.17 – 1.05	0.44
2.03 / 80	2.66	3.56	3.60	5.41	5.42	9.09	9.09	14.54	1.33	-0.20 - 1.20	0.50
2.29 / 90	3.01	4.02	4.06	6.10	6.11	10.24	10.25	16.38	1.50	-0.22 – 1.35	0.56
2.54/100	3.35	4.48	4.52	6.79	6.80	11.39	11.40	18.21	1.68	-0.25 – 1.49	0.62
3.05/120	4.04	5.39	5.44	8.17	8.18	13.69	13.70	21.87	2.03	-0.30 – 1.79	0.75
3.81 / 150	5.06	6.77	6.81	10.23	10.24	17.15	17.15	27.36	2.56	-0.37 - 2.24	0.93
5.08/200	6.78	9.05	9.11	13.68	13.69	22.90	22.91	36.51	3.45	-0.50 - 2.99	1.25
6.35/250	8.49	11.34	11.41	17.13	17.14	28.66	28.67	45.67	4.33	-0.62 - 3.74	1.56
7.62/300	10.20	13.63	13.71	20.57	20.58	34.42	34.42	54.82	5.21	-0.75 – 4.48	1.87
10.16 / 400	13.63	18.21	18.30	27.47	27.48	45.93	45.93	73.13		-1.00 – 5.98	-
12.70/500	17.05	22.78	22.90	34.36	34.37	57.44	57.45	91.43		-1.25 – 7.47	
15.24/600	20.48	27.36	27.49	41.25	41.26	68.95	68.96	109.74	_	-1.49 – 8.97	_

Unit: feet

Screen size					istance t	to screen	(L)			Height from the edge	
(diagonal)				Z	oom	Fixed-focus	of screen to center of lens (H)				
	ET-D7	'5LE1	ET-D	75LE2	ET-D	75LE3	ET-D	75LE4	ET-D75LE5		
[m] / [in]	min.	max.	min.	max.	min.	max.	min.	max.		Zoom	Fixed-focus
1.78 / 70	7.6	10.2	10.3	15.5	15.5	26.0	26.1	41.7	3.8	-0.6 - 3.4	1.4
2.03 / 80	8.7	11.7	11.8	17.7	17.8	29.8	29.8	47.7	4.4	-0.7 - 3.9	1.6
2.29 / 90	9.9	13.2	13.3	20.0	20.0	33.6	33.6	53.7	4.9	-0.7 - 4.4	1.8
2.54 / 100	11.0	14.7	14.8	22.3	22.3	37.4	37.4	59.7	5.5	-0.8 - 4.9	2.0
3.05 / 120	13.2	17.7	17.8	26.8	26.8	44.9	44.9	71.7	6.7	-1.0 - 5.9	2.5
3.81 / 150	16.6	22.2	22.4	33.6	33.6	56.3	56.3	89.8	8.4	-1.2 - 7.4	3.1
5.08/200	22.2	29.7	29.9	44.9	44.9	75.1	75.2	119.8	11.3	-1.6 - 9.8	4.1
6.35/250	27.8	37.2	37.4	56.2	56.2	94.0	94.0	149.8	14.2	-2.0 – 12.3	5.1
7.62/300	33.5	44.7	45.0	67.5	67.5	112.9	112.9	179.9	17.1	-2.5 – 14.7	6.1
10.16 / 400	44.7	59.7	60.0	90.1	90.1	150.7	150.7	239.9	-	-3.3 – 19.6	_
12.70/500	55.9	74.7	75.1	112.7	112.8	188.5	188.5	300.0	-	-4.1 – 24.5	_
15.24/600	67.2	89.8	90.2	135.3	135.4	226.2	226.2	360.0	-	-4.9 – 29.4	_

- 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.

PT-**DW8300**U

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 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-D75LE1	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0343 - 0.0760 L (m) = (diagonal screen size in inches) \times 0.0458 - 0.1004
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-D75LE2	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0460 - 0.0795 L (m) = (diagonal screen size in inches) \times 0.0689 - 0.1064
ET-D75LE30	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0598 - 0.1131 L (m) = (diagonal screen size in inches) \times 0.1160 - 0.1765
ET-D75LE3	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.0689 - 0.0958 L (m) = (diagonal screen size in inches) \times 0.1151 - 0.1216
ET-D75LE40	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1145 - 0.1577 L (m) = (diagonal screen size in inches) \times 0.1826 - 0.1615
ET-D75LE4	minimum maximum	L (m) = (diagonal screen size in inches) \times 0.1151 - 0.1158 L (m) = (diagonal screen size in inches) \times 0.1831 - 0.1013
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

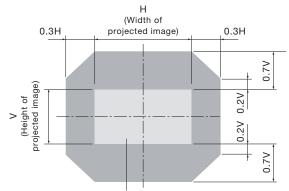
ET-D75LE50	$_{-}$ (m) = (diagonal screen size in inches) \times 0).0176 – 0.0713
ET-D75LE5	$_{-}$ (m) = (diagonal screen size in inches) \times 0).0176 - 0.0835

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

Shift range

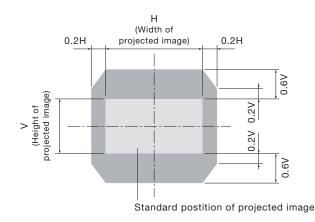
Optical axis shift function allows to shift the position of a projected image as shown below.

• When the lens except the ET-D75LE6 is mounted



Standard postition of projected image

• When the ET-D75LE6 is mounted



• Because the ET-D75LE50 and ET-D75LE5 are fixed short-throw lenses, the lens shift function cannot be used with it.

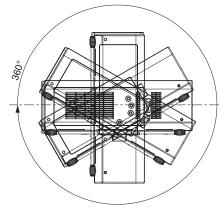
Installable angle

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

• Vertical direction

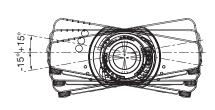
SFD10M003-3

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



Horizontal direction

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



PT-**DW8300**

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	Scanning fr	· V	Dot clock frequency	Format
	(dots) ¹	(kHz)	(kHz)	(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/YP _B P _R
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	27.0	RGB/YPBPR
720/60p	1280 × 720	45.0	60.0	74.3	_
720/50p	1280 × 720	37.5	50.0	74.3	_
1080/60i	1920 × 1080i	33.8	60.0	74.3	
1080/50i	1920 × 1080i	28.1	50.0	74.3	
1080/24p	1920 × 1080	27.0	24.0	74.3	
1080/24sF	1920 × 1080i	27.0	24.0	74.3	-
1080/25p	1920 × 1080	28.1	50.0	74.3	-
1080/30p		33.8	60.0	74.3	-
1080/60p		67.5	60.0	148.5	-
1080/50p		56.3	50.0	148.5	-
VGA400	640 × 400	31.5	70.1	25.2	HDMI/DVI-D/RG
		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	-
	.02	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	-
		80.0	100.0	105.0	-
		96.7	120.0	130.0	-
MXGA	1152 × 864	53.7	60.0	81.6	-
······································	1102 ^ 007	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	-
1280 × 700	1280 × 700	37.1	49.8	60.5	-
1200 ^ 700	1200 X / UU		59.9	74.5	-
1280 × 768	1000 760	44.8			-
1200 × 700	1280 × 768	39.6	49.9	65.3	-
=	1280 × 768 ²	47.8	59.9	79.5	-
	17811 > 7685	47.4	60.0	68.3	
-	1280 × 768	60.3	74.9	102.3	=

The "i" appearing after the resolution indicates an interlaced signal.
 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

PT-**DW8300**U

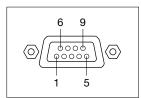
Display mode	Display	Scanning fre	quency	Dot clock	Format	
	resolution	Н	V	frequency		
	(dots) ¹	(kHz)	(kHz)	(MHz)		
1280 × 800	1280 x 800	41.3	50.0	68.0	HDMI/DVI-D/RGE	
		49.7	59.8	83.5	_	
	1280 x 800 ²	49.3	59.9	71.0		
	1280 x 800	62.8	74.9	106.5		
		71.6	84.9	122.5		
MSXGA	1280 x 960	60.0	60.0	108.0	-	
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	1280 × 768	47.7	59.8	84.8	-	
	-	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 ²	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/RG	
	1920 × 1200 ²	74.0	60.0	154.0	-	
	1920 × 1200	74.6	59.9	193.3	RGB	

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

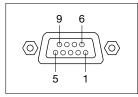
Pin assignments and signal names



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			

D-sub 9-pin (female) Serial input

Pin assignments and signal names



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			

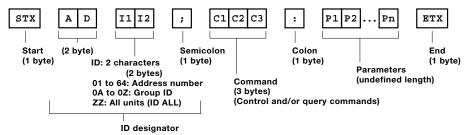
D-sub 9-pin (male) Serial output

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.

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Cable specifications

	Projector		PC (DTE)
	1	NC NC	1
	2		2
	3		3
	4	NC NC	4
	5		- 5
	6	NC NC	6
г	7		7
L	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:SDI	INPUT SELECT	SDI	IIS:SDI
IIS:HD1		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
IIS:SVD		S-Video	IIS:SVD
LPM:0	LAMP SELECT	Dual (two lamps)	LPM:0
LPM:1	_	Single (one lamp)	LPM:1
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 2	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	008:0
00S:1		On-screen display on	00S: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 during standby mode is sent, the projector will send an ER401 command in reply.

Status request commands

Command:Parameter	Function	Callback	Description
QPW	Main power status	0 0 0	Standby (Off)
		001	On
QSH	Shutter function status	0	Off
		1	On
QFZ	Freeze function status	0	Off
		1	On
QIN	Input signal status	SDI	SDI
		HD1	HDMI
		DVI	DVI
		RG1	RGB 1
		RG2	RGB 2
		VID	Video
		SVD	S-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
QSL	Lamp operation mode status	0	Dual (two lamps)
		1	Single (one lamp)
QLP	Lamp power mode status	0	High
		1	Low
QPM	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
		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
- $\star 3$ Set the date and time to UTC (universal time coordinated).

Command example

To set the on-screen display off, send the command as shown below.

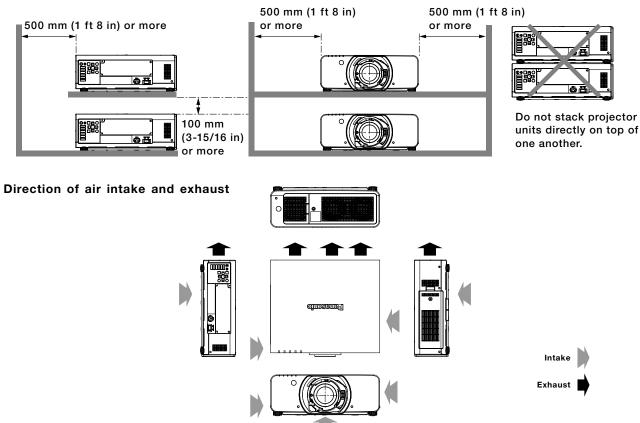


NOTE: When sending commands without parameters, a colon (:) is not necessary.

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, or may shorten the replacement cycle for the Auto Cleaning Filter (ACF) Unit.
- 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, or may shorten the replacement cycle for the ACF Unit. 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: 8 mm (5/16 inches)). Provide a space of 5 to 10 mm (3/16 to 13/32 inches) between the projector and the mounting surface by inserting metal spacers.



Operating the projector continuously

- If the projector is to be operated continuously 24 hours a day, use the dual-lamp optical system's alternating lamp operation (lamp relay) function. The projector cannot be operated continuously 24 hours a day in dual-lamp mode. Allow a minimum of two hours per day of non-operation time for each lamp if the projector is to be operated continuously for more than 22 hours.
- 2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

Replacing the filter unit

The projector is equipped with the Auto Cleaning Filter (ACF) function, which automatically winds the air filter to set a new filter element in place according to operating conditions. The filter unit replacement cycle is approximately 10,000 hours*. Please purchase the ET-ACF310 filter unit for replacement

* The replacement cycle given here is a guideline. It may differ depending on the usage environment.

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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