Panasonic ideas for life
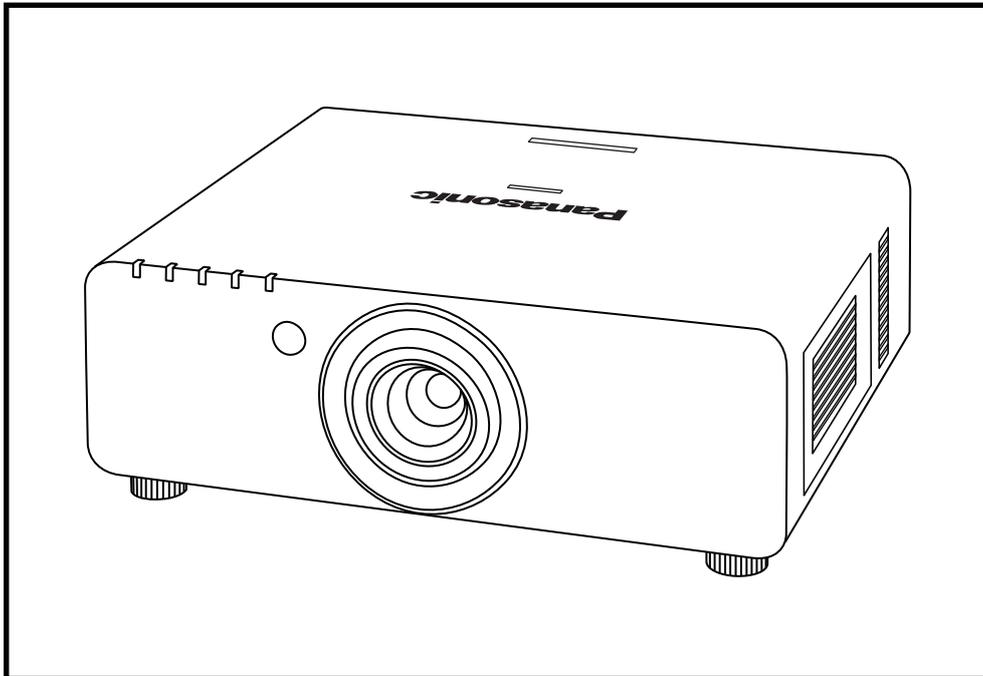
S P E C   F I L E

The PT-DZ6710L is not equipped with a lens.

Product Number :   PT-**DZ6710**/**DZ6710L**

Product Name :   DLP™ Projectors

DLP™ Projectors

PT-**DZ6710/DZ6710L**

Specifications

Main Unit

Power supply:	North America:	120 V AC, 50/60 Hz
	Europe:	220–240 V AC, 50/60 Hz
Power consumption:	North America:	820 W (880 VA) (Standby mode eco*[1]: 0.2 W, Standby mode normal: 8 W. Both with fan stopped.)
	Europe:	800 W (960 VA) (Standby mode eco*[1]: 0.3 W, Standby mode normal: 9 W. Both with fan stopped.)
DLP™ chip:	Panel size:	0.67″ diagonal (16:10 aspect ratio)
	Display method:	DLP™ chip x 1, DLP™ system
	Pixels:	2,304,000 (1,920 x 1,200) x 1, total of 2,304,000 pixels
Lens:	PT-DZ6710:	Powered zoom/focus lenses (1.8–2.4:1), F 1.7–2.0, f 26.8–35.7 mm
	PT-DZ6710L:	Optional poweredzoom/focus lenses
Lamp:		300 W UHM lamps (x 2) (dual lamp system)
Screen size:		50–600 inches (50–200 inches with the ET-DLE055), 16:10 aspect ratio
Brightness*[2]:		6,000 lumens (dual lamp, high power mode)
Center-to-corner uniformity*[2]:		90%
Contrast*[2]:		2,000:1 (full on/full off, contrast mode: high, brightness: 3,000 lumens)
		1,000:1 (full on/full off, contrast mode: normal)
Resolution:		1,920 x 1,200 pixels
Scanning frequency:	RGB/DVI-D:	Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 162 MHz or lower
	YPBPR (YCBCR):	525i (480i): f_H 15.75 kHz; f_V 60 Hz,
		625i (576i): f_H 15.63 kHz; f_V 50 Hz,
		525p (480p): f_H 31.50 kHz; f_V 60 Hz,
		625p (576p): f_H 31.25 kHz; f_V 50 Hz,
		750 (720)/60p: f_H 45.00 kHz; f_V 60 Hz,
		750 (720)/50p: f_H 37.50 kHz; f_V 50 Hz,
		1035/60i: f_H 33.75 kHz; f_V 60 Hz,
		1125 (1080)/60i: f_H 33.75 kHz; f_V 60 Hz,
		1125 (1080)/50i: f_H 28.13 kHz; f_V 50 Hz,
		1080/25p: f_H 28.13 kHz; f_V 25 Hz,
		1080/24p: f_H 27.00 kHz; f_V 24 Hz
		1080/24sF: f_H 27.00 kHz; f_V 48 Hz,
		1080/30p: f_H 33.75 kHz; f_V 30 Hz
		1080/60p: f_H 67.50 kHz; f_V 60 Hz,
		1080/50p: f_H 56.25 kHz; f_V 50 Hz
	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:		Vertical: +50% (powered), horizontal: ±10% (powered)
Keystone correction range:		Vertical: ±40°(±30° with the ET-DLE055).

    When using only the KEYSTONE correction of the Geometric Adjustment function: Vertical ±40°, horizontal ±15° (vertical ±30° and horizontal ±15° with the ET-DLE055).

    When using both the KEYSTONE and CURVED corrections of the Geometric Adjustment function: Vertical ±5°, horizontal ±5° (vertical ±10° and horizontal ±10° with the ET-DLE350, and vertical ±10° and horizontal ±15° with the ET-DLE450).

Installation:		Ceiling/floor, front/rear
Terminals*[3]:	SDI IN:	BNC x 1,

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

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

	DVI-D IN:	DVI-D 24-pin x 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 x 480)–WUXGA*[4] (1,920 x 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz

	RGB 1 IN:	BNC x 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: High impedance, TTL (positive/negative), 75 ohms
	Y, PB, PR:	Y: 1.0 Vp-p (including sync signal), PB/PR: 0.7 Vp-p, 75 ohms
		NOTE: HD/SYNC, and VD terminals do not accept tri-leve sync signals.
	RGB 2 IN:	D-sub HD 15-pin x 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: High impedance, TTL (positive/negative), 75 ohms
		NOTE: HD/SYNC, and VD terminals do not accept tri-leve sync signals.
	Y, PB, PR:	Y: 1.0 Vp-p (including sync signal), PB/PR: 0.7 Vp-p, 75 ohms
	VIDEO IN:	BNC x 1, 1.0 Vp-p, 75 ohms
	S-VIDEO IN:	Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms
	SERIAL IN:	D-sub 9-pin x 1 (RS-232C compliant) for external controller
	SERIAL OUT:	D-sub 9-pin x 1 for link control
	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)
	LAN:	RJ-45 x 1 for network connection, 10Base-T/100Base-TX, compliant with PJLink™
Power cord length:		3.0 m (9′10″)
Cabinet materials:		Molded plastic
Dimensions (W x H x D):	PT-DZ6710:	498 mm x 175 mm*5 x 440 mm*6 (19-19/32″ x 6-7/8″ *5 x 17-5/16″ *6) (with supplied lens)
	PT-DZ6710L:	498 mm x 175 mm*5 x 432 mm (19-19/32″ x 6-7/8″ *5 x 17″) (without lens)
Weight:	PT-DZ6710:	Approx. 16.0 kg (35.3 lbs)(with supplied lens)
	PT-DZ6710L:	Approx. 15.2 kg (33.5 lbs)(without lens)
Operating temperature:		0°–45°C (32°–113°F)
Operating humidity:		20%–80% (no condensation)

Remote Control Unit

Power supply:	3 V DC (AA battery x 2)
Operation range*7:	Approx. 30 m (98′5″) when operated from directly signal receptor
Dimensions (W x H x D):	51 x 176 x 23 mm (2″ x 6-15/16″ x 29/32″)
Weight:	134 g (4.7 oz) (including batteries)

Supplied Accessories

Power cord
Wireless/wired remote control unit
Batteries for remote control (x 2)
Wire rope

Optional Accessories

Zoom lens (1.3–1.9:1)	ET-DLE150
Zoom lens (2.3–3.6:1)	ET-DLE250
Zoom lens (3.6–5.4:1)	ET-DLE350
Zoom lens (5.4–8.6:1)	ET-DLE450
Fixed-focus lens (0.8:1)	ET-DLE055
Ceiling mount bracket:	ET-PKD56H (for high ceilings)
	ET-PKD55S (for low ceilings)

Weights and dimensions shown are approximate. Specifications subject to change without notice.
*1 In Standby mode eco, LAN-based network functions such as the standby ON function will not operate.
*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
*3 The HD/SYNC and VD inputs do not accept the tri-level sync signal.
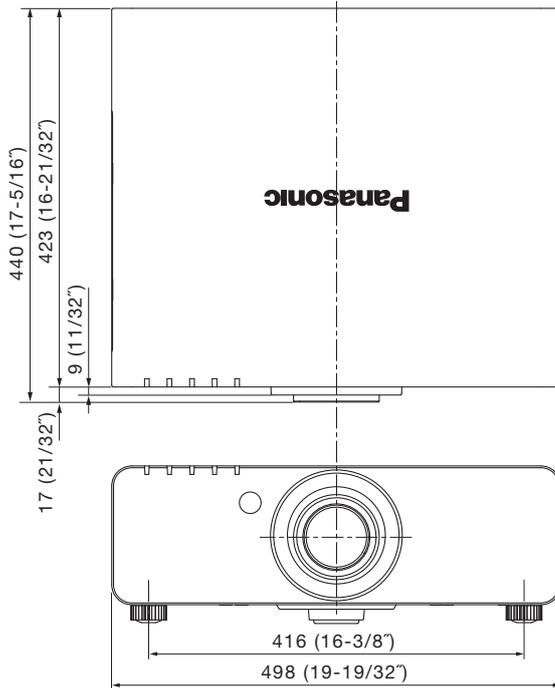***4 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).**
*5 With legs at shortest position.
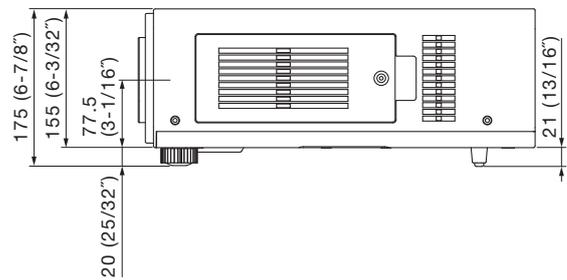***6 Including the supplied lens.**
*7 Operation range differs depending on environments.

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DLP™ Projectors

PT-**DZ6710/DZ6710L**

Dimensions

unit : mm (inch)
NOTE: This illustration is not drawn to scale.
The illustration shows the PT-DZ6710.

440 (17-5/16″)
423 (16-21/32″)
9 (11/32″)
17 (21/32″)

416 (16-3/8″)
498 (19-19/32″)

175 (6-7/8″)
155 (6-3/32″)
77.5 (3-1/16″)
20 (25/32″)
21 (13/16″)

Terminals

1	Video input	7	Remote 1 input
2	S-Video input	8	Remote 1 output
3	RGB 1 input	9	Remote 2 input
4	RGB 2 Input	10	Serial input
5	DVI-D input	11	Serial output
6	LAN connector	12	SDI input

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Standard setting-up position (when installed using the ET-PKD56H)

Upper edge of projected image

Projected image

L

Projected image

Lower edge of projected image

L

340–420
(13-3/8″ –
16-17/32″) *2

416–496
(16-3/8″ –
19-17/32″)

*1 256
(10-1/32″)

*1 When the lens protrudes to the maxi-
   mum.
   185 mm (7-9/32″) with the supplied lens
   212 mm (8-11/32″) with the ET-DLE150
   213 mm (8-3/8″) with the ET-DLE250
   219 mm (8-5/8″) with the ET-DLE350
   263 mm (10-11/32″) with the ET-DLE450
   195 mm (7-11/16″) with the ET-DLE055

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

unit : mm (inch)

L

Projected image

100
(3-15/16″)

344
(13-17/32″)

100
(3-15/16″)

400
(15-3/4″)

C A U T I O N

The ET-DLE055 has a fixed short-focus lens. Therefore, the lens shift function provided in the main unit cannot be used.
If the lens shift function is used, the corners of images may not be displayed or images may remain out of focus in some cases.

DLP™ Projectors

PT-**DZ6710/DZ6710L**

Projection distance for 16:10 aspect ratio screen

Unit: millimeters

Screen size (inch, diagonal)	Distance to screen (L)										Height from the edge of screen to center of lens (H)	
	Zoom									Fixed-focus	Zoom lenses	Fixed-focus lens*
	ET-DLE150 Zoom lens		Supplied lens		ET-DLE250 Zoom lens		ET-DLE350 Zoom lens		ET-DLE450 Zoom lens		ET-DLE055 Fixed-focus lens		
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
50	1,376	2,013	1,901	2,571	2,418	3,865	3,802	5,815	5,659	9,123	828	0 – 337	337
60	1,662	2,426	2,296	3,100	2,917	4,654	4,589	7,004	6,851	11,008	1,003	0 – 404	404
70	1,948	2,838	2,691	3,629	3,417	5,443	5,377	8,194	8,043	12,892	1,178	0 – 471	471
80	2,234	3,251	3,086	4,158	3,916	6,232	6,164	9,384	9,235	14,777	1,353	0 – 538	538
90	2,520	3,663	3,481	4,687	4,416	7,021	6,951	10,574	10,427	16,661	1,528	0 – 606	606
100	2,806	4,076	3,876	5,215	4,915	7,810	7,739	11,764	11,619	18,546	1,703	0 – 673	673
120	3,378	4,901	4,666	6,273	5,914	9,388	9,314	14,143	14,003	22,315	2,053	0 – 808	808
150	4,236	6,139	5,851	7,860	7,413	11,754	11,676	17,713	17,579	27,968	2,578	0 – 1010	1010
200	5,666	8,202	7,827	10,504	9,910	15,699	15,613	23,662	23,539	37,391	3,454	0 – 1,346	1,346
250	7,096	10,264	9,802	13,149	12,408	19,643	19,550	29,611	29,499	46,813	–	0 – 1,683	–
300	8,526	12,327	11,777	15,793	14,905	23,588	23,487	35,560	35,460	56,236	–	0 – 2,019	–
400	11,386	16,453	15,728	21,082	19,900	31,477	31,361	47,458	47,380	75,081	–	0 – 2,692	–
500	14,245	20,579	19,679	26,371	24,895	39,366	39,235	59,356	59,300	93,926	–	0 – 3,365	–
600	17,105	24,704	23,629	31,660	29,890	47,255	47,109	71,255	71,221	112,771	–	0 – 4,039	–

Unit: feet

Screen size (inch, diagonal)	Distance to screen (L)										Height from the edge of screen to center of lens (H)	
	Zoom									Fixed-focus	Zoom lenses	Fixed-focus lens*
	ET-DLE150 Zoom lens		Supplied lens		ET-DLE250 Zoom lens		ET-DLE350 Zoom lens		ET-DLE450 Zoom lens		ET-DLE055 Fixed-focus lens		
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
50	4.6	6.7	6.3	8.5	8.0	12.7	12.5	19.1	18.6	30.0	2.7	0.0 – 1.1	1.1
60	5.5	8.0	7.6	10.2	9.6	15.3	15.1	23.0	22.5	36.2	3.3	0.0 – 1.4	1.4
70	6.4	9.4	8.9	12.0	11.3	17.9	17.7	26.9	26.4	42.3	3.9	0.0 – 1.6	1.6
80	7.4	10.7	10.2	13.7	12.9	20.5	20.3	30.8	30.3	48.5	4.5	0.0 – 1.8	1.8
90	8.3	12.1	11.5	15.4	14.5	23.1	22.9	34.7	34.3	54.7	5.1	0.0 – 2.0	2.0
100	9.3	13.4	12.8	17.2	16.2	25.7	25.4	38.6	38.2	60.9	5.6	0.0 – 2.3	2.3
120	11.1	16.1	15.4	20.6	19.5	30.9	30.6	46.5	46.0	73.3	6.8	0.0 – 2.7	2.7
150	13.9	20.2	19.2	25.8	24.4	38.6	38.4	58.2	57.7	91.8	8.5	0.0 – 3.4	3.4
200	18.6	27.0	25.7	34.5	32.6	51.6	51.3	77.7	77.3	122.7	11.4	0.0 – 4.5	4.5
250	23.3	33.7	32.2	43.2	40.8	64.5	64.2	97.2	96.8	153.6	–	0.0 – 5.6	–
300	28.0	40.5	38.7	51.9	49.0	77.4	77.1	116.7	116.4	184.6	–	0.0 – 6.7	–
400	37.4	54.0	51.7	69.2	65.3	103.3	102.9	155.8	155.5	246.4	–	0.0 – 8.9	–
500	46.8	67.6	64.6	86.6	81.7	129.2	128.8	194.8	194.6	308.2	–	0.0 – 11.1	–
600	56.2	81.1	77.6	103.9	98.1	155.1	154.6	233.8	233.7	370.0	–	0.0 – 13.3	–

- **The value for L (distance to screen) varies slightly 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.**
- **The brightness varies depending on the zoom setting.**

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Projection distance for 16:9 aspect ratio screen

Unit: millimeters

Screen size (inch, diagonal)	Distance to screen (L)											Height from the edge of screen to center of lens (H)	
	Zoom										Fixed-focus		
	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*
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
50	1,416	2,070	1,956	2,645	2,487	3,975	3,911	5,980	5,824	9,385	852	-62 – 311	311
60	1,710	2,494	2,362	3,188	3,000	4,786	4,721	7,203	7,049	11,322	1,032	-75 – 374	374
70	2,004	2,919	2,768	3,732	3,514	5,597	5,530	8,426	8,275	13,259	1,212	-87 – 436	436
80	2,298	3,343	3,174	4,275	4,027	6,407	6,339	9,649	9,500	15,196	1,392	-100 – 498	498
90	2,591	3,767	3,580	4,819	4,541	7,218	7,148	10,872	10,725	17,133	1,572	-112 – 560	560
100	2,885	4,191	3,986	5,362	5,054	8,029	7,958	12,094	11,950	19,070	1,752	-125 – 623	623
120	3,473	5,039	4,798	6,450	6,081	9,651	9,576	14,540	14,400	22,944	2,112	-149 – 747	747
150	4,355	6,311	6,016	8,080	7,621	12,083	12,004	18,209	18,076	28,754	2,651	-187 – 934	934
200	5,825	8,431	8,046	10,798	10,188	16,137	16,051	24,323	24,202	38,439	3,551	-249 – 1,245	1,245
250	7,294	10,551	10,077	13,516	12,755	20,192	20,097	30,438	30,328	48,123	–	-311 – 1,557	–
300	8,764	12,671	12,107	16,234	15,322	24,246	24,144	36,552	36,454	57,808	–	-374 – 1,868	–
400	11,704	16,912	16,167	21,670	20,456	32,354	32,236	48,781	48,706	77,177	–	-498 – 2,491	–
500	14,643	21,152	20,228	27,106	25,590	40,462	40,329	61,010	60,957	96,546	–	-623 – 3,113	–
600	17,582	25,393	24,288	32,542	30,723	48,571	48,422	73,239	73,209	115,915	–	-747 – 3,736	–

Unit: feet

Screen size (inch, diagonal)	Distance to screen (L)											Height from the edge of screen to center of lens (H)	
	Zoom										Fixed-focus		
	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*
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
50	4.7	6.8	6.5	8.7	8.2	13.1	12.9	19.7	19.2	30.8	2.8	-0.2 – 1.0	1.0
60	5.7	8.2	7.8	10.5	9.9	15.8	15.5	23.7	23.2	37.2	3.4	-0.3 – 1.3	1.3
70	6.6	9.6	9.1	12.3	11.6	18.4	18.2	27.7	27.2	43.6	4.0	-0.3 – 1.5	1.5
80	7.6	11.0	10.5	14.1	13.3	21.1	20.8	31.7	31.2	49.9	4.6	-0.4 – 1.7	1.7
90	8.6	12.4	11.8	15.9	14.9	23.7	23.5	35.7	35.2	56.3	5.2	-0.4 – 1.9	1.9
100	9.5	13.8	13.1	17.6	16.6	26.4	26.2	39.7	39.3	62.6	5.8	-0.5 – 2.1	2.1
120	11.4	16.6	15.8	21.2	20.0	31.7	31.5	47.8	47.3	75.3	7.0	-0.5 – 2.5	2.5
150	14.3	20.8	19.8	26.6	25.1	39.7	39.4	59.8	59.4	94.4	8.7	-0.7 – 3.1	3.1
200	19.2	27.7	26.4	35.5	33.5	53.0	52.7	79.8	79.5	126.2	11.7	-0.9 – 4.1	4.1
250	24.0	34.7	33.1	44.4	41.9	66.3	66.0	99.9	99.6	157.9	–	-1.1 – 5.2	–
300	28.8	41.6	39.8	53.3	50.3	79.6	79.3	120.0	119.6	189.7	–	-1.3 – 6.2	–
400	38.4	55.5	53.1	71.1	67.2	106.2	105.8	160.1	159.8	253.3	–	-1.7 – 8.2	–
500	48.1	69.4	66.4	89.0	84.0	132.8	132.4	200.2	200.0	316.8	–	-2.1 – 10.3	–
600	57.7	83.4	79.7	106.8	100.8	159.4	158.9	240.3	240.2	380.3	–	-2.5 – 12.3	–

- **The value for L (distance to screen) varies slightly 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.**
- **The brightness varies depending on the zoom setting.**

DLP™ Projectors

PT-**DZ6710/DZ6710L**

Projection distance for 4:3 aspect ratio screen

Unit: millimeters

Screen size (inch, diagonal)	Distance to screen (L)										Height from the edge of screen to center of lens (H)	
	Zoom									Fixed-focus		
	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*
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
50	1,565	2,286	2,162	2,920	2,747	4,386	4,322	6,600	6,446	10,368	943	0 – 381	381
60	1,889	2,753	2,609	3,519	3,313	5,279	5,213	7,947	7,795	12,501	1,142	0 – 457	457
70	2,212	3,220	3,056	4,118	3,878	6,173	6,105	9,294	9,145	14,635	1,340	0 – 533	533
80	2,536	3,687	3,503	4,716	4,444	7,066	6,996	10,641	10,494	16,768	1,538	0 – 610	610
90	2,860	4,154	3,951	5,315	5,009	7,959	7,887	11,988	11,844	18,902	1,736	0 – 686	686
100	3,184	4,621	4,398	5,914	5,575	8,852	8,779	13,335	13,193	21,035	1,934	0 – 762	762
120	3,831	5,555	5,292	7,111	6,706	10,638	10,562	16,029	15,892	25,302	2,331	0 – 914	914
150	4,802	6,956	6,634	8,908	8,402	13,317	13,236	20,070	19,941	31,702	2,925	0 – 1143	1143
200	6,421	9,291	8,870	11,901	11,229	17,783	17,693	26,805	26,688	42,369	3,916	0 – 1,524	1,524
250	8,040	11,627	11,107	14,895	14,057	22,248	22,150	33,540	33,435	53,036	–	0 – 1,905	–
300	9,659	13,962	13,343	17,889	16,884	26,714	26,607	40,275	40,183	63,703	–	0 – 2,286	–
400	12,896	18,633	17,815	23,876	22,539	35,645	35,521	53,744	53,678	85,037	–	0 – 3,048	–
500	16,134	23,303	22,288	29,864	28,194	44,576	44,435	67,214	67,172	106,371	–	0 – 3,810	–
600	19,372	27,974	26,760	35,851	33,848	53,507	53,349	80,684	80,667	127,705	–	0 – 4,572	–

Unit: feet

Screen size (inch, diagonal)	Distance to screen (L)										Height from the edge of screen to center of lens (H)	
	Zoom									Fixed-focus		
	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*
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.			
50	5.2	7.5	7.1	9.6	9.1	14.4	14.2	21.7	21.2	34.1	3.1	0.0 – 1.3	1.3
60	6.2	9.1	8.6	11.6	10.9	17.4	17.2	26.1	25.6	41.1	3.8	0.0 – 1.5	1.5
70	7.3	10.6	10.1	13.6	12.8	20.3	20.1	30.5	30.1	48.1	4.4	0.0 – 1.8	1.8
80	8.4	12.1	11.5	15.5	14.6	23.2	23.0	35.0	34.5	55.1	5.1	0.0 – 2.1	2.1
90	9.4	13.7	13.0	17.5	16.5	26.2	25.9	39.4	38.9	62.1	5.7	0.0 – 2.3	2.3
100	10.5	15.2	14.5	19.5	18.3	29.1	28.9	43.8	43.3	69.1	6.4	0.0 – 2.5	2.5
120	12.6	18.3	17.4	23.4	22.1	35.0	34.7	52.6	52.2	83.1	7.7	0.0 – 3.0	3.0
150	15.8	22.9	21.8	29.3	27.6	43.7	43.5	65.9	65.5	104.1	9.6	0.0 – 3.8	3.8
200	21.1	30.5	29.2	39.1	36.9	58.4	58.1	88.0	87.6	139.1	12.9	0.0 – 5.0	5.0
250	26.4	38.2	36.5	48.9	46.2	73.0	72.7	110.1	109.7	174.1	–	0.0 – 6.3	–
300	31.7	45.9	43.8	58.7	55.4	87.7	87.3	132.2	131.9	209.0	–	0.0 – 7.5	–
400	42.4	61.2	58.5	78.4	74.0	117.0	116.6	176.4	176.2	279.0	–	0.0 – 10.0	–
500	53.0	76.5	73.2	98.0	92.5	146.3	145.8	220.6	220.4	349.0	–	0.0 – 12.5	–
600	63.6	91.8	87.8	117.7	111.1	175.6	175.1	264.8	264.7	419.0	–	0.0 – 15.0	–

- **The value for L (distance to screen) varies slightly 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.**
- **The brightness varies depending on the zoom setting.**

DLP™ Projectors

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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-DLE150	minimum	L (mm) = (diagonal screen size in inches) x 28.6 – 54.0
	maximum	L (mm) = (diagonal screen size in inches) x 41.3 – 49.8
Supplied lens	minimum	L (mm) = (diagonal screen size in inches) x 39.5 – 74.5
	maximum	L (mm) = (diagonal screen size in inches) x 52.9 – 73.4
ET-DLE250	minimum	L (mm) = (diagonal screen size in inches) x 50.0 – 80.0
	maximum	L (mm) = (diagonal screen size in inches) x 78.9 – 79.2
ET-DLE350	minimum	L (mm) = (diagonal screen size in inches) x 78.7 – 135.1
	maximum	L (mm) = (diagonal screen size in inches) x 119.0 – 134.6
ET-DLE450	minimum	L (mm) = (diagonal screen size in inches) x 119.2 – 301.7
	maximum	L (mm) = (diagonal screen size in inches) x 188.5 – 299.1
ET-DLE055	(fixed focus)	L (mm) = (diagonal screen size in inches) x 17.5 – 47.6

Aspect ratio 16:9

ET-DLE150	minimum	L (mm) = (diagonal screen size in inches) x 29.4 – 54.0
	maximum	L (mm) = (diagonal screen size in inches) x 42.4 – 49.8
Supplied lens	minimum	L (mm) = (diagonal screen size in inches) x 40.6 – 74.5
	maximum	L (mm) = (diagonal screen size in inches) x 54.4 – 73.4
ET-DLE250	minimum	L (mm) = (diagonal screen size in inches) x 51.3 – 80.0
	maximum	L (mm) = (diagonal screen size in inches) x 81.1 – 79.2
ET-DLE350	minimum	L (mm) = (diagonal screen size in inches) x 80.9 – 135.1
	maximum	L (mm) = (diagonal screen size in inches) x 122.3 – 134.6
ET-DLE450	minimum	L (mm) = (diagonal screen size in inches) x 122.5 – 301.7
	maximum	L (mm) = (diagonal screen size in inches) x 193.7 – 299.1
ET-DLE055	(fixed focus)	L (mm) = (diagonal screen size in inches) x 18.0 – 47.6

Aspect ratio 4:3

ET-DLE150	minimum	L (mm) = (diagonal screen size in inches) x 32.4 – 54.0
	maximum	L (mm) = (diagonal screen size in inches) x 46.7 – 49.8
Supplied lens	minimum	L (mm) = (diagonal screen size in inches) x 44.7 – 74.5
	maximum	L (mm) = (diagonal screen size in inches) x 59.9 – 73.4
ET-DLE250	minimum	L (mm) = (diagonal screen size in inches) x 56.5 – 80.0
	maximum	L (mm) = (diagonal screen size in inches) x 89.3 – 79.2
ET-DLE350	minimum	L (mm) = (diagonal screen size in inches) x 89.1 – 135.1
	maximum	L (mm) = (diagonal screen size in inches) x 134.7 – 134.6
ET-DLE450	minimum	L (mm) = (diagonal screen size in inches) x 135.0 – 301.7
	maximum	L (mm) = (diagonal screen size in inches) x 213.3 – 299.1
ET-DLE055	(fixed focus)	L (mm) = (diagonal screen size in inches) x 19.8 – 47.6

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

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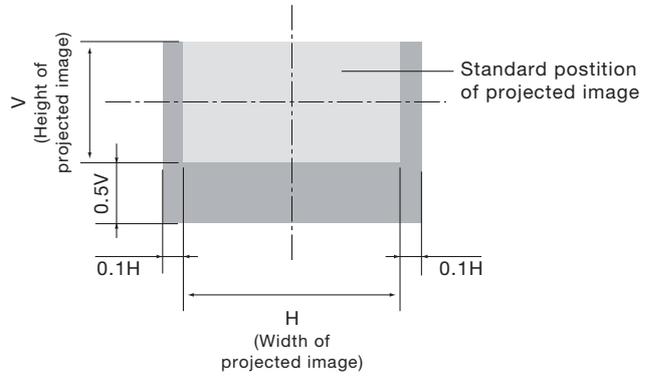
Shift range

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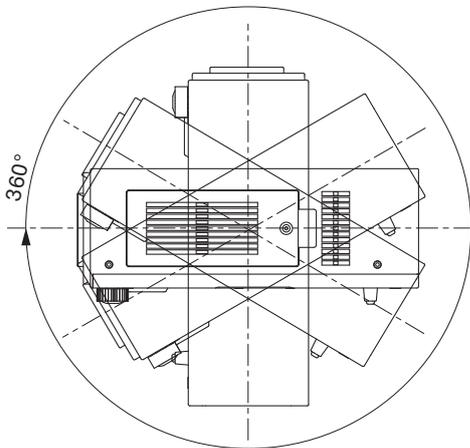
• Floor mount

H
(Width of
projected image)

0.1H

0.1H

0.5V

V
(Height of
projected image)

Standard postition
of projected image

• Ceiling mount

V
(Height of
projected image)

Standard postition
of projected image

0.5V

0.1H

0.1H

H
(Width of
projected image)

Installable angle

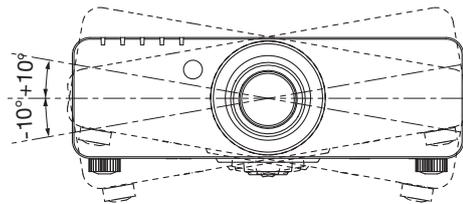Install the projector at an angle within the range shown below.

• 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 ±10°.

360°

−10°~+10°

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List of compatible signals

This projector supports RGB signals with horizontal frequencies of 15 to 91 kHz, vertical frequencies of 50 to 85 Hz and up to 162 MHz dot clock.

NOTE: The native resolution of this projector is 1,920 x 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)[1]	Scanning frequency H (kHz)	V (kHz)	Dot clock frequency (MHz)	Picture quality[2]	Format
NTSC/NTSC4.43/PAL-M/PAL60	720 x 480i	15.7	59.9	–	A	VIDEO/S-VIDEO
PAL/PAL-N/SECAM	720 x 576i	15.6	50.0	–	A	
480i(525i)	720 x 480i	15.7	59.9	13.5	A	YPBPR /RGB
576i(625i)	720 x 576i	15.6	50.0	13.5	A	
480p(525p)	720 x 483	31.5	59.9	27.0	A	YPBPR /RGB/DVI
576p(625p)	720 x 576	31.3	50.0	27.0	A	
720/60p	1,280 x 720	45.0	60.0	74.3	A	
720/50p		37.5	50.0	74.3	A	
1080/60i	1,920 x 1,080i	33.8	60.0	74.3	AA	
1080/50i		28.1	50.0	74.3	AA	
1080/24p	1,920 x 1,080	27.0	24.0	74.3	AA	
1080/24sF	1,920 x 1,080i	27.0	24.0	74.3	AA	
1080/25p	1,920 x 1,080	28.1	50.0	74.3	AA	
1080/30p		33.8	60.0	74.3	AA	
1080/60p		67.5	60.0	148.5	AA	
1080/50p		56.3	50.0	148.5	AA	
VGA400	640 x 400	31.5	70.1	25.2	A	RGB/DVI
		37.9	85.1	31.5	A	
VGA480	640 x 480	31.5	59.9	25.2	A	
		35.0	66.7	30.2	A	
		37.9	72.8	31.5	A	
		37.5	75.0	31.5	A	
		43.3	85.0	36.0	A	
SVGA	800 x 600	35.2	56.3	36.0	A	
		37.9	60.3	40.0	A	
		48.1	72.2	50.0	A	
		46.9	75.0	49.5	A	
		53.7	85.1	56.3	A	
MAC16	832 x 624	49.7	74.6	57.3	A	
XGA	1,024 x 768	39.6	50.0	51.9	A	
		48.4	60.0	65.0	A	
		56.5	70.1	75.0	A	
		60.0	75.0	78.8	A	
		65.5	81.6	86.0	A	
		68.7	85.0	94.5	A	
		80.0	100.0	105.0	A	
		96.7	120.0	130.0	A	
MXGA	1,152 x 864	64.0	71.2	94.2	A	
		67.5	74.9	108.0	A	
		76.7	85.0	121.5	A	
MAC21	1,152 x 870	68.7	75.1	100.0	A	
1280 x 768	1,280 x 768	39.6	49.9	65.3	A	
		47.8	59.9	79.5	A	
1280 x 800	1,280 x 800	41.3	50.0	68.0	A	
		49.7	59.8	83.5	A	
MSXGA	1,280 x 960	60.0	60.0	108.0	A	
SXGA	1,280 x 1,024	64.0	60.0	108.0	A	
		80.0	75.0	135.0	A	
		91.1	85.0	157.5	A	
SXGA+	1,400 x 1,050	64.0	60.0	108.0	A	
		82.2	75.0	155.9	A	
WXGA+	1,440 x 900	55.9	59.9	106.5	A	
UXGA	1,600 x 1,200	75.0	60.0	162.0	A	
WSXGA+	1,680 x 1,050	65.3	60.0	146.3	A	
1920 x 1080	1,920 x 1,080	66.6	59.9	138.5	AA	
WUXGA[3]	1,920 x 1,200	74.0	60.0	154.0	AA	

1. The "i" appearing after the resolution indicates an interlaced signal.
2. The following symbols are used to indicate picture quality.
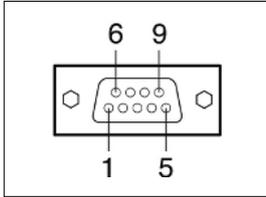   - AA   Maximum picture quality can be obtained.
   - A   Signals are converted by the image processing circuit before picture is projected.
3. WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

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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.
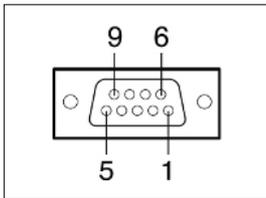
Pin assignments and signal names

D-sub 9-pin (female)
Serial input

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

Pin assignments and signal names

D-sub 9-pin (male)
Serial output

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

Communication conditions (factory setting)

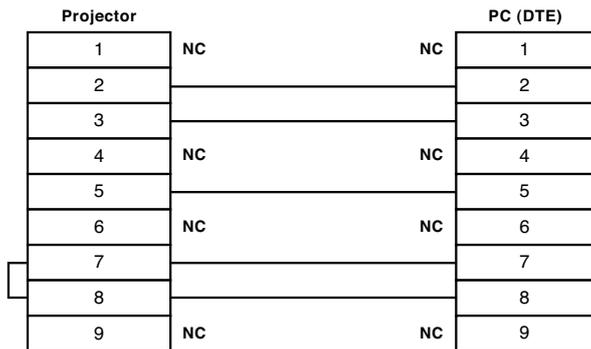|	
Signal level	RS-232C-compliant
Synchronization method	Start-stop synchronization
Baud rate	9,600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

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.

STX	A D	I1 I2	;	C1 C2 C3	:	P1 P2 ... Pn	ETX

Start
(1 byte)

ID 2 characters
(2 bytes)

Semicolon
(1 byte)

Command
(3 bytes)
(Control and/or query commands)

Colon
(1 byte)

Parameters
(undefined length)

End
(1 byte)

ID designator:
01 to 64: Address number
0A to 0Z: Group ID
ZZ: All units (ID ALL)

CAUTIION
• **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.**

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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
7					7
8					8
9	NC			NC	9

Control commands

Command : Parameter	Function		Callback
`PON`	POWER (STANDBY)	Standby power on	`PON`
`POF`		Standby power off	`POF`
`IIS:SDI`	INPUT SELECT	SDI	`IIS:SDI`
`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-VideoAUX	`IIS:SVD`
`LPM:0`		Dual (two lamps)	`LPM:0`
`LPM:1`	LAMP SELECT	Lamp 1	`LPM:1`
`LPM:2`		Lamp 2	`LPM:2`
`LPM:3`		Single lamp	`LPM:3`
`OSH:0`	SHUTTER	Shutter on	`OSH:0`
`OSH:1`		Shutter off	`OSH:1`
`OFZ:0`	FREEZE	Off	`OFZ:0`
`OFZ:1`		On	`OFZ:1`
`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`
`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:1`	COLOR TEMPERATURE	Middle	`OTE:1`
`OTE:2`		High	`OTE:2`
`OTE:4`		User	`OTE:4`
`OTE:10`		Default	`OTE:10`
`TSD:y1y2y3y4m1m2d1d2w`	DATE	Date setting	`TSD:y1y2y3y4m1m2d1d2w`
`TST:h1h2m1m2s1s2`	TIME	Time setting	`TST:h1h2m1m2s1s2`
`OOS:0`	ON SCREEN	On-screen display on	`OOS:0`
`OOS:1`		On-screen display off	`OOS: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.**
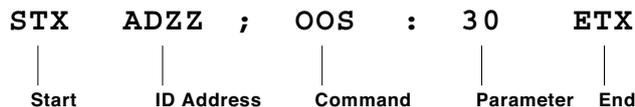
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Status asking commands

Command:Parameter	Function	Callback	Description
QPW	Main power status	000	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
		DVI	DVI
		RG1	RGB 1
		RG2	RGB 2
		VID	Video
QOS	On-screen display status	SVD	S-Video
		0	Off
QST	Projector run time	1	On
Q$L:1	Lamp 1 run time	p1p2p3p4p5	00000h−99999h
Q$L:2	Lamp 2 run time	p1p2p3p4	0000h−9999h
QSL	Lamp operation mode status	p1p2p3p4	0000h−9999h
		0	Dual
		1	Single
		2	Lamp 1
QLP	Lamp power mode status	3	Lamp 2
		0	High
QPM	Picture mode status	1	Low
		NAT	Natural
		STD	Standard
		DYN	dynamic
		CIN	Cinema
QVX:DLVI0	System daylight view status	GRA	Graphic
		DLVI0=+00000	Off
		DLVI0=+00001	1
		DLVI0=+00002	2
QTM:0	Temperature status	DLVI0=+00003	3
QTM:1		p1p2p3p4/p5p6p7p8 $^{(*1)}$	p0 = Intake air
QTM:2			p1 = Exhaust air
QGD	Date setting status		p2 = DLP™ chip
QGT	Time setting status	y1y2y3y4m1m2d1d2w	yyyymmdd (day of week) $^{(*2)}$
		h1h2m1m2s1s2	hhmmss $^{(*3)}$

*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).

Command example

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

STX   ADZZ ;   OOS   :   30   ETX

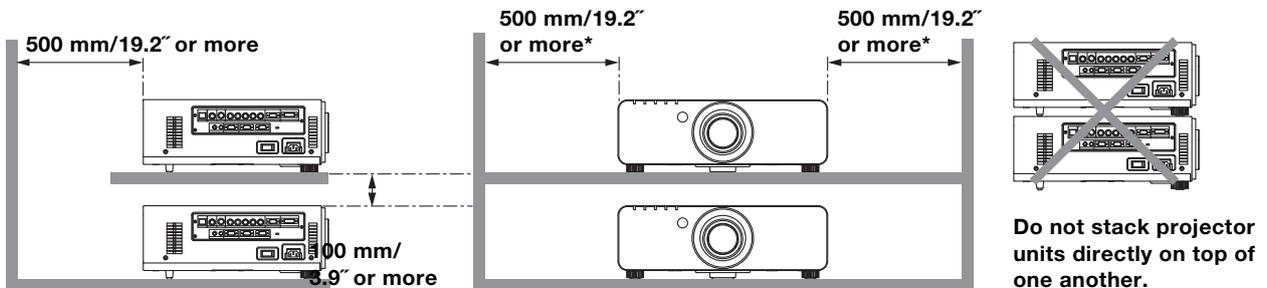**Start**   **ID Address**   **Command**   **Parameter**   **End**

NOTE: When sending commands without parameters, a colon (:) is not necessary.
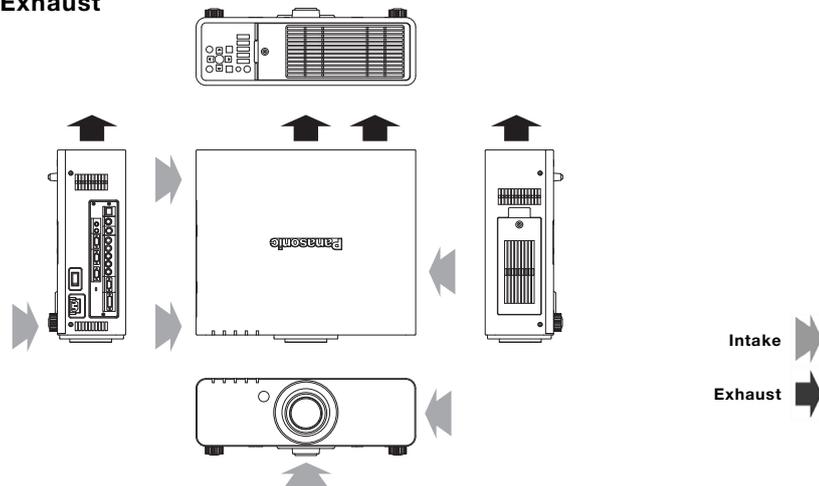
Notes on Projector Placement and Operation

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 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. If the projector is placed in a box or enclosure, ensure the temperature of the air surrounding the projector is between 0°C/32°F and 40°C/104°F*. Also make sure 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.
   * Even when the ambient temperature near the intake opening is 40°C/104°F or lower, an accumulation of hot air inside the cabinet may cause the protective circuit to activate and shut down the projector. Please give ample consideration to the design with regard to ambient temperature conditions.

500 mm/19.2″ or more

500 mm/19.2″ or more*

500 mm/19.2″ or more*

100 mm/ 3.9″ or more

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

Direction of Air Intake and Exhaust

Intake

Exhaust

Operating the Projector Continuously

1. If the projector is to be operated continuously 24 hours a day, use the dual-lamp optical system's alternating lamp operation (lamp changer) 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.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

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