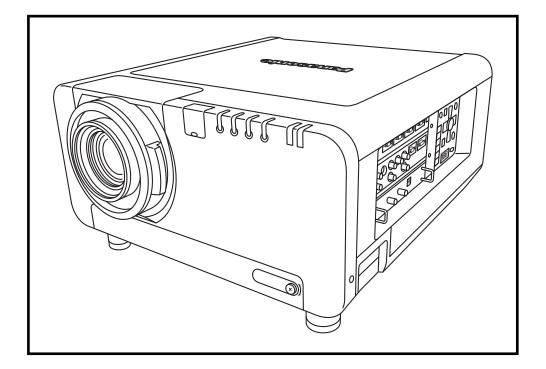
Panasonic ideas for life

Spec File



Product Number: PT-DW10000

Product Name: 3-Chip DLPTM Projector

PT-**DW10000**

Specifications

Main Unit

Lens:

Power supply: North America: 120 V AC, 15 A, 60 Hz

Europe, Asia 220-240 V AC, 15 A, 50/60 Hz

Power consumption:

1,450 W (25 W in standby mode with fan stopped)

DLP™ chip: Panel size: 0.95″ diagonal (16:9 aspect ratio)

Display method: DLPTM device x 3 (R, G, B), DLPTM projection system Pixels: $2,073,600 (1,920 \times 1,080) \times 3$, total of 6,220,800 pixels

Optional powered zoom/focus lenses

Lamp: 250 W UHM lamp x 4

Screen size: 70-600 inches, 16:9 aspect ratio

(70-300 inches with the ET-D75LE5, 16:9 aspect ratio)

Brightness*1: 10,000 lumens (four-lamp operation mode)

Center-to-corner uniformity*1: 90%

Contrast*1: 5,000:1 (full on/full off, in dynamic iris 3 mode)

Resolution: 1,920 x 1,080 pixels (Input signals that exceed this resolution will be

converted to 1,920 x 1,080 pixels.)

Scanning frequency: RGB: Horizontal: 15-100 kHz, Vertical: 24-120 Hz*2,

Dot clock: 20-162 MHz

YPBPR (YCBCR): 480i: fh 15.75 kHz; fv 60 Hz, 576i: fh 15.63 kHz; fv 50 Hz,

480p: fh 31.50 kHz; fv 60 Hz, 576p: fh 31.25 kHz; fv 50 Hz, 720/60p: fh 45.00 kHz; fV 60 Hz, 720/50p: fh 37.5 kHz; fV 50 Hz, 1035/60i: fh 33.75 kHz; fv 60 Hz, 1080/60i: fh 33.75 kHz; fv 60 Hz, 1080/25p: 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 kHz; fv 48 Hz, 1080/30p: fh 33.75 kHz; fv 30 Hz, 1080/60p: fh 67.5 kHz; fv 60 Hz,

1080/50p: fH 56.25 kHz; fv 50 Hz

S-Video/Video: Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz,

(NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM)

Optical axis shift*: Vertical: ±60% (±50% with the ET-D75LE6) from center of screen, powered

Horizontal: ±20% (±15% with the ET-D75LE6) from center of screen, powered

Keystone correction range: Vertical: ±40° (±22° with the ET-D75LE5, ±28° wih the ET-D75LE6)

Installation: Ceiling/floor, front/rear

Terminals: DVI-D IN: DVI-D 24-pin x 1, DVI 1.0 compliant, HDCP compatible, single link

RGB1 IN: BNC x 5

R, G, B: G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms,

B, R: 0.7 Vp-p, 75 ohms

HD, VD, SYNC: 1.4-5.0 Vp-p, positive/negative automatic

Y, PB, PR Y: 1.0 p-p, 75 ohms (incl. sync signal), PB/PR: 0.7 Vp-p, 75 ohms

0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms

NOTE: HD/SYNC, and VD terminals do not accept 3-value direct sync signals.

RGB2 IN: D-sub HD 15-pin x 1

R, G, B: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms

HD, VD, SYNC: TTL, high impedance, positive/negative automatic

VD: 1.4-5.0 Vp-p, positive/negative automatic, 75 ohms

Y, PB, PR Y: 1.0 p-p, 75 ohms (incl. sync signal), PB/PR: 0.7 Vp-p, 75 ohms

NOTE: HD/SYNC, and VD terminals do not accept 3-value direct sync signals.

VIDEO IN: BNC x 1, 1.0 Vp-p, 75 ohms

PT-**DW10000**

VIDEO OUT: BNC x 1, 1.0 Vp-p, active through

S-VIDEO IN: Mini DIN 4-pin x 1

Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms (S1 signal compatible)

LAN: RJ-45 x 1, 10Base-T/100Base-TX, compatible with PJLink™ (class 1)
SERIAL IN*4: D-sub 9-pin (female) x 2, for external control (RS-232C/RS-422 compli-

ant)

SERIAL OUT*4: D-sub 9-pin (male) x 1, for link control (RS-422 compliant)

REMOTE 1 IN: M3 jack x 1 for wired remote control

REMOTE 1 OUT: M3 jack x 1 for link control

REMOTE 2 IN: D-sub 9-pin x 1 for external control (parallel)

Optional board slot*5:

With ET-MD77SD1 installed: SERIAL IN: BNC x 1, SD-SDI signal (YCBCR 4:2:2 10-bit):

SMPTE 259M compliant: 480i, 576i

SERIAL OUT: BNC x 1, active through

With ET-MD77SD3 installed: SERIAL IN: BNC x 1

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

Single-link HD-SDI signal (YPBPR 4:2:2 10-bit):

SMPTE 292M compiant: 720/50p, 720/60p, 1080/50i, 1080/60i,

1080/25p, 1080/24p, 1080/24sF, 1080/30p

SERIAL OUT: BNC x 1, active through

With ET-MD100SD4 installed: Link A/Link B IN: BNC x 1 for each

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

Single-link HD-SDI signal (YPBPR 4:2:2 10-bit):

SMPTE 292M compiant: 720/50p, 720/60p, 1080/50i, 1080/60i,

1080/25p, 1080/24p, 1080/24sF, 1080/30p Dual-link HD-SDI signal (RGB 4:4:4 12-bit/10-bit):

SMPTE 372M compiant: 1920 x 1080/50i, 1920 x 1080/60i, 1920 x 1080/25p, 1920 x 1080/24p, 1920 x 1080/24sF, 1920 x 1080/30p

Dual-link HD-SDI signal (X'Y'Z' 4:4:4 12-bit): 2048 x 1080/24p, 2048 x 1080/24sF

With ET-MD77DV installed: DVI-D IN: DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, single link

EDID1: 480p, 576p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 720/60p, 720/50p

EDID2: Compatible with non-interlaced signals only,

Effective resolution: VGA (640 x 480) - U-XGA (1,600 x 1,200)

Dot clock: 25-162 MHz

NOTE: LAN terminals on the optional board can not be used. Use the LAN terminal

on the projector.

Power cord: 3 m/9.8°

Cabinet material: Moulded plastic

Dimensions (W x H x D): 578 x 320 x 643 mm (22-3/4" x 12-19/32" x 25-5/16") (without lens)

Weight*6: Approx. 32 kg (70.5 lbs) (without lens)

Operating temperature*7: 0°-45°C (32°-113°F)

Operating humidity: 10%-80% (no condensation)

PT-**DW10000**

Remote Control Unit

Number of functions: 35 keys, 39 functions

Power supply: 3 V DC (AA battery x 2)

Operation range*8: Approx. 30 m when operated from directly signal receptor

Dimensions (W x H x D): 51 x 22.7 x 176 mm (2" x 7/8" x 6-15/16")

Weight: 134 g (4.7 oz) (including batteries)

Supplied Accessories Power cord

Wireless/wired remote control unit Batteries for remote control (x 2)

Eye bolts (x 4) Wire rope

Optional Accessories

ET-D75LE6 Zoom lens (0.9-1.1:1): ET-D75LE1 Zoom lens (1.4-1.8:1): Zoom lens (1.8-2.8:1): ET-D75LE2 Zoom lens (2.8-4.6:1): ET-D75LE3 ET-D75LE4 Zoom lens (4.6-7.4:1): Zoom lens (7.3-13.8:1): ET-D75LE8 Fixed-focus lens (0.7:1): ET-D75LE5 SD-SDI board: ET-MD77SD1 HD/SD-SDI board: ET-MD77SD3 Dual link HD-SDI board: ET-MD100SD4 DVI-D board: ET-MD77DV

Replacement lamp unit ET-LAD10000 (one unit)

ET-LAD10000F (a set of four lamps)

Ceiling mount bracket for high ceilings ET-PKD100H
Ceiling mount bracket for low ceilings ET-PKD100S
Frame ET-PFD100
Carrying handle ET-HAD100
Smoke cut filter ET-SFD100

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

- *1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- 2 Smooth image reproduction may not be possible when a motion video signal with a vertical frequency other than 50 or 60 Hz is input.
- *3 Shift range is limited during simultaneous horizontal and vertical shifting.
- *4 Contact your dealers for details when the control using RS-232C or RS-422 is required.
- *5 The LAN terminal on the optional board will be inactivated after installation. Use the LAN terminal on the main unit.
- *6 Average value. May differ depending on models.
- *7 Operating temperature is 0°C-40°C (32°F-104°F) when the fan control is set to "HIGHLAND" (for over 1,400 m to 2,700 m above sea level).
- *8 Operation range differs depending on environments.

PT-**DW10000**

Shape of the plug receptacle

120V AC, 20 A



220-240V AC, 13 A/15 A





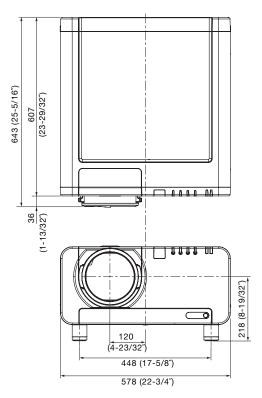
220-240V AC, 16 A



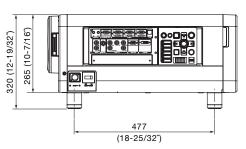
Note: Be sure to use the power plug adaptor cord supplied with the projector.

The supplied power plug adaptor can be used with the PT-DW10000 only.

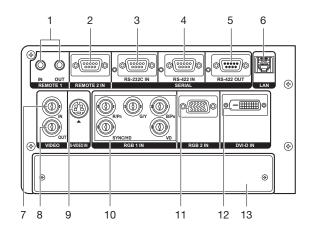
Dimensions



 $\mbox{unit:mm (inch)} \\ \mbox{NOTE: This illustration is not drawn to scale.} \\$



Terminals

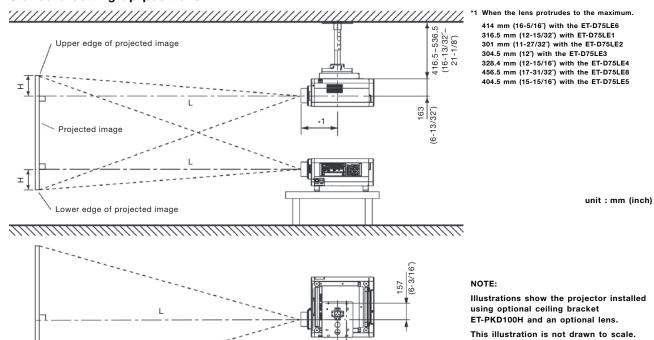


- 1 Remote 1 input/output
- 2 Remote 2 input
- 3 Serial input (RS-232C)
- 4 Serial input (RS-422)
- 5 Serial output (RS-422)
- 6 LAN connector (10Base-T/100Base-TX)
- 7 Video input
- 8 Video output
- 9 S-Video input
- 10 RGB 1 (YPBPR) input
- 11 RGB 2 Input
- 12 DVI-D input
- 13 Optional board slot

Projected image

PT-**DW10000**

Standard setting-up positions



Projection distance (screen aspect ratio 16:9)

	Distance to screen									Height from the edge of screen to center of lens (H)						
	Zoom Fixed-focus															
Lens (Throw ratio) Screen	ET-D75LE6 Zoom lens (0.9-1.1:1)		Zoon	75LE1 n lens -1.8:1)	Zoor	775LE2 n lens -2.8:1)	ET-D 7 Zoom (2.8–	lens	Zoon	75LE4 n lens -7.4:1)	Zoon	75LE8 1 lens 13.8:1)	ET-D75LE5 Fixed-focus lens (0.7:1)	Zoor	n lenses	Fixed- focus lens
size (inch, _ diagonal)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		Zoom lenses except ET-D75LE6	ET-D75LE6	
70	1,393	1,662	2,072	2,768	2,801	4,215	4,226	7,094	7,101	11,374	11,091	21,142	1,022	-87 - 959	0 - 872	436
	<i>4.6</i>	5.5	6.8	9.1	9.2	<i>13.</i> 8	13.9	23.3	23.3	37.3	<i>36.4</i>	69.4	3.35	-0.29 - 3.15	0 - 2.86	1.43
80	1,600	1,910	2,379	3,178	3,212	4,832	4,843	8,125	8,132	13,013	12,730	24,214	1,180	-100 -1,096	0 - 996	498
	5.2	6.3	7.8	10.4	10.5	15.9	15.9	<i>26.7</i>	26.7	<i>42.7</i>	<i>41.8</i>	79.4	3.87	-0.33 - 3.60	0 - 3.27	1.63
90	1,807	2,158	2,686	3,588	3,624	5,449	5,460	9,156	9,163	14,652	14,370	27,286	1,338	-112 -1,233	0 -1,121	561
	5.9	7.1	8.8	11.8	11.9	<i>17.9</i>	17.9	<i>30.0</i>	<i>30.1</i>	48.1	<i>47.1</i>	89.5	<i>4.3</i> 9	-0.37 - 4.05	0 - 3.68	1.84
100	2,014	2,406	2,992	3,998	4,035	6,067	6,077	10,187	10,193	16,292	16,009	30,358	1,496	-125 –1,370	0 -1,245	685
	6.6	7.9	9.8	13.1	13.2	19.9	19.9	<i>33.4</i>	<i>33.4</i>	<i>53.5</i>	<i>52.5</i>	99.6	<i>4.91</i>	-0.41 – 4.49	0 - 4.08	2.25
120	2,428	2,902	3,606	4,817	4,858	7,301	7,312	12,248	12,255	19,570	19,288	36,501	1,812	-149 -1,644	0 –1,494	747
	8.0	9.5	11.8	<i>15.8</i>	15.9	<i>24.0</i>	<i>24.0</i>	<i>40.2</i>	<i>40.2</i>	<i>64.2</i>	<i>63.3</i>	119.8	<i>5.94</i>	-0.49 - 5.39	0 – 4.90	2.45
150	3,049	3,646	4,526	6,047	6,093	9,153	9,164	15,341	15,348	24,488	24,207	45,717	2,286	-187 -2,055	0 -1,868	934
	10.0	12.0	<i>14.</i> 8	19.8	20.0	<i>30.0</i>	<i>30.0</i>	<i>50.3</i>	<i>50.4</i>	80.3	<i>7</i> 9. <i>4</i>	<i>150.0</i>	7.50	-0.61 - 6.74	0 - 6.13	3.06
200	4,084	4,886	6,060	8,096	8,150	12,240	12,250	20,496	20,502	32,685	32,404	61,076	3,076	-249 -2,740	0 -2,491	1,245
	13.4	16.0	19.9	<i>26.6</i>	<i>26.7</i>	<i>40.2</i>	<i>40.2</i>	<i>67.2</i>	<i>67.3</i>	107.2	106.3	200.4	10.09	-0.82 - 8.99	0 - 8.17	<i>4.0</i> 8
250	5,119	6,126	7,594	10,145	10,208	15,326	15,337	25,650	25,657	40,881	40,602	76,435	3,866	-311 -3,424	0 -3,113	1,557
	<i>16.8</i>	<i>20.4</i>	<i>24.</i> 9	<i>33.3</i>	<i>33.5</i>	<i>50.3</i>	<i>50.3</i>	<i>84.2</i>	<i>84.2</i>	<i>134.1</i>	<i>133.2</i>	250.8	12.68	-1.02 - 11.23	0 - 10.21	<i>5.11</i>
300	6,154	7,366	9,128	12,194	12,265	18,413	18,423	30,805	30,811	49,078	48,799	91,794	4,656	-374 -4,109	0 -3,736	1,867
	20.2	<i>24.2</i>	<i>2</i> 9.9	<i>40.0</i>	<i>40.2</i>	<i>60.4</i>	<i>60.4</i>	<i>101.1</i>	<i>101.1</i>	161.0	160.1	<i>301.2</i>	15.28	-1.23 - 13.48	0 - 12.26	<i>6.13</i>
400	8,224 27.0	9,846 <i>32.3</i>	12,196 <i>40.0</i>	16,292 <i>53.5</i>	16,380 <i>53.7</i>	24,586 <i>80.7</i>	24,596 <i>80.7</i>	41,114 <i>134.</i> 9	41,120 <i>134.</i> 9	65,471 214.8	65,194 <i>213.9</i>	122,512 <i>401.</i> 9	- -	-498 -5,479 -1.63 - 17.98	0 -4,981 0 - 16.34	-
500	10,294 33.8	12,326 <i>40.4</i>	15,264 <i>50.0</i>	20,390 66.9	20,495 <i>67.2</i>	30,759 <i>100.9</i>	30,769 100.9	51,423 <i>168.7</i>	51,429 <i>168.7</i>	81,864 268.6	81,589 <i>267.7</i>	153,230 <i>502.7</i>	- -	-623 -6,849 -2.04 - 22.47	0 -6,226 0 - 20.43	-
600	12,364 <i>40.6</i>	14,806 <i>48.6</i>	18,332 <i>60.1</i>	24,488 <i>80.3</i>	24,610 <i>80.7</i>	36,932 121.2	36,942 121.2	61,732 202.5	61,738 202.6	98,257 322.4	97,984 321.5	183,948 <i>603.5</i>	-	-747 -8,219 -2.45 - 26.97	0 -7,472 0 - 24.51	-

• The figures in the above table may vary by approximately ±5% depending on the projection lens that is used.

. When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.

• At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

millimeters feet

Calculation of the projection distance

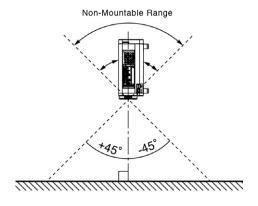
For a screen size different from the above, use the equation below to calculate the projection distance.

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

- The figures in the above table may vary by approximately ±5% depending on the projection lens that is used.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

Mounting and Operation Precaution

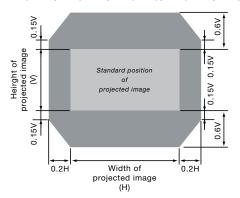
Do not mount the projector so that it angles downward from the vertical (including downward angles of $\pm 45^{\circ}$, because this would adversely affect its lamp cooling ability. For detailed information, please consult your sales representative.



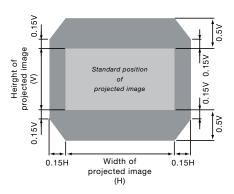
Shift range

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

ET-D75LE1/D75LE2/D75LE3/D75LE4/D75LE8



ET-D75LE6



• Because the ETD75LE5 is a fixed short-throw lens, the lens shift function cannot be used with it.

PT-**DW10000**

List of compatible signals

This projector supports RGB signals with horizontal frequencies of 15 to 100 kHz, vertical frequencies of 24 to 120 Hz and dot clock frequencies of 20 MHz to 162 MHz.

NOTE: The native resolution of this projector is 1,920 x 1,080 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

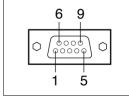
NTSC/NTSC4.43/PAL-M/PAL60	Display mode	Display resolution (dots) ¹	Scanning H (kHz)	g frequency V (kHz)	Dot clock frequency (MHz)	Format
PALPAL-N/SECAM	NTSC/NTSC4 43/PAL-M/PAL60	, ,	. ,	` ′	-	VIDEO/S-VIDEO
S251 (480) 720 x 4801 15.7 59.9 13.5 YPePk/RGB 625 (576) 720 x 5761 15.6 50.0 13.5 S526 (1400) 720 x 483 31.5 59.9 27.0 YPePk/RGB/DVI (ED 625 (576p) 720 x 576 31.3 50.0 27.0 750 (720)/50p 1,280 x 720 45.0 60.0 74.3 750 (720)/50p 1,280 x 720 45.0 60.0 74.3 750 (720)/50p 1,280 x 720 45.0 60.0 74.3 750 (720)/50p 1,280 x 1,080 27.0 24.0 74.3 74.3 1125 (1080)/50p 1,280 x 1,080 27.0 24.0 74.3 74.3 74.1 74.3 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td>					_	_
\$251 (\$756) 720 x 576						YPBPR/RGB
S25p (480p) 720 x 483 31.5 59.9 27.0 YPaPw/RGB/DVI (ED 625p (57ep) 720 x 576 31.3 50.0 27.0 720 x 576 31.3 50.0 27.0 720 x 576 31.28 x 720 45.0 60.0 74.3 750 (720)/56p 1,280 x 720 45.0 60.0 74.3 74.3 750 (720)/56p 1,280 x 1080i 33.8 60.0 74.3 74.2 74.3 74.3 74.3 74.2 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 74.3 7	, ,					_ 11 5. 1,110 5
625p (575p) 720 x 576 31.3 50.0 27.0 750 (720)/60p 1,280 x 720 45.0 60.0 74.3 750 (720)/60p 1,280 x 720 37.5 50.0 74.3 1125 (1080)/60i 1,920 x 1,080i 33.8 60.0 74.3 1125 (1080)/24p 1,920 x 1,080i 27.0 24.0 74.3 1125 (1080)/24p 1,920 x 1,080i 27.0 24.0 74.3 1125 (1080)/25p 1,920 x 1,080i 27.0 24.0 74.3 1125 (1080)/30p 1,920 x 1,080i 27.0 24.0 74.3 1125 (1080)/30p 640 x 400 31.5 50.0 14.3 1125 (1080)/50p 640 x 400 31.5 70.1 25.2 RGB/DVI (EDID2) VGA85 640 x 400 31.5 50.0 148.5 149.0 VGA670 640 x 400 37.9 85.1 31.5 RGB/DVI (EDID2) VGA685 800 x 600 36.0 66.7 30.2 RGB/DVI (EDID2) VGA673 <	, ,					YPRPR/RGB/DVI (FDID1
1,280 x 720						
750 (720)/S0p 1,280 x 720 37.5 50.0 74.3 1125 (1080)/S01 1,920 x 1,0801 28.1 50.0 74.3 1125 (1080)/S01 28.1 50.0 74.3 1125 (1080)/24p 1,920 x 1,080 27.0 24.0 74.3 1125 (1080)/25p 1,920 x 1,080 27.0 24.0 74.3 1125 (1080)/30p 1,920 x 1,080 27.0 24.0 74.3 1125 (1080)/30p 640 x 400 31.5 50.0 74.3 1125 (1080)/50p 640 x 400 31.5 50.0 148.5 VGA70 640 x 400 31.5 50.0 148.5 VGA66 640 x 400 31.5 59.9 22.2 RGB/DVI (EDID2) VGA66 640 x 400 31.5 59.9 22.2 RGB/DVI (EDID2) VGA67 640 x 400 31.5 59.9 22.2 RGB/DVI (EDID2) VGA66 70.0 43.3 85.0 36.0 AG.7 VGA73 3.2 3.0 31.5						_
1125 (1080)/901	, , ,					_
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<u> </u>		. ,400 x 1,030				_
5XGA+75 62.2 75.0 155.9		-				_
UXGA60 1,600 x 1,200 75.0 60.0 162.0		1 600 × 1 000				-

^{1.} The "i" appearing after the resolution indicates an interlaced signal. Line flicker occurs when an interlaced signal is input.

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.

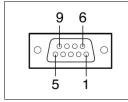
Pin assignments and signal names



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	-	Connected internally	9	-	NC
5	GND	Ground			

Pin assignments and signal names



D-sub 9-pin (male) Serial output

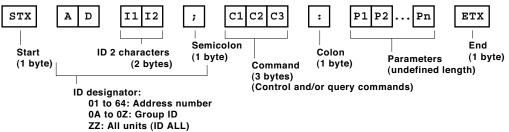
No.	Signal name	Description	No.	Signal name	Description
1	_	NC	6	-	NC
2	RXD	Receive data	7	RTS	Connected internally
3	TXD	Send data	8	CTS	Connected internally
4	_	Connected internally	9	-	NC
5	GND	Ground			

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.



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.

PT-**DW10000**

3-Chip DLP™ Projector

Cable specifications

	Projector	_	PC (DTE)
	1	NC NC	1
	2		2
	3		- 3
	4	NC NC	4
	5		5
	6	NC NC	6
П	7		7
Ц	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:RG1	INPUT SELECT	RGB 1	IIS:RG1
IIS:RG2		RGB 2	IIS:RG2
IIS:VID		Video	IIS:VID
IIS:SVD		S-Video	IIS:SVD
IIS:DVI		DVI	IIS:DVI
IIS: AUX		AUX	IIS:AUX
LPM:0	LAMP SELECT	Quad (four lamps)	LPM:0
LPM:1		Lamp 1 + 4	LPM:1
LPM:2		Lamp 2 + 3	LPM:2
LPM:3		Dual (two lamps)	LPM:3
LPM:4		Lamp 1 + 2 + 3	LPM:4
LPM:5		Lamp 1 + 2 + 4	LPM:5
LPM:6		Lamp 1 + 3 + 4	LPM:6
LPM:7		Lamp 2 + 3 + 4	LPM:7
LPM:8		Triple (three lamps)	LPM:8
LPM:9	_	Lamp 1	LPM:9
LPM:10	<u> </u>	Lamp 2	LPM:10
LPM:11	_	Lamp 3	LPM:11
LPM:12	_	Lamp 4	LPM:12
LPM:13		Single lamp	LPM:13
OSH:1	SHUTTER	Shutter on	OSH:1
OSH: 0		Shutter off	OSH: 0
OPP:0	P IN P SELECT	P in P off	OPP:0
OPP:1	<u> </u>	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
OTE: 0	COLOR TEMPERATURE	Low	OTE:0
OTE:1		Middle	OTE:1
OTE: 2		High	OTE: 2
OTE:4		User 1	OTE: 4
OTE:9		User 2	OTE:9
OTE:10		Default	OTE:10
TSD:y1y2y3y4m1m2d1d2w	DATE	Date setting	TSD:y1y2y3y4m1m2d1d2w
TST: h1h2m1m2s1s2	TIME	Time setting	TST:h1h2m1m2s1s2
00S:1	ON SCREEN	On-screen display on	00S:1
00S:0		On-screen display off	OOS:0

Status asking commands

Command:Parameter	Function	Callback	Description
QPW	Main power status	001	On
		0 0 0	Off
QSH	Shutter function status	1	On
		0	Off
QIN	Input signal status	RG1	RGB 1
		RG2	RGB 2
		VID	Video
		SVD	S-Video
		DVI	DVI
		AUX	AUX
QOS	On-screen display status	1	On
		0	Off
QST	Projector run time	00000-99999	00000h-99999h
Q\$L:1	Lamp 1 run time	0000-9999	0000h-9999h
Q\$L:2	Lamp 2 run time	0000-9999	0000h-9999h
Q\$L:3	Lamp 3 run time	0000-9999	0000h-9999h
Q\$L:4	Lamp 4 run time	0000-9999	0000h-9999h
QSL	Lamp operation mode status	0	Quad (four lamps)
		1	Lamp 1 + 4
		2	Lamp 2 + 3
		3	Dual (two lamps)
		4	Lamp 1 + 2 + 3
		5	Lamp 1 + 2 + 4
		6	Lamp 1 + 3 + 4
		7	Lamp 2 + 3 + 4
		8	Triple (three lamps)
		9	Lamp 1
		10	Lamp 2
		11	Lamp 3
		12	Lamp 4
		13	Single lamp
QIB	Optional board slot status	MD95SD1	ET-MD95SD1
		MD95SD3	ET-MD95SD3
		MD75DV	ET-MD75DV
		NONE	Uninstalled
		UNKNOWN	Unknown
		NOT SUPPORT	Not supported
QPP	P in P status	0	Off
		1	User 1
		2	User 2
		3	User 3
QGD	Date setting status	y1y2y3y4m1m2d1d2w	yyyymmdd (day of week) ^(*1)
QGT	Time setting status	h1h2m1m2s1s2	hhmmss (*2)

- *1 Day of week: Monday = 1, Tuesday = 2, ... Sunday = 7
- *2 Set the date and time to UTC (universal time coordinated).

NOTE: If a wrong command is received, the projector will send an ER401 or ER402 command to the computer.

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.

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

Notes on Projector Placement and Operation:

500 mm (19-11/16")

or more

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 (19-11/16") 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. 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.

500 mm

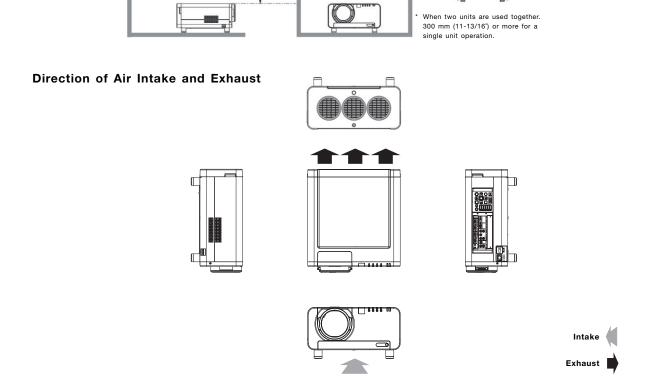
(19-11/16")

or more'

500 mm

(19-11/16")

or more



Operating the Projector Continuously

- 1. If the projector is to be operated continuously 24 hours, use the lamp relay mode. The projector cannot be operated continuously 24 hours in quad-lamp mode. Allow a minimum of two hours per day of non-operation time if the projector is to be operated continuously more than 22 hours.
- 2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

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