Panasonic

SPEC FILE

Product Number : PT-**DW830K**/**DW830W**
PT-**DW830LK**/**DW830LW**

Product Name : DLP™ Projectors

DLP™ Projectors

PT-DW830K/DW830W/DW830LK/DW830LW

Specifications

Main unit

Power supply		120–240 V AC, 10–5.2 A, 50/60 Hz
Power consumption	120–240 V AC, 50/60 Hz	1,030 W (1,060 VA) (0.3 W with STANDBY MODE set to ECO*1, 3 W with STANDBY MODE set to NORMAL)
DLP™ chip	Panel size	16.5 mm (0.65 in) diagonal (16:10 aspect ratio)
	Display method	DLP™ chip × 1, DLP™ system
	Pixels	1,024,000 (1,280 × 800) × 1, total of 1,024,000 pixels
Lens	PT-DW830K/DW830W	Powered zoom/focus lenses (1.8–2.5:1), F 1.7–1.9, f 25.6–35.7 mm
	PT-DW830LK/DW830LW	Optional powered zoom/focus lenses and fixed-focus lens
Lamp		420 W UHM lamps (× 2)
Screen size		1.27–15.24 m (50–600 inches) (1.27–5.08 m (50–200 inches) with the ET-DLE055), 16:10 aspect ratio
Brightness*2		8,500 lumens (dual lamp, LAMP MODE: NORMAL)
Center-to-corner uniformity*2		90%
Contrast*2		10,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution		1,280 × 800 pixels (Input signals that exceed this resolution will be converted to 1,280 × 800 pixels.)
Scanning frequency	HDMI/DVI-D	fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 25–162 MHz
	RGB	fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 162 MHz or lower
	YPBPR (YCBCR)	525i (480i): fH 15.75 kHz; fV 60 Hz, 625i (576i): fH 15.63 kHz; fV 50 Hz, 525p (480p): fH 31.50 kHz; fV 60 Hz, 625p (576p): fH 31.25 kHz; fV 50 Hz, 750 (720)/60p: fH 45.00 kHz; fV 60 Hz, 750 (720)/50p: fH 37.50 kHz; fV 50 Hz, 1125 (1035)/60i: fH 33.75 kHz; fV 60 Hz, 1125 (1080)/60i: fH 33.75 kHz; fV 60 Hz, 1125 (1080)/50i: fH 28.13 kHz; fV 50 Hz, 1125 (1080)/25p: fH 28.13 kHz; fV 25 Hz, 1125 (1080)/24p: fH 27.00 kHz; fV 24 Hz, 1125 (1080)/24sF: fH 27.00 kHz; fV 48 Hz, 1125 (1080)/30p: fH 33.75 kHz; fV 30 Hz, 1125 (1080)/60p: fH 67.50 kHz; fV 60 Hz, 1125 (1080)/50p: fH 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: +60% (powered), horizontal: ±10% (powered) **NOTE: Optical axis shift function cannot be operated when used with the ET-DLE055.**
Keystone correction range		Vertical ±40° (±30° with the ET-DLE085/ET-DLE055)
Installation		Ceiling/floor, front/rear
Terminals	HDMI IN	HDMI 19-pin × 1, Deep Color, compatible with HDCP, 525i(480i)*3, 625i(576i)*3, 525p(480p), 625p(576p), 750(720)/60p, 750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p VGA (640 × 480) – WUXGA*4 (1,920 × 1,200), dot clock: 25 MHz–162 MHz **NOTE: Compatible with non-interlaced signals only.**
	DVI-D IN	DVI-D 24-pin × 1, DVI 1.0 compliant, HDCP compatible, for single link only 525i(480i)*3, 625i(576i)*3, 525p(480p), 625p(576p), 750(720)/60p, 750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p VGA (640 × 480) – WUXGA*4 (1,920 × 1,200), dot clock: 25 MHz–162 MHz **NOTE: Compatible with non-interlaced signals only.**

	RGB 1 IN	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)	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 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, PB, PR (Y, CB, CR)	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
	3D SYNC 1 IN/OUT	BNC × 1, 1.0 Vp-p, 75 ohms Input: TTL, high impedance. Output: TTL, max. 10 mA
	3D SYNC 2 OUT	BNC × 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA
	VIDEO IN	BNC × 1, 1.0 Vp-p, 75 ohms
	SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control (RS-232C compliant)
	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)
	LAN/DIGITAL LINK	RJ-45 × 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PJLink™ (class 1), Deep Color, compatible with HDCP, 525i(480i)*3, 625i(576i)*3, 525p(480p), 625p(576p), 750(720)/60p, 750(720)50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p VGA (640 × 480) – WUXGA*3 (1,920 × 1,200), dot clock: 25 MHz – 162 MHz **NOTE: Compatible with non-interlaced signals only.**
Power cord length		3.0 m (9 ft 10 in)
Cabinet materials		Molded plastic
Dimensions (W × H × D)	PT-DW830K/DW830W	498 × 200*5 × 556 mm (19-19/32 × 7-7/8*5 × 21-7/8 inches) (with supplied lens)
	PT-DW830LK/DW830LW	498 × 200*5 × 513 mm (19-19/32 × 7-7/8*5 × 20-3/16 inches) (without lens)
Weight*6	PT-DW830K/DW830W	Approx. 18.3 kg (40.3 lbs) (with supplied lens)
	PT-DW830LK/DW830LW	Approx. 17.6 kg (38.8 lbs) (without lens)
Operation noise*2		40 dB (dual lamp operation, LAMP MODE: NORMAL), 35 dB (dual lamp operation, LAMP MODE: ECO)
Operating temperature		0 – 45 °C (32 – 113 °F)*7
Operating humidity		10% – 80% (no condensation)

Remote control unit

Power supply	3 V DC (AAA type battery × 2)
Operation range*8	Approx. 30 m (98 ft 5 in) when operated from directly in front of the signal receptor
Dimensions (W × H × D)	48 × 145 × 27 mm (1-28/32 × 5-23/32 × 1-1/16 inches)
Weight	Approx. 102 g (3.6 oz) (including batteries)

Supplied accessories

Power cord (× 1) (× 2 for PT-DZ870EK/DZ870EW/DZ870ELK/DZ870ELW)
Wireless/wired remote control unit (× 1)
Batteries for remote control (AAA type × 2)
Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)

Optional accessories

Digital interface box	ET-YFB100G
Zoom lens (0.8–1.0:1)	ET-DLE085
Zoom lens (1.4–2.0:1)	ET-DLE150
Zoom lens (2.4–3.8:1)	ET-DLE250
Zoom lens (3.8–5.7:1)	ET-DLE350
Zoom lens (5.6–9.0:1)	ET-DLE450
Fixed-focus lens (0.8:1)	ET-DLE055
Ceiling mount bracket	ET-PKD120H (for high ceilings) ET-PKD120S (for low ceilings)
Attachment for ceiling mount bracket	ET-PKD120B
Smoke cut filter	ET-SFD120
Replacement lamp unit for portrait mode	ET-LAD120P ET-LAD120PW (Twin Pack)
Replacement lamp unit	ET-LAD120 ET-LAD120W (Twin Pack)

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 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)**

***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 Average value. May differ depending on models.**

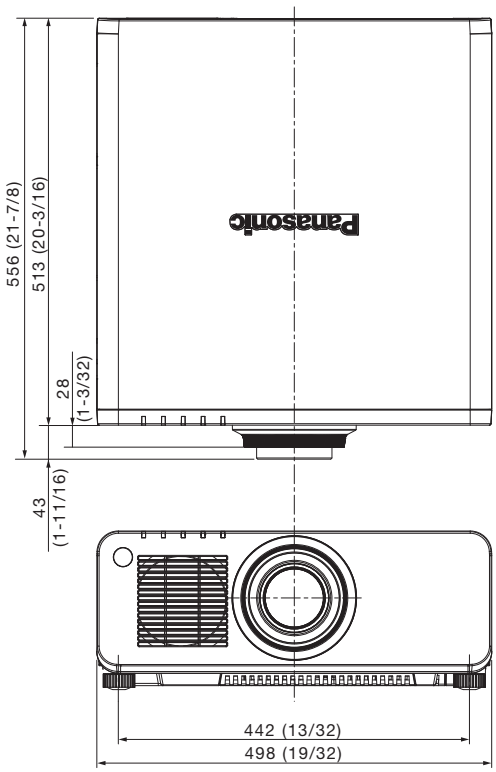
***7 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the fan control is set to High Altitude mode (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in High Altitude mode) when the projector is being used with Lamp Select set to Dual and Lamp Power set to High, the light output may be reduced approximately 20% to protect the projector.**

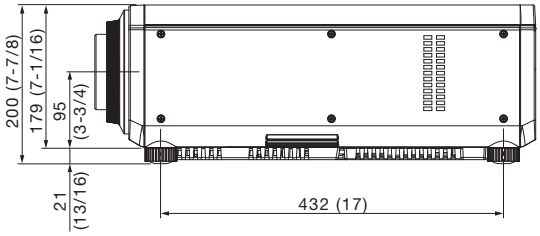
***8 Operation range differs depending on environments.**

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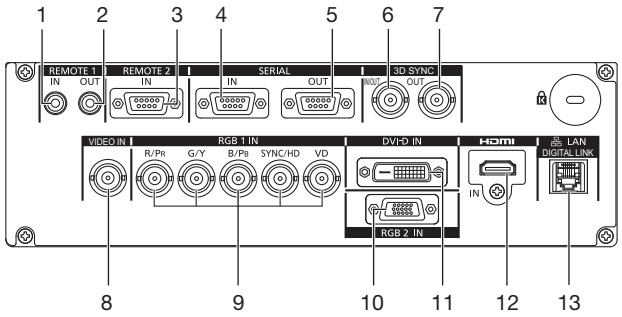
Dimensions





unit : mm (inch)
NOTE: This illustration is not drawn to scale.
The illustration shows the PT-DW830K/DW830W.

Terminals

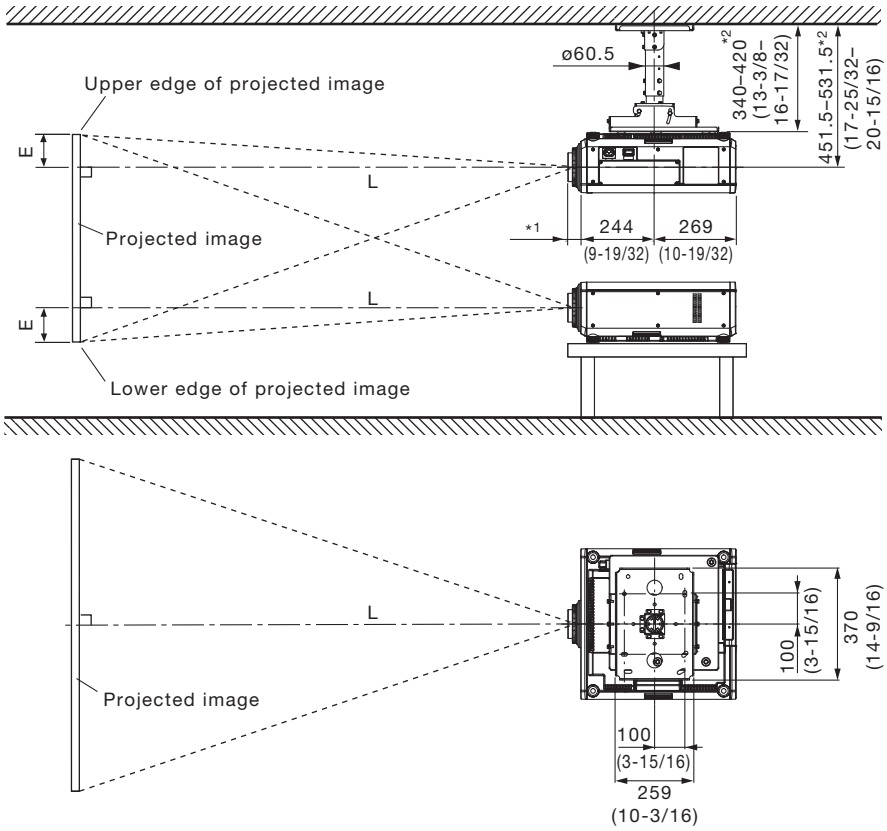


1 Remote 1 input
2 Remote 1 output
3 Remote 2 input
4 Serial input
5 Serial output
6 3D sync 1 input/output
7 3D sync 2 output
8 Video input
9 RGB 1 input
10 RGB 2 Input
11 DVI-D input
12 HDMI input
13 LAN/DIGITAL LINK connector

DLP™ Projectors

PT-DW830K/DW830W/DW830LK/DW830LW

Standard setting-up position



***1 When the lens protrudes to the maximum.**
84 mm (3-5/16 in) with the ET-DLE085
43 mm (1-11/16 in) with the supplied lens
44 mm (1-23/32 in) with the ET-DLE150
45 mm (1-25/32 in) with the ET-DLE250
51 mm (2 in) with the ET-DLE350
95 mm (3-3/4 in) with the ET-DLE450
27 mm (1-1/16 in) with the ET-DLE055

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

unit : mm (inch)

NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKD120H, optional bracket assembly ET-PKD120B 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. Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

DLP™ Projectors

PT-DW830K/DW830W/DW830LK/DW830LW

Projection distance for 16:10 aspect ratio screen

Unit: meters

Screen size (diagonal)		Distance to screen (L)													Height from the edge of screen to center of lens (H)	
		Zoom												Fixed-focus		
		ET-DLE080 Zoom lens		ET-DLE150 Zoom lens		*Supplied lens*		ET-DLE250 Zoom lens		ET-DLE350 Zoom lens		ET-DLE450 Zoom lens		ET-DLE055 Fixed-focus lens	Zoom lenses	Fixed-focus lens
[m]	[in]	min.	max.	min.	max.	*min.*	*max.*	min.	max.	min.	max.	min.	max.			
1.27 /	50	0.87	1.09	1.45	2.12	***1.91***	***2.70***	2.54	4.06	4.00	6.11	5.96	9.60	0.87	-0.07 – 0.34	0.34
1.52 /	60	1.05	1.32	1.75	2.55	***2.31***	***3.26***	3.07	4.89	4.83	7.36	7.21	11.57	1.06	-0.08 – 0.40	0.40
1.78 /	70	1.24	1.54	2.05	2.98	***2.71***	***3.81***	3.59	5.72	5.65	8.61	8.46	13.55	1.24	-0.09 – 0.47	0.47
2.03 /	80	1.42	1.77	2.35	3.42	***3.11***	***4.37***	4.12	6.55	6.48	9.86	9.71	15.53	1.42	-0.11 – 0.54	0.54
2.29 /	90	1.60	2.00	2.65	3.85	***3.50***	***4.92***	4.64	7.38	7.31	11.11	10.96	17.51	1.61	-0.12 – 0.61	0.61
2.54 /	100	1.78	2.22	2.95	4.28	***3.90***	***5.48***	5.17	8.20	8.13	12.36	12.22	19.49	1.79	-0.14 – 0.67	0.67
3.05 /	120	2.15	2.68	3.55	5.15	***4.70***	***6.59***	6.21	9.86	9.79	14.86	14.72	23.45	2.16	-0.16 – 0.81	0.81
3.81 /	150	2.70	3.36	4.45	6.45	***5.89***	***8.25***	7.79	12.35	12.27	18.61	18.47	29.38	2.71	-0.20 – 1.01	1.01
5.08 /	200	3.62	4.49	5.95	8.61	***7.88***	***11.03***	10.41	16.49	16.40	24.85	24.73	39.28	3.63	-0.27 – 1.35	1.35
6.35 /	250	4.53	5.62	7.45	10.78	***9.86***	***13.81***	13.03	20.63	20.53	31.10	30.99	49.17	–	-0.34 – 1.68	–
7.62 /	300	5.45	6.76	8.96	12.95	***11.85***	***16.58***	15.65	24.77	24.67	37.35	37.25	59.06	–	-0.40 – 2.02	–
10.16 /	400	7.28	9.02	11.96	17.28	***15.83***	***22.13***	20.90	33.06	32.94	49.84	49.76	78.85	–	-0.54 – 2.69	–
12.70 /	500	9.11	11.29	14.96	21.61	***19.80***	***27.68***	26.14	41.34	41.20	62.33	62.28	98.64	–	-0.67 – 3.37	–
15.24 /	600	10.94	13.56	17.96	25.94	***23.78***	***33.23***	31.39	49.62	49.47	74.82	74.80	118.43	–	-0.81 – 4.04	–

Unit: feet

Screen size (diagonal)		Distance to screen (L)													Height from the edge of screen to center of lens (H)	
		Zoom												Fixed-focus		
		ET-DLE080 Zoom lens		ET-DLE150 Zoom lens		*Supplied lens*		ET-DLE250 Zoom lens		ET-DLE350 Zoom lens		ET-DLE450 Zoom lens		ET-DLE055 Fixed-focus lens	Zoom lenses	Fixed-focus lens
[m]	[in]	min.	max.	min.	max.	*min.*	*max.*	min.	max.	min.	max.	min.	max.			
1.27 /	50	2.8	3.6	4.7	6.9	***6.3***	***8.9***	8.3	13.3	13.1	20.1	19.5	31.5	2.9	-0.2 – 1.1	1.1
1.52 /	60	3.5	4.3	5.7	8.4	***7.6***	***10.7***	10.1	16.0	15.8	24.2	23.6	38.0	3.5	-0.3 – 1.3	1.3
1.78 /	70	4.1	5.1	6.7	9.8	***8.9***	***12.5***	11.8	18.8	18.5	28.3	27.8	44.5	4.1	-0.3 – 1.6	1.6
2.03 /	80	4.7	5.8	7.7	11.2	***10.2***	***14.3***	13.5	21.5	21.3	32.3	31.9	51.0	4.7	-0.4 – 1.8	1.8
2.29 /	90	5.3	6.5	8.7	12.6	***11.5***	***16.2***	15.2	24.2	24.0	36.4	36.0	57.4	5.3	-0.4 – 2.0	2.0
2.54 /	100	5.9	7.3	9.7	14.0	***12.8***	***18.0***	16.9	26.9	26.7	40.5	40.1	63.9	5.9	-0.4 – 2.2	2.2
3.05 /	120	7.1	8.8	11.6	16.9	***15.4***	***21.6***	20.4	32.4	32.1	48.7	48.3	76.9	7.1	-0.5 – 2.7	2.7
3.81 /	150	8.9	11.0	14.6	21.2	***19.3***	***27.1***	25.5	40.5	40.2	61.0	60.6	96.4	8.9	-0.7 – 3.3	3.3
5.08 /	200	11.9	14.7	19.5	28.3	***25.8***	***36.2***	34.2	54.1	53.8	81.5	81.1	128.9	11.9	-0.9 – 4.4	4.4
6.35 /	250	14.9	18.4	24.5	35.4	***32.4***	***45.3***	42.8	67.7	67.4	102.0	101.7	161.3	–	-1.1 – 5.5	–
7.62 /	300	17.9	22.2	29.4	42.5	***38.9***	***54.4***	51.4	81.3	80.9	122.5	122.2	193.8	–	-1.3 – 6.6	–
10.16 /	400	23.9	29.6	39.2	56.7	***51.9***	***72.6***	68.6	108.4	108.1	163.5	163.3	258.7	–	-1.8 – 8.8	–
12.70 /	500	29.9	37.0	49.1	70.9	***65.0***	***90.8***	85.8	135.6	135.2	204.5	204.3	323.6	–	-2.2 – 11.0	–
15.24 /	600	35.9	44.5	58.9	85.1	***78.0***	***109.0***	103.0	162.8	162.3	245.5	245.4	388.5	–	-2.7 – 13.3	–

- **The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.**
- **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.**
- **The brightness varies depending on the zoom setting.**

Note: When the ET-DLE055 is mounted, the optical lens shift function cannot be used.

DLP™ Projectors

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Projection distance for 16:9 aspect ratio screen

Unit: meters

Screen size (diagonal)		Distance to screen (L)													Height from the edge of screen to center of lens (H)	
		Zoom												Fixed-focus		
		ET-DLE085 Zoom lens		ET-DLE150 Zoom lens		*Supplied lens*		ET-DLE250 Zoom lens		ET-DLE350 Zoom lens		ET-DLE450 Zoom lens		ET-DLE055 Fixed-focus lens	Zoom lenses	Fixed-focus lens
[m]	[in]	min.	max.	min.	max.	*min.*	*max.*	min.	max.	min.	max.	min.	max.			
1.27 /	50	0.89	1.12	1.49	2.18	***1.97***	***2.78***	2.62	4.18	4.11	6.29	6.13	9.87	0.90	-0.14 – 0.31	0.31
1.52 /	60	1.08	1.35	1.80	2.62	***2.38***	***3.35***	3.15	5.03	4.96	7.57	7.42	11.90	1.09	-0.16 – 0.37	0.37
1.78 /	70	1.27	1.59	2.11	3.07	***2.79***	***3.92***	3.69	5.88	5.81	8.85	8.70	13.94	1.28	-0.19 – 0.44	0.44
2.03 /	80	1.46	1.82	2.42	3.51	***3.19***	***4.49***	4.23	6.73	6.66	10.14	9.99	15.97	1.46	-0.22 – 0.50	0.50
2.29 /	90	1.65	2.05	2.72	3.96	***3.60***	***5.06***	4.77	7.58	7.51	11.42	11.28	18.01	1.65	-0.25 – 0.56	0.56
2.54 /	100	1.84	2.29	3.03	4.40	***4.01***	***5.63***	5.31	8.44	8.36	12.71	12.56	20.04	1.84	-0.27 – 0.62	0.62
3.05 /	120	2.21	2.75	3.65	5.29	***4.83***	***6.77***	6.39	10.14	10.06	15.27	15.14	24.11	2.22	-0.33 – 0.75	0.75
3.81 /	150	2.78	3.45	4.58	6.63	***6.05***	***8.49***	8.01	12.69	12.61	19.13	19.00	30.21	2.79	-0.41 – 0.93	0.93
5.08 /	200	3.72	4.62	6.12	8.86	***8.10***	***11.34***	10.70	16.95	16.86	25.55	25.43	40.38	3.73	-0.55 – 1.25	1.25
6.35 /	250	4.66	5.78	7.66	11.08	***10.14***	***14.19***	13.40	21.21	21.11	31.97	31.86	50.54	–	-0.69 – 1.56	–
7.62 /	300	5.60	6.94	9.21	13.31	***12.18***	***17.04***	16.09	25.46	25.36	38.39	38.29	60.71	–	-0.82 – 1.87	–
10.16 /	400	7.48	9.27	12.29	17.76	***16.27***	***22.75***	21.48	33.98	33.86	51.23	51.16	81.05	–	-1.10 – 2.49	–
12.70 /	500	9.36	11.60	15.38	22.21	***20.36***	***28.46***	26.87	42.49	42.35	64.07	64.02	101.39	–	-1.37 – 3.11	–
15.24 /	600	11.24	13.93	18.46	26.67	***24.44***	***34.16***	32.26	51.00	50.85	76.91	76.89	121.73	–	-1.64 – 3.74	–

Unit: feet

Screen size (diagonal)		Distance to screen (L)													Height from the edge of screen to center of lens (H)	
		Zoom												Fixed-focus		
		ET-DLE085 Zoom lens		ET-DLE150 Zoom lens		*Supplied lens*		ET-DLE250 Zoom lens		ET-DLE350 Zoom lens		ET-DLE450 Zoom lens		ET-DLE055 Fixed-focus lens	Zoom lenses	Fixed-focus lens
[m]	[in]	min.	max.	min.	max.	*min.*	*max.*	min.	max.	min.	max.	min.	max.			
1.27 /	50	2.9	3.7	4.9	7.1	***6.5***	***9.1***	8.6	13.7	13.5	20.6	20.1	32.4	2.9	-0.5 – 1.0	1.0
1.52 /	60	3.5	4.4	5.9	8.6	***7.8***	***11.0***	10.3	16.5	16.3	24.8	24.3	39.1	3.6	-0.5 – 1.2	1.2
1.78 /	70	4.2	5.2	6.9	10.1	***9.1***	***12.9***	12.1	19.3	19.1	29.0	28.6	45.7	4.2	-0.6 – 1.4	1.4
2.03 /	80	4.8	6.0	7.9	11.5	***10.5***	***14.7***	13.9	22.1	21.9	33.3	32.8	52.4	4.8	-0.7 – 1.6	1.6
2.29 /	90	5.4	6.7	8.9	13.0	***11.8***	***16.6***	15.7	24.9	24.6	37.5	37.0	59.1	5.4	-0.8 – 1.8	1.8
2.54 /	100	6.0	7.5	9.9	14.4	***13.2***	***18.5***	17.4	27.7	27.4	41.7	41.2	65.7	6.0	-0.9 – 2.0	2.0
3.05 /	120	7.3	9.0	12.0	17.4	***15.8***	***22.2***	21.0	33.3	33.0	50.1	49.7	79.1	7.3	-1.1 – 2.5	2.5
3.81 /	150	9.1	11.3	15.0	21.7	***19.9***	***27.8***	26.3	41.6	41.4	62.7	62.3	99.1	9.1	-1.3 – 3.1	3.1
5.08 /	200	12.2	15.1	20.1	29.1	***26.6***	***37.2***	35.1	55.6	55.3	83.8	83.4	132.5	12.2	-1.8 – 4.1	4.1
6.35 /	250	15.3	19.0	25.1	36.4	***33.3***	***46.6***	44.0	69.6	69.3	104.9	104.5	165.8	–	-2.3 – 5.1	–
7.62 /	300	18.4	22.8	30.2	43.7	***40.0***	***55.9***	52.8	83.5	83.2	125.9	125.6	199.2	–	-2.7 – 6.1	–
10.16 /	400	24.5	30.4	40.3	58.3	***53.4***	***74.6***	70.5	111.5	111.1	168.1	167.8	265.9	–	-3.6 – 8.2	–
12.70 /	500	30.7	38.1	50.5	72.9	***66.8***	***93.4***	88.2	139.4	139.0	210.2	210.0	332.6	–	-4.5 – 10.2	–
15.24 /	600	36.9	45.7	60.6	87.5	***80.2***	***112.1***	105.9	167.3	166.8	252.3	252.2	399.4	–	-5.4 – 12.3	–

- **The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.**
- **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.**
- **The brightness varies depending on the zoom setting.**

Note: When the ET-DLE055 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 16:10

ET-DLE085	minimum	L (m) = (diagonal screen size in inches) × 0.0183 - 0.0471
	maximum	L (m) = (diagonal screen size in inches) × 0.0227 - 0.0442
ET-DLE150	minimum	L (m) = (diagonal screen size in inches) × 0.0300 - 0.0540
	maximum	L (m) = (diagonal screen size in inches) × 0.0433 - 0.0498
Supplied lens	*minimum*	***L (m) = (diagonal screen size in inches) × 0.0398 - 0.0746***
	maximum	***L (m) = (diagonal screen size in inches) × 0.0555 - 0.0725***
ET-DLE250	minimum	L (m) = (diagonal screen size in inches) × 0.0524 - 0.0800
	maximum	L (m) = (diagonal screen size in inches) × 0.0828 - 0.0792
ET-DLE350	minimum	L (m) = (diagonal screen size in inches) × 0.0827 - 0.1351
	maximum	L (m) = (diagonal screen size in inches) × 0.1249 - 0.1346
ET-DLE450	minimum	L (m) = (diagonal screen size in inches) × 0.1251 - 0.3017
	maximum	L (m) = (diagonal screen size in inches) × 0.1979 - 0.2991
ET-DLE055	(fixed focus)	L (m) = (diagonal screen size in inches) × 0.0184 - 0.0476

Aspect ratio 16:9

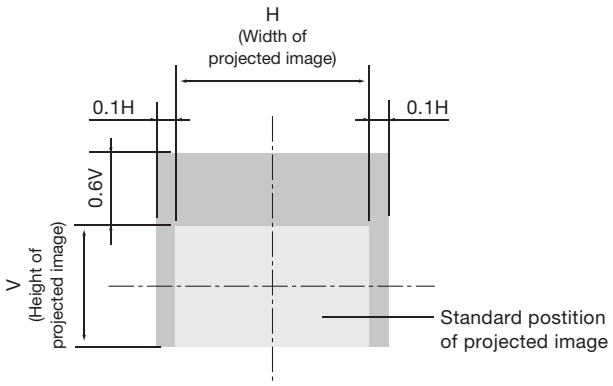
ET-DLE085	minimum	L (m) = (diagonal screen size in inches) × 0.0188 - 0.0471
	maximum	L (m) = (diagonal screen size in inches) × 0.0233 - 0.0442
ET-DLE150	minimum	L (m) = (diagonal screen size in inches) × 0.0309 - 0.0540
	maximum	L (m) = (diagonal screen size in inches) × 0.0445 - 0.0498
Supplied lens	*minimum*	***L (m) = (diagonal screen size in inches) × 0.0409 - 0.0746***
	maximum	***L (m) = (diagonal screen size in inches) × 0.0571 - 0.0725***
ET-DLE250	minimum	L (m) = (diagonal screen size in inches) × 0.0539 - 0.0800
	maximum	L (m) = (diagonal screen size in inches) × 0.0851 - 0.0792
ET-DLE350	minimum	L (m) = (diagonal screen size in inches) × 0.0850 - 0.1351
	maximum	L (m) = (diagonal screen size in inches) × 0.1284 - 0.1346
ET-DLE450	minimum	L (m) = (diagonal screen size in inches) × 0.1286 - 0.3017
	maximum	L (m) = (diagonal screen size in inches) × 0.2034 - 0.2991
ET-DLE055	(fixed focus)	L (m) = (diagonal screen size in inches) × 0.0189 - 0.0476

- **Distances calculated with the above equations will include a slight error.**

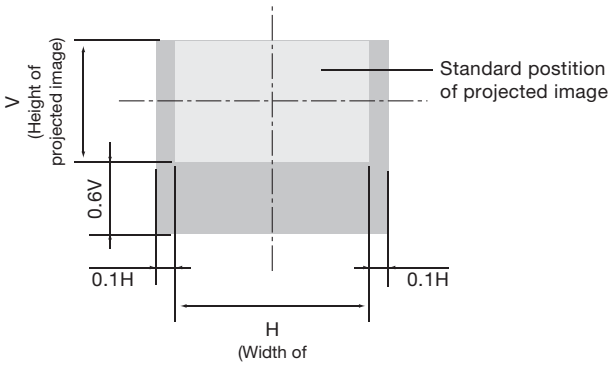
Shift range

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

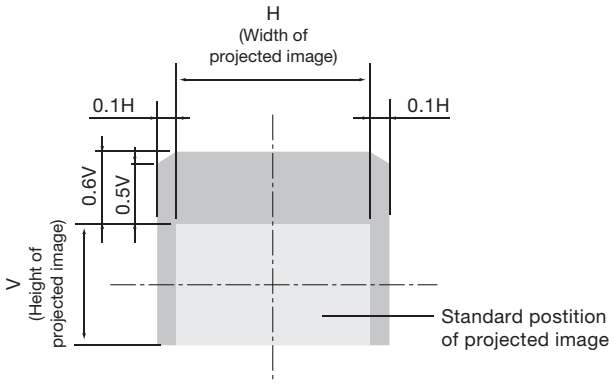
- **Floor mount**
  (When the lens except the ET-DLE085 is mounted.)



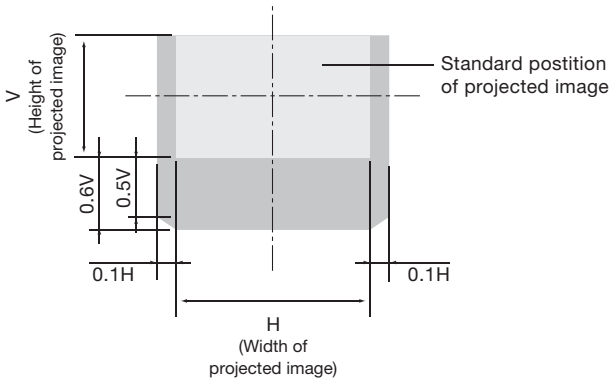
- **Ceiling mount**
  (When the lens except the ET-DLE085 is mounted.)



- **Floor mount**
  (When the ET-DLE085 is mounted.)



- **Ceiling mount**
  (When the ET-DLE085 is mounted.)



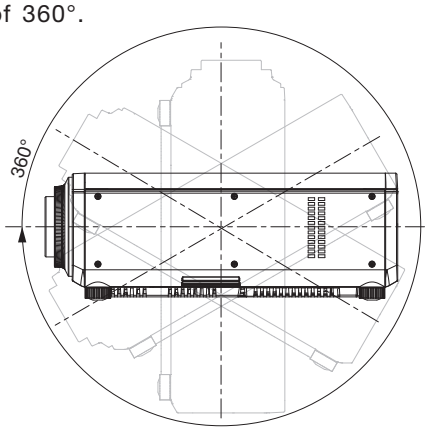
- **The ET-DLE055 has a fixed short-focus lens. Therefore, the lens shift function provided in the main unit cannot be used.**

Installable angle

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

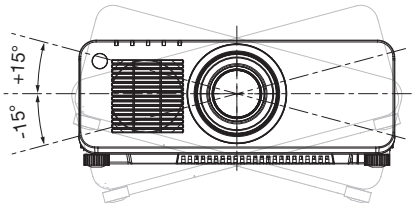
• Vertical direction

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



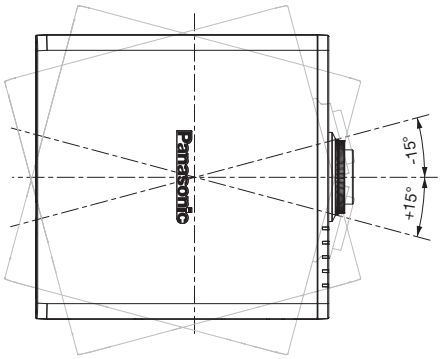
• Horizontal direction

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



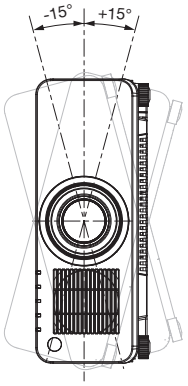
• Vertical direction in portrait mode with the ET-LAD120P/LAD120PW mounted

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



• Horizontal direction in portrait mode with the ET-LAD120P/LAD120PW mounted

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



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

List of compatible signals

The signals that can be input to this projector are shown in the table below. Horizontal scanning frequencies of 15 kHz to 100 kHz, vertical scanning frequencies of 24 Hz to 120 Hz, and a dot clock of 162 MHz maximum can be input.

NOTE: The native resolution of this projector is 1,920 × 1,200 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)*	Scanning frequency H (kHz)	Scanning frequency V (kHz)	Dot clock frequency (MHz)	Format
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	–	
525i (480i)	720 × 480i	15.7	59.9	13.5	YC_BC_R/RGB
625i (576i)	720 × 576i	15.6	50.0	13.5	
525i (480i)	720(1440) × 480i	15.7	59.9	27.0	HDMI/DVI-D
625i (576i)	720(1440) × 576i	15.6	50.0		
525p (480p)	720 × 483	31.5	59.9	27.0	YC_BC_R/RGB/
625p (576p)	720 × 576	31.3	50.0		HDMI/DVI-D
750 (720)/60p	1280 × 720	45.0	60.0	74.3	YP_BP_R/RGB/
750 (720)/50p		37.5	50.0		HDMI/DVI-D
1125 (1080)/60i	1920 × 1080i	33.8	60.0		
1125 (1080)/50i		28.1	50.0		
1125 (1080)/25p	1920 × 1080	28.1	25.0		
1125 (1080)/24p		27.0	24.0		
1125 (1080)/24sF	1920 × 1080i	27.0	48.0		
1125 (1080)/30p	1920 × 1080	33.8	30.0		
1125 (1080)/60p		67.5	60.0	148.5	
1125 (1080)/50p		56.3	50.0		
VGA400	640 × 400	31.5	70.1	25.2	HDMI/DVI-D/RGB
		37.9	85.1	31.5	
VGA480	640 × 480	31.5	59.9	25.2	
		35.0	66.7	30.2	
		37.9	72.8	31.5	
		37.5	75.0	31.5	
		43.3	85.0	36.0	
SVGA	800 × 600	35.2	56.3	36.0	
		37.9	60.3	40.0	
		48.1	72.2	50.0	
		46.9	75.0	49.5	
		53.7	85.1	56.3	
MAC16	832 × 624	49.7	74.6	57.3	
XGA	1024 × 768	39.6	50.0	51.9	
		48.4	60.0	65.0	
		56.5	70.1	75.0	
		60.0	75.0	78.8	
		65.5	81.6	86.0	
		68.7	85.0	94.5	
		81.4	100.0	113.3	
		98.8	120.0	139.1	
MXGA	1152 × 864	53.7	60.0	81.6	
		64.0	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	

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

Display mode	Display resolution (dots)*1	Scanning frequency H (kHz)	Scanning frequency V (kHz)	Dot clock frequency (MHz)	Format
1280 × 720	1280 × 720	37.1	49.8	60.5	RGB/HDMI/DVI-D
		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	
	1280 × 768*2	47.4	60.0	68.3	
	1280 × 768	47.8	59.9	79.5	
		60.3	74.9	102.3	
		68.6	84.9	117.5	
1280 × 800	1280 × 800	41.3	50.0	68.0	
	1280 × 800*2	49.3	59.9	71.0	
	1280 × 800	49.7	59.8	83.5	
		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	39.6	49.9	69.0	
		47.7	59.8	85.5	
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	46.3	49.9	86.8	
		55.9	59.9	106.5	
UXGA60	1600 × 1200	75.0	60.0	162.0	
WSXGA+	1680 × 1050	54.1	50.0	119.5	
		65.3	60.0	146.3	
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	RGB/HDMI/DVI-D
	1920 × 1200*2	74.0	60.0	154.0	
	1920 × 1080	74.6	59.9	193.3	RGB

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

NOTE: DIGITAL LINK and HDMI inputs share the same compatible signal.

List of compatible 3D signals

The 3D signals that can be input to this projector are shown in the table below.

Display mode	Display resolution (dots)*1	Scanning frequency H (kHz)	Scanning frequency V (kHz)	Dot clock frequency (MHz)	HDMI Frame packing	HDMI Side by side*2	HDMI Top and bottom	DVI Side by side*2	DVI Top and bottom	DVI Line by line	DVI Frame sequential
750 (720)/60p	1280 × 720	45.0	60.0	74.3	Yes	Yes	Yes	Yes	Yes	Yes	–
750 (720)/50p		37.5	50.0	74.3							
1125 (1080)/60i	1920 × 1080i	33.8	60.0	74.3			–			–	
1125 (1080)/50i		28.1	50.0	74.3							
1125 (1080)/25p	1920 × 1080	28.1	25.0	74.3	–	–					
1125 (1080)/24p		27.0	24.0	74.3	Yes	Yes	Yes				
1125 (1080)/24sF	1920 × 1080i	27.0	48.0	74.3	–	–	–				
1125 (1080)/30p	1920 × 1080	33.8	30.0	74.3							
1125 (1080)/60p		67.5	60.0	148.5		Yes	Yes				
1125 (1080)/50p		56.3	50.0	148.5							
VGA480	640 × 480	31.5	59.9	25.2		–	–		–		
SVGA	800 × 600	37.9	60.3	40.0							
XGA	1024 × 768	39.6	50.0	51.9	Yes	Yes	Yes		Yes	Yes	Yes
		48.4	60.0	65.0							
		81.4	100.0	113.3	–	–	–	–	–	–	
		98.8	120.0	139.1							
MXGA	1152 × 864	53.7	60.0	81.6				Yes			–
1280 × 720	1280 × 720	37.1	49.8	60.5							
		44.8	59.9	74.5							
		76.3	100.0	131.8				–			Yes
		92.6	120.0	161.6							
1280 × 768	1280 × 768	39.6	49.9	65.3				Yes			–
		47.8	59.9	79.5							
	1280 × 768 *3	47.4	60.0	68.3							
1280 × 800	1280 × 800	41.3	50.0	68.0	Yes	Yes	Yes		Yes	Yes	Yes
		49.7	59.8	83.5							
	1280 × 800 *3	49.3	59.9	71.0							
MSXGA	1280 × 960	60.0	60.0	108.0	–	–	–		–	–	–
SXGA	1280 × 1024	52.4	50.0	88.0							
		64.0	60.0	108.0							
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							
WXGA+	1440 × 900	55.9	59.9	106.5				Yes			
		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 *3	66.6	59.9	138.5							
WUXGA	1920 × 1200	61.8	49.9	158.3							
	1920 × 1200 *3	74.0	60.0	154.0						Yes	

***1 The "i" appearing after the resolution indicates an interlaced signal.**
***2 Compatible with half-resolution signals.**
***3 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**

DLP™ Projectors

PT-DW830K/DW830W/DW830LK/DW830LW

Display mode	Display resolution (dots)*1	Scanning frequency H (kHz)	Scanning frequency V (kHz)	Dot clock frequency (MHz)	RGB1/RGB2				HDMI & DVI	RGB1 & RGB2
					Side by side*2	Top and bottom	Line by line	Frame sequential	Simultaneous	Simultaneous
750 (720)/60p	1280 × 720	45.0	60.0	74.3	Yes	Yes	Yes	–	Yes	Yes
750 (720)/50p		37.5	50.0	74.3						
1125 (1080)/60i	1920 × 1080i	33.8	60.0	74.3			–			
1125 (1080)/50i		28.1	50.0	74.3						
1125 (1080)/25p	1920 × 1080	28.1	25.0	74.3						
1125 (1080)/24p		27.0	24.0	74.3						
1125 (1080)/24sF	1920 × 1080i	27.0	48.0	74.3						
1125 (1080)/30p	1920 × 1080	33.8	30.0	74.3						
1125 (1080)/60p		67.5	60.0	148.5						
1125 (1080)/50p		56.3	50.0	148.5						
VGA480	640 × 480	31.5	59.9	25.2		–			–	–
SVGA	800 × 600	37.9	60.3	40.0						
XGA	1024 × 768	39.6	50.0	51.9					Yes	Yes
		48.4	60.0	65.0						
		81.4	100.0	113.3	–			Yes	–	–
		98.8	120.0	139.1						
MXGA	1152 × 864	53.7	60.0	81.6	Yes			–		
1280 × 720	1280 × 720	37.1	49.8	60.5						
		44.8	59.9	74.5						
		76.3	100.0	131.8	–			Yes		
		92.6	120.0	161.6						
1280 × 768	1280 × 768	39.6	49.9	65.3	Yes			–		
		47.8	59.9	79.5						
	1280 × 768 *3	47.4	60.0	68.3						
1280 × 800	1280 × 800	41.3	50.0	68.0					Yes	Yes
		49.7	59.8	83.5						
	1280 × 800 *3	49.3	59.9	71.0						
MSXGA	1280 × 960	60.0	60.0	108.0					–	–
SXGA	1280 × 1024	52.4	50.0	88.0						
		64.0	60.0	108.0						
1366 × 768	1366 × 768	39.6	49.9	69.0						
		47.7	59.8	85.5						
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						
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 *3	66.6	59.9	138.5						
WUXGA	1920 × 1200	61.8	49.9	158.3					Yes	Yes
	1920 × 1200 *3	74.0	60.0	154.0			Yes			

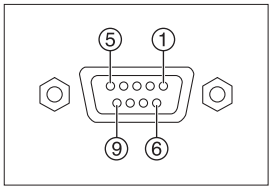
***1 The "i" appearing after the resolution indicates an interlaced signal.**
***2 Compatible with half-resolution signals.**
***3 Compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**

NOTE: DIGITAL LINK and HDMI inputs share the same compatible signal.

Serial connector

The serial connector complies with RS-232C. To control the projector from a personal computer, commands must be input through communication software, based on the format and satisfying the communication conditions shown below.

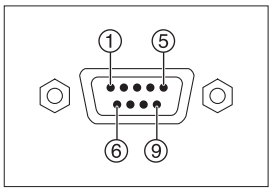
Pin assignments and signal names



D-sub 9-pin (female) Serial input

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

Pin assignments and signal names



D-sub 9-pin (male) Serial output

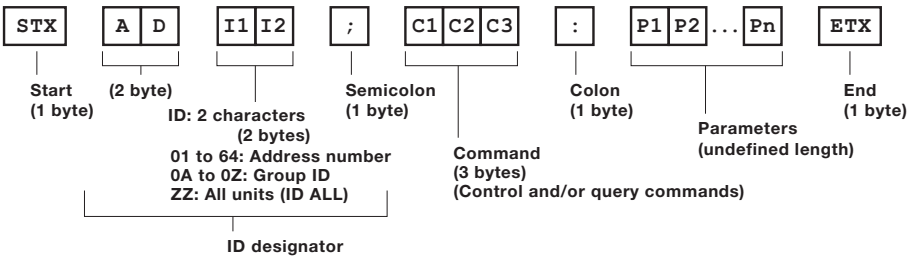
No.	Signal name	Description	No.	Signal name	Description
1	–	NC	6	–	NC
2	RXD	Receive data	7	RTS	Connected internally
3	TXD	Send data	8	CTS	Connected internally
4	–	NC	9	–	NC
5	GND	Ground			

Communication conditions (factory setting)

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

Basic format

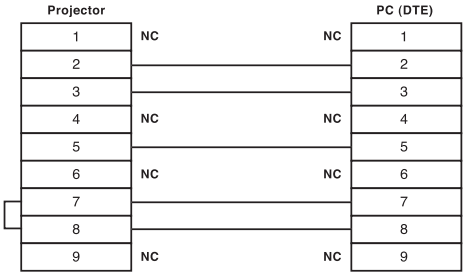
Transmission from the computer begins with STX, then the ID, command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



CAUTION

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

Cable specifications



Control commands

Command : Parameter	Function		Callback
PON	POWER (STANDBY)	Standby power on	PON
POF		Standby power off	POF
OSH:0	SHUTTER	Shutter off	OSH:0
OSH:1		Shutter on	OSH:1
IIS:DL1	INPUT SELECT	DIGITAL LINK	IIS:DL1
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
VXX:RYC1=+00000	RGB INPUT SETTING	RGB/YCBCR/RGB	VXX:RYC1=+00000
VXX:RYC1=+00001		S-Video	VXX:RYC1=+00001
IIS:DL1:HD1	When an ET-YFB100G digital interface box is connected, the ET-YFB100G input switches at the same time as input is switched to the digital link input.	HDMI 1	IIS:DL1:HD1
IIS:DL1:HD2		HDMI 2	IIS:DL1:HD2
IIS:DL1:PC1		Computer 1	IIS:DL1:PC1
IIS:DL1:PC2		Computer 2	IIS:DL1:PC2
IIS:DL1:VID		Video	IIS:DL1:VID
IIS:DL1:SVD		S-Video	IIS:DL1:SVD
LPM:0	LAMP SELECT	Dual (two lamps)	LPM:0
LPM:1		Single lamp	LPM:1
LPM:2		Lamp 1	LPM:2
LPM:3		Lamp 2	LPM:3
OLP:0	Lamp power	Normal	OLP:0
OLP:1		Eco	OLP:1
VSE:1	ASPECT RATIO SWITCHING	Standard/VID Auto	VSE:1
VSE:2		4:3	VSE:2
VSE:5		16:9	VSE:5
VSE:6		HV fit	VSE:6
VSE:9		H fit	VSE:9
VSE:10		V fit	VSE:10
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:709		Rec.709	VPM:709
VPM:DIC		DICOM	VPM:DIC
VXX:DLVI0=+00000	SYSTEM DAYLIGHT VIEW	Off	VXX:DLVI0=+00000
VXX:DLVI0=+00001		1	VXX:DLVI0=+00001
VXX:DLVI0=+00002		2	VXX:DLVI0=+00002
VXX:DLVI0=+00003		3	
OTE:4	COLOR TEMPERATURE	User 1	OTE:4
OTE:9		User 2	OTE:9
OTE:10		Default	OTE:10
OTE:3200		3200K	OTE:3200
OTE:3300		3200K	OTE:3300
:		:	:
OTE:9200		3200K	OTE:9200
OTE:9300		3200K	OTE:9300
TSD:y1y2y3y4m1m2d1d2w	DATE	Date setting	TSD:y1y2y3y4m1m2d1d2w
TST:h1h2m1m2s1s2	TIME	Time setting	TST:h1h2m1m2s1s2
OOS:0	ON SCREEN	On-screen display off	OOS:0
OOS:1		On-screen display on	OOS:1

*** Do not send PON, POF, or OSH 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	000	Off
		001	On
QSH	Shutter function status	0	Off
		1	On
QIN	Input signal status	DL1	DIGITAL LINK
		HD1	HDMI
		DVI	DVI
		RG1	RGB 1
		RG2	RGB 2
		VID	Video
	Input channel for ET-YFB100G digital interface box during digital link input selection	DL1:HD1	HDMI 1
		DL1:HD2	HDMI 2
		DL1:PC1	Computer 1
		DL1:PC2	Computer 2
		DL1:VID	Video
		DL1:SVD	S-Video
QSL	Lamp operation mode status	0	Dual (two lamps)
		1	Single lamp
		2	lamp 1
		3	lamp 2
QLP	Lamp power mode status	0	Normal
		1	Eco
QPM	Picture mode status	NAT	Natural
		STD	Standard
		DYN	Dynamic
		CIN	Cinema
		GRA	Graphic
		709	Rec. 709
		DIC	DICOM
QVX:DLVI0	System daylight view status	DLVI0=+00000	Off
		DLVI0=+00001	1
		DLVI0=+00002	2
		DLVI0=+00003	3
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
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
QOS	On-screen display status	0	Off
		1	On

*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.

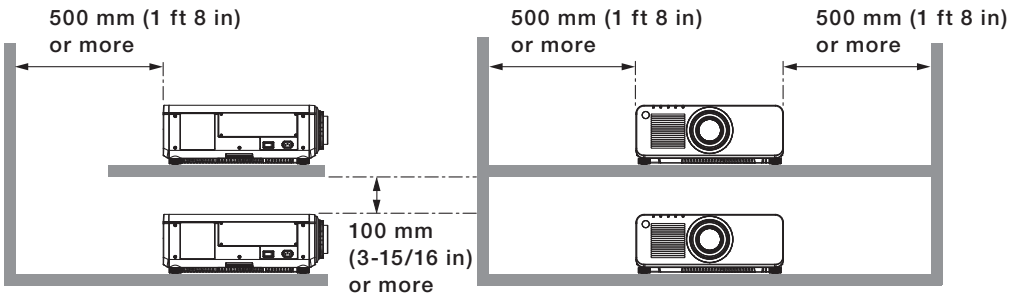


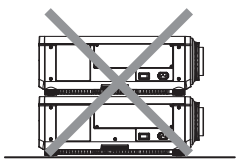
NOTE: When sending commands without parameters, a colon (:) is not necessary.

Notes on projector placement and operation

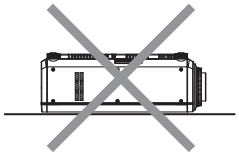
The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

1. Never place objects on top of the projector.
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 for the purpose of multiple (stacked) projection. When stacking projector units, be sure to provide the amount of space indicated below between them. These space requirements also apply to installations where only one projector unit is operating at one time and the other unit is used as a backup.
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 projector's intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake openings.
7. When installing the projector in any manner other than floor mounting with the adjuster legs, use the six threaded ceiling mount holes (screw diameter: M6, projector interior thread length: 12 mm) to secure the projector.



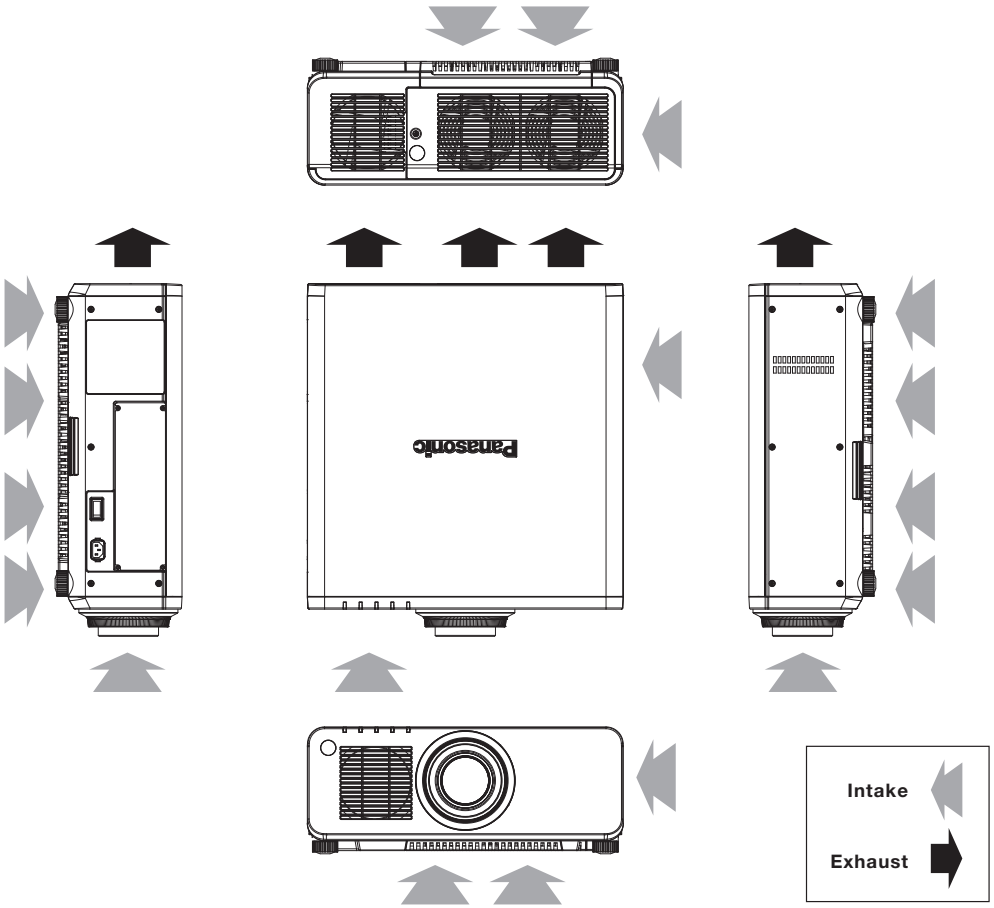


Do not stack projector units directly on top of one another.



Do not support the projector unit by its top while it is in use.

Direction of air intake and exhaust



Operating the projector continuously

1. If the projector is to be operated continuously for one week, use the dual-lamp optical system's alternating lamp operation (lamp relay) function. The projector cannot be operated continuously one week 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 one week.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

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