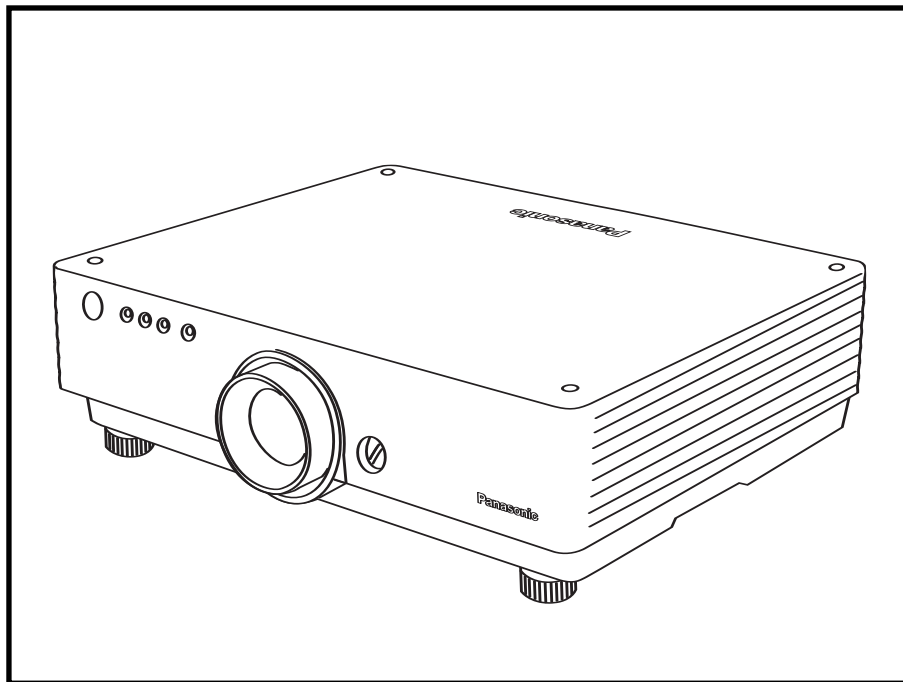


## S P E C F I L E

T E N T A T I V E

PRODUCT NO.: PT-DW5000/DW5000L  
PRODUCT NAME: DLP™-Based Projectors



The PT-DW5000L is not equipped with a lens.

### MAJOR FEATURES

- High image quality
  - Native WXGA (1,280 x 768) panel
  - Ultra bright 4,500 lumens
  - High 1,600:1 contrast ratio\*<sup>1</sup>
  - High uniformity of brightness and color
  - Progressive cinema scan (3/2 pulldown)
  - Dynamic sharpness control
- High reliability and easy maintenance
  - Liquid cooling system
  - Dustproof design with sealed optical block
  - Dual lamp system and lamp relay function
  - Optional long-life lamp
  - Easy replacement of dust filter and lamp
- Flexible system applications
  - Lens-centered design
  - Horizontal/vertical lens shift
  - Optional lenses for various venues
- Easy lens replacement
- Multiple terminals including DVI-D
- Control panel and wireless remote control
- Quiet operation: 29 dB\*<sup>2</sup>
- Networking
  - Wired LAN system
  - Web browser control/monitoring
  - E-mail message alert
  - Compliant with PJLink™
- Other valuable features
  - Direct power off
  - Anti-theft features with chain opening
  - Customizable top panel
  - Flexible angle setting
  - Mechanical shutter

\*<sup>1</sup> In high contrast mode

\*<sup>2</sup> In low lamp power mode

## DLP™-Based Projectors

## PT-DW5000/DW5000L

## 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:	770 W (770 VA) (10 W during standby mode with fan stopped)
	Europe:	750 W (790 VA) (15 W during standby mode with fan stopped)
DMD™ device:	Panel size:	0.65" diagonal (15:9 aspect ratio)
	Display method:	DMD™ x 1, DLP™ system
	Pixels:	983,040 (1,280 x 768) x 1, total of 983,040 pixels
Lens:	PT-DW5000:	Powered zoom/focus lenses (1:1.8–1:2.5), F 1.7–2.0, f 25.6–33.8 mm
	PT-DW5000L:	Optional poweredzoom/focus lenses
Lamp:		300 W UHM™ lamps (x 2) (dual lamp system)
Screen size:		50–600 inches
Brightness:		4,500 lumens (dual lamp, high power mode)
Center-to-corner uniformity:		90%
Contrast:		1,600:1 (full on/full off, contrast mode: high) 800:1 (full on/full off, contrast mode: normal)
Resolution:	RGB:	1,280 x 768 pixels (1,600 x 1,200 pixels compatible, compression mode)
	Video:	560 TV lines
Scanning frequency:	RGB:	Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 108 MHz or lower
	YPbPr (YCbCr):	480i: fh 15.75 kHz; fv 60 Hz, 576i: fh 15.63 kHz; fv 50 Hz, 480p: fh 31.5 kHz; fv 60 Hz, 576p: fh 31.25 kHz; fv 50 Hz, 720/60p: fh 45 kHz; fv 60 Hz, 720/50p: fh 37.5 kHz; fv 50 Hz, 1035/60i: fh 33.75 kHz; fv 60 Hz, 1080/60i: fh 33.75 kHz; fv 60 Hz, 1080/50i: fh 28.13 kHz; fv 50 Hz
	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:		Horizontal (manual) and vertical (powered), horizontal: ±10% (6:4–4:6), vertical: 0–50% (0:10–10:10)
Keystone correction range:		Vertical: ±30° (with standard lens)
Installation:		Ceiling/floor, front/rear
Terminals:	DVI-D IN:	DVI-D 24-pin x 1, DVI 1.0 compliant, HDCP compatible, for single link only
	EDID 1	480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i
	EDID 2	For non-interlaced signals only, Display mode: From VGA (640 x 480) to SXGA (1,280 x 1,024) , Dot clock: 25 MHz–108 MHz
	RGB 1 IN:	BNC x 5
	R, G, B:	G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75Ω, B, R: 0.7 Vp-p, 75Ω HD/VD, SYNC: 1.4 Vp-p–5.0 Vp-p, 75Ω (positive/negative)
	Y, Pb, Pr:	Y: 1.0 p-p, 75Ω, Pb/Pr: 0.7 Vp-p, 75Ω
	RGB 2 IN:	D-sub HD 15-pin x 1
	R, G, B:	G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75Ω, B, R: 0.7 Vp-p, 75Ω HD/VD, SYNC: 1.4 Vp-p–5.0 Vp-p, 75Ω (positive/negative)
	Y, Pb, Pr:	Y: 1.0 p-p, 75Ω, Pb/Pr: 0.7 Vp-p, 75Ω
	VIDEO IN:	BNC pin x 1, 1.0 Vp-p, 75Ω
	S-VIDEO IN:	Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75Ω
	SERIAL IN:	D-sub 9-pin x 1 (RS-232C compliant) for external controller
	SERIAL OUT:	D-sub 9-pin x 1 (RS-232C compliant) for external controller
	REMOTE 1 IN:	M3 jack x 1 for wired remote control or link 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, compliant with PLink™, 10Base-T/100Base-TX
On-screen menu:		9 languages: English, French, German, Spanish, Italian, Russian, Korean, Chinese, and Japanese
Noise:		35 dB (high lamp power mode), 29 dB (low lamp power mode)

DLP™-Based Projectors

PT-DW5000/DW5000L

Power cord length:		3.0 m (9.9')
Dimensions (W x H x D):		530 x 167 x 429 mm (20-7/8" x 6-9/16" x 16-7/8") (without lens)
Weight:	PT-DW5000	14.5 kg (32.0 lbs) (with supplied lens)
	PT-DW5000L	13.7 kg (30.2 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 (AAA battery x 2)
Operation range*:	Wireless:	Approx. 7 m when operated from directly in front of the signal receptor
	Wired:	Approx. 15 m
Dimensions (W x H x D):		45 x 145 x 24.5 mm (1-3/4" x 5-11/16" x 15/16")
Weight:		Approx. 115 g (4.9 oz.) (including batteries)

Supplied Accessories

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

Optional Accessories

Replacement lamp unit:	ET-LAD55 (1 unit)
	ET-LAD55W (set of two lamps)
Replacement long-life lamp unit:	ET-LAD55L (1 unit)
	ET-LAD55WL (set of two lamps)
Ceiling mount bracket:	ET-PKD55 (for high ceilings)
	ET-PKD55S (for low ceilings)
Zoom lens (1.3-1.8:1)	ET-DLE100
Zoom lens (2.5-4.0:1)	ET-DLE200
Zoom lens (3.4-4.5:1)	ET-DLE310
Zoom lens (4.5-8.2:1)	ET-DLE410
Fixed-focus lens (0.8:1)	ET-DLE050
Wireless mouse receiver	ET-RMRC2

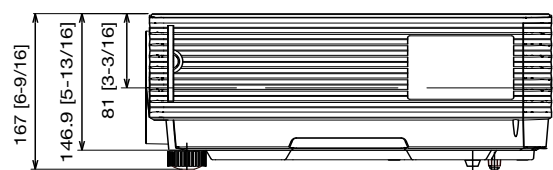
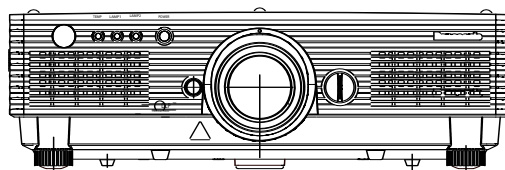
\* Operation range differs depending on the environment.

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

Dimensions



unit: mm [inch]

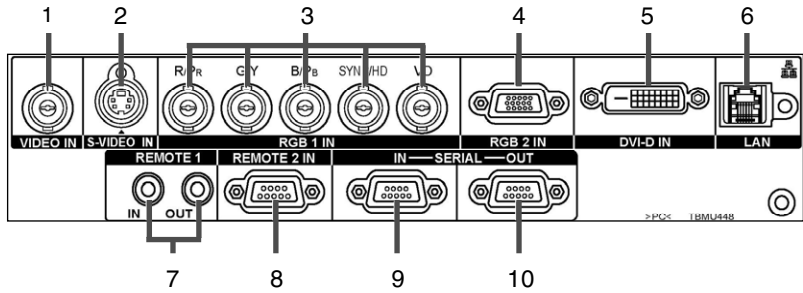


Note: This illustration is not drawn to scale. The illustration shows the PT-DW5000L.

DLPTM-Based Projectors

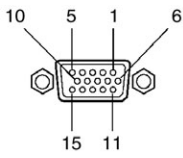
# PT-DW5000/DW5000L

Terminals



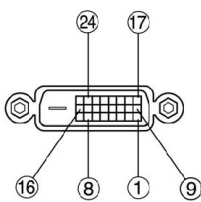
- 1 Video input
- 2 S-Video input
- 3 RGB 1 input
- 4 RGB 2 Input
- 5 DVI-D input
- 6 LAN connector
- 7 Remote 1 input and output
- 8 Remote 2 input
- 9 Serial input
- 10 Serial output

**RGB IN connector pin assignment**



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

**DVI-D output connector pin assignment**

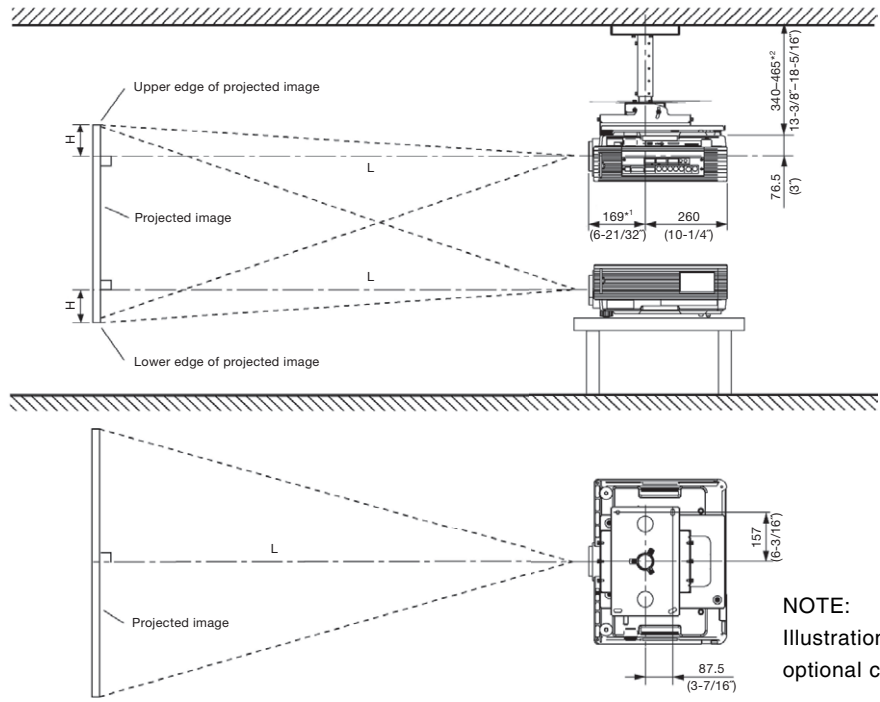


no.	signal	no.	signal	no.	signal
1	T, M, D, S data 2-	9	T, M, D, S data 1-	17	T, M, D, S data 0-
2	T, M, D, S data 2+	10	T, M, D, S data 1+	18	T, M, D, S data 0+
3	T, M, D, S data 2 shield	11	T, M, D, S data 1 shield	19	T, M, D, S data 0 shield
4	NC	12	NC	20	NC
5	NC	13	NC	21	NC
6	DDC clock	14	+5 V	22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

DLPTM-Based Projectors

# PT-DW5000/DW5000L

Standard setting-up positions



\*1 When the lens protrudes to the maximum.  
 172 mm (6-25/32") with the ET-DLE050  
 204 mm (8-1/32") with the ET-DLE100  
 203 mm (8") with the ET-DLE200  
 191 mm (7-17/32") with the ET-DLE310  
 191 mm (7-17/32") with the ET-DLE410

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

unit: mm (inch)

NOTE:  
 Illustrations show the projector installed using optional ceiling bracket.

Projection distance (screen aspect ratio 15:9)

Screen size (inch, diagonal)	ET-DLE100 Zoom lens (1.33-1.78:1)		Supplied lens (1.8-2.5:1)		ET-DLE200 Zoom lens (2.5-4.0:1)		ET-DLE310 Zoom lens (3.4-4.5:1)		ET-DLE410 Zoom lens (4.5-8.4:1)		ET-DLE050 Fixed-focus lens (0.8:1)	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
50	1.45 / 4.8	1.97 / 6.5	1.94 / 6.4	2.59 / 8.5	2.67 / 8.8	4.40 / 14.4	3.82 / 12.5	5.02 / 16.5	5.08 / 16.7	9.62 / 31.6	0.87 / 2.9	
60	1.75 / 5.7	2.38 / 7.8	2.35 / 7.7	3.12 / 10.2	3.22 / 10.6	5.29 / 17.4	4.61 / 15.1	6.05 / 19.8	6.13 / 20.1	11.57 / 38.0	1.05 / 3.4	
70	2.05 / 6.7	2.78 / 9.1	2.75 / 9.0	3.65 / 12.0	3.77 / 12.4	6.19 / 20.3	5.40 / 17.7	7.08 / 23.2	7.17 / 23.5	13.52 / 44.4	1.23 / 4.0	
80	2.35 / 7.7	3.18 / 10.4	3.15 / 10.3	4.18 / 13.7	4.31 / 14.1	7.08 / 23.2	6.18 / 20.3	8.10 / 26.6	8.21 / 26.9	15.47 / 50.8	1.41 / 4.6	
90	2.65 / 8.7	3.59 / 11.8	3.55 / 11.6	4.71 / 15.5	4.86 / 15.9	7.98 / 26.2	6.97 / 22.9	9.13 / 30.0	9.26 / 30.4	17.42 / 57.2	1.59 / 5.2	
100	2.95 / 9.7	3.99 / 13.1	3.95 / 13.0	5.24 / 17.2	5.41 / 17.7	8.87 / 29.1	7.75 / 25.4	10.15 / 33.3	10.30 / 33.8	19.37 / 63.5	1.77 / 5.8	
120	3.55 / 11.6	4.80 / 15.7	4.76 / 15.6	6.30 / 20.7	6.50 / 21.3	10.66 / 35.0	9.33 / 30.6	12.21 / 40.1	12.39 / 40.6	23.28 / 76.4	2.13 / 7.0	
150	4.45 / 14.6	6.01 / 19.7	5.96 / 19.6	7.89 / 25.9	8.15 / 26.7	13.35 / 43.8	11.68 / 38.3	15.28 / 50.1	15.52 / 50.9	29.13 / 95.6	2.67 / 8.6	
200	5.95 / 19.5	8.03 / 26.3	7.97 / 26.1	10.54 / 34.6	10.88 / 35.7	17.82 / 58.5	15.61 / 51.2	20.41 / 60.0	20.74 / 68.0	38.88 / 127.6	3.57 / 11.7	
250	7.45 / 24.4	10.05 / 33.0	9.98 / 32.7	13.19 / 43.3	13.62 / 44.7	22.30 / 73.2	19.54 / 64.1	25.54 / 83.8	25.96 / 85.2	48.64 / 159.6	- / -	
300	8.95 / 29.4	12.07 / 39.6	11.99 / 39.3	15.84 / 52.0	16.36 / 53.7	26.77 / 87.8	23.47 / 77.0	30.67 / 100.6	31.18 / 102.3	58.39 / 191.6	- / -	
350	10.45 / 34.3	14.09 / 46.2	14.00 / 45.9	18.49 / 60.7	19.09 / 62.6	31.25 / 102.5	27.40 / 89.9	35.80 / 117.5	36.40 / 119.4	68.15 / 223.6	- / -	
400	11.95 / 39.2	16.11 / 52.9	16.01 / 52.5	21.14 / 69.4	21.83 / 71.6	35.72 / 117.2	31.33 / 102.8	40.93 / 134.3	41.62 / 136.5	77.90 / 255.6	- / -	
500	14.94 / 49.0	20.15 / 66.1	20.03 / 65.7	26.44 / 86.7	27.31 / 89.6	44.67 / 146.6	39.19 / 128.6	51.19 / 167.9	52.06 / 170.8	97.41 / 319.6	- / -	
600	17.94 / 58.9	24.20 / 79.3	24.05 / 78.9	31.74 / 104.1	32.78 / 107.5	53.62 / 176.0	47.05 / 154.4	61.45 / 201.6	62.50 / 205.1	116.92 / 383.6	- / -	

unit: m/ft

**Calculation of the projection distance:**

For a screen size, use the equation below to calculate the projection distance. (unit: mm)

ET-DLE100	15 : 9	minimum maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0300 - 0.0452$ $L (m) = (\text{diagonal screen size in inches}) \times 0.0404 - 0.0478$
Supplied lens	15 : 9	minimum maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0402 - 0.0650$ $L (m) = (\text{diagonal screen size in inches}) \times 0.0530 - 0.0638$
ET-DLE200	15 : 9	minimum maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0547 - 0.0657$ $L (m) = (\text{diagonal screen size in inches}) \times 0.0895 - 0.0758$
ET-DLE310	15 : 9	minimum maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0786 - 0.1062$ $L (m) = (\text{diagonal screen size in inches}) \times 0.1026 - 0.1056$
ET-DLE410	15 : 9	minimum maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1044 - 0.1374$ $L (m) = (\text{diagonal screen size in inches}) \times 0.1951 - 0.1352$
ET-DLE050	15 : 9	(fixed focus)	$L (m) = (\text{diagonal screen size in inches}) \times 0.0180 - 0.0361$

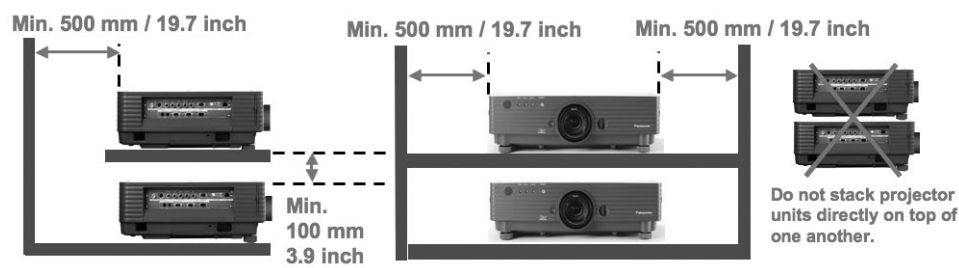
## DLPTM-Based Projectors

## PT-DW5000/DW5000L

**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 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 and 35°C. 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.

**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.