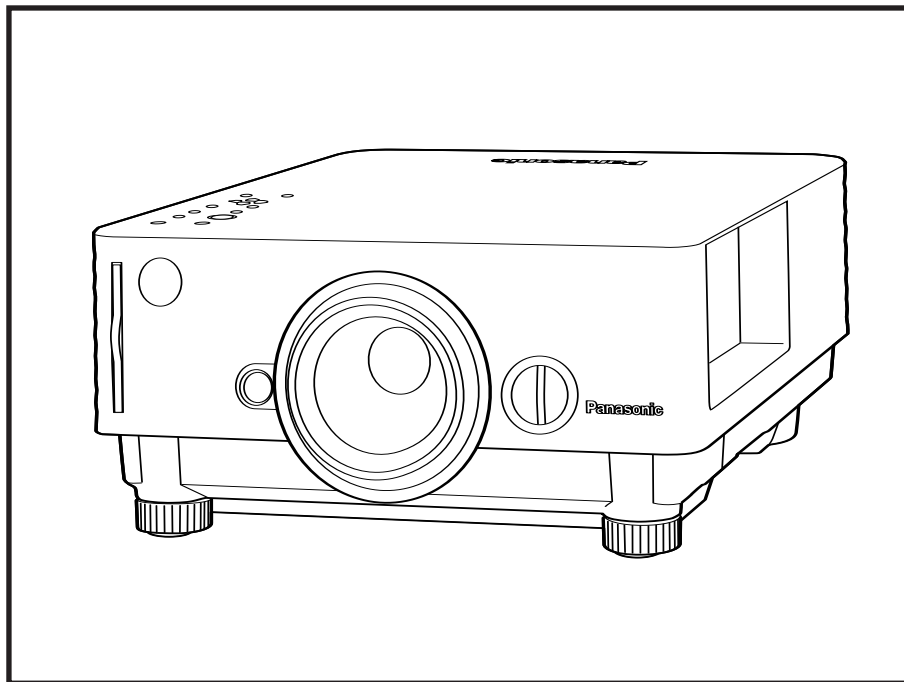


Panasonic ideas for life

S P E C F I L E

PRODUCT NO.: PT-D3500

PRODUCT NAME: DLP™-Based Projector



MAJOR FEATURES

- High image quality
 - High-precision 0.7" DLP™ chip
 - Ultra bright 3,500 lumens
 - High 1,600:1 contrast ratio
 - Highly uniform brightness and color
- High reliability and easy maintenance
 - Dustproof design with sealed optical block
 - Easily replaceable dust filter and lamp
- Flexible system applications
 - Lens-centered design
 - Horizontal/vertical lens shift
 - Optional lenses for various venues
 - Easy lens replacement
 - Mechanical lens shutter
 - Flexible angle setting
 - Multiple terminals with AV switcher capability
- Networking
 - Wired LAN system
 - Web browser control/monitoring
 - E-mail message alert
- Other valuable features
 - Direct power off
 - Quiet operation design
 - Anti-theft features, including security chain opening

Specifications

Main Unit

Power supply:		PT-D3500U: 120 V AC, 50/60 Hz, 4 A PT-D3500E: 220–240 V AC, 50/60 Hz, 2.3 A
Power consumption:		400 W (15 W during standby mode with fan stopped)
DMD™ device:	Panel size:	0.7" diagonal (4:3 aspect ratio)
	Display method:	DMD™ x 1, DLP™ system
	Pixels:	786,432 (1,024 x 768) x 1, total of 786,432 pixels
Lens:		Powered zoom/focus lenses (1–1.32), F 1.8–2.5, f 25.6–33.8 mm
Lamp:		300 W UHM™ lamp
Screen size:		50–600 inches
Brightness:		3,500 lumens (contrast mode: high)
Contrast:		1,600:1 (full on/full off, contrast mode: high) 800:1 (full on/full off, contrast mode: normal)
Resolution:	RGB:	1,024 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: Less than 108 MHz
	DVI-D:	EDID1: 480p, 576p, 720/60p, 1080/60i, 1080/50i EDID2: VGA480/60, SVGA/60, XGA/60, XGA/70, XGA/85, SXGA/60
	YPbPr (YCbCr):	480i: fh 15.75 kHz; fv 59.94 Hz, 576i: fh 15.63 kHz; fv 50 Hz, 480p: fh 31.5 kHz; fv 59.94 Hz, 576p: fh 31.25 kHz; fv 50 Hz, 720/60p: fh 45 kHz; fv 60 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: 59.94/50 Hz, (PAL, PAL60, PAL-M, PAL-N, SECAM, NTSC, NTSC4.43)
Optical axis shift:		Horizontal (manual) and vertical (powered), horizontal: 6:4–4:6, vertical: 0:10–10:0 Vertical: ±30°
Keystone correction range:		Ceiling/floor, front/rear
Installation:		
Terminals:	DVI-D IN:	DVI-D 24-pin x 1, HDCP-compliant
	DVI-D AUDIO IN:	M3 (L, R) x 1, 0.5 Vrms
	RGB1 IN:	5 BNC 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/SYNC, VD: TTL (positive/negative)
	Y, Pb, Pr:	Y: 1.0 p-p (sync signal included), 75Ω, Pb, Pr: 0.7 Vp-p, 75Ω
	RGB1 AUDIO IN:	M3 (L, R) x 1, 0.5 Vrms
	RGB2 IN:	D-sub HD 15-pin x 1
	R, G, B:	0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75Ω, B, R: 0.7 Vp-p, 75Ω HD/SYNC, VD: 75Ω, TTL (positive/negative polarity)
	Y, Pb, Pr:	Y: 1.0 p-p, 75Ω, Pb, Pr: 0.7 Vp-p, 75Ω
	RGB2 AUDIO IN:	M3 (L, R) x 1, 0.5 Vrms
	VIDEO IN:	RCA pin x 1, 1.0 Vp-p, 75Ω
	VIDEO AUDIO IN:	RCA pin (L, R) x 1, 0.5 Vrms
	S-VIDEO IN:	Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75Ω
	S-VIDEO AUDIO IN:	RCA pin (L, R) x 1, 0.5 Vrms
	AUDIO OUT:	M3 (L, R) x 1, 0-2.0 Vrms (variable)
	SERIAL IN:	D-sub 9-pin x 1 (RS-232C compliant) for external controller
	REMOTE 1 IN:	M3 jack x 1 for wired remote control
	REMOTE 2 IN:	D-sub 9-pin x 1 for external control (parallel)
	LAN:	RJ-45 x 1 (compliant with PjLink™)

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

DLP™-Based Projector

PT-D3500

Power cord length:	3.0 m (9.8')
Cabinet material:	Molded plastic (PC/ABS)
Dimensions (W x H x D):	332 x 168 x 425 mm (13-1/16" x 6-5/8" x 16-23/32")
Weight:	7.9 kg (17.4 lbs)
Operating temperature:	0°–40°C (32°–104°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 (23') when operated from directly in front of the signal receptor
Dimensions (W x H x D):	45 x 145 x 23 mm (1-3/4" x 5-11/16" x 29/32")
Weight:	Approx. 95 g (3.4 oz.) (including batteries)

Supplied Accessories

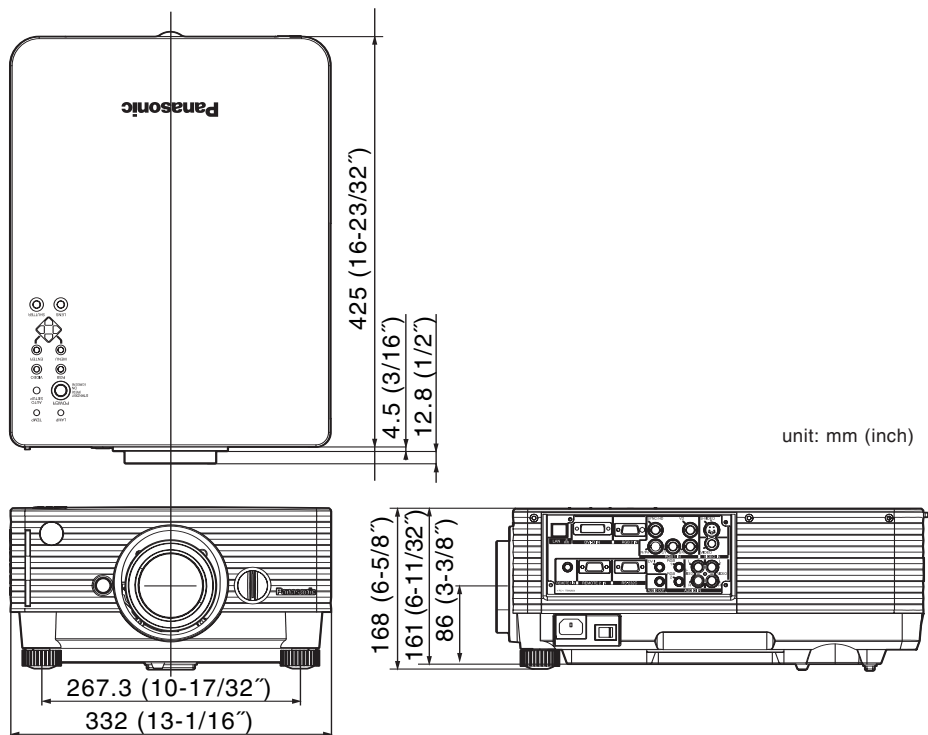
Power cord, Wireless/wired remote control unit, Batteries for remote control (x 2)

Optional Accessories

Replacement lamp unit:	ET-LAD35
Replacement lamp unit:	ET-LAD35L
Ceiling mount bracket:	ET-PKD35
Ceiling mount bracket for low ceilings:	ET-PKD35S
Zoom lens (1.3–1.8:1)	ET-DLE100
Zoom lens (2.5–4.0:1)	ET-DLE200
Zoom lens (3.7–5.7:1)	ET-DLE300
Zoom lens (5.7–8.0:1)	ET-DLE400
Fixed-focus lens (0.8:1)	ET-DLE050
Wireless mouse receiver	ET-RMRC2

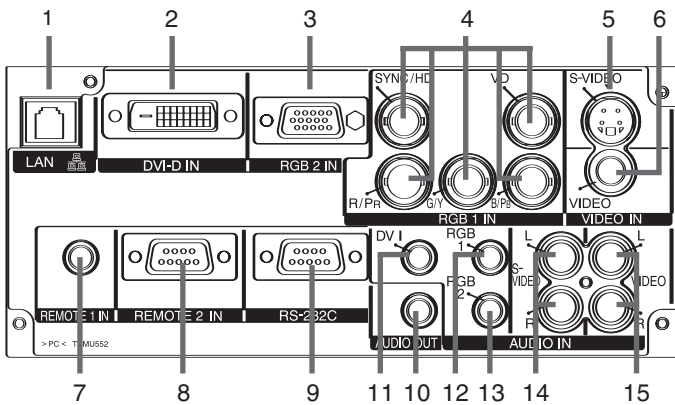
* Operation range differs depending on the environment.

Dimensions



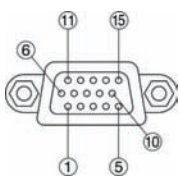
Note: This illustration is not drawn to scale.

Terminals



- 1 LAN connector
- 2 DVI-D input
- 3 RGB 2 input
- 4 RGB 1 input
- 5 S-Video input
- 6 Video input
- 7 Remote 1 input
- 8 Remote 2 input
- 9 Serial input
- 10 Audio output
- 11 Audio input for DVI-D
- 12 Audio input for RGB 1
- 13 Audio input for RGB 2
- 14 Audio input for S-video
- 15 Audio input of video

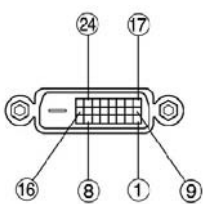
RGB input connector pin assignment



no.	signal	no.	signal	no.	signal
1	R/PR	6	GND	11	GND
2	G/G, SYNC/Y	7	GND	12	SDA*
3	B/PB	8	GND	13	HD/SYNC
4	GND	9	NC	14	VD
5	GND	10	GND	15	SCL*

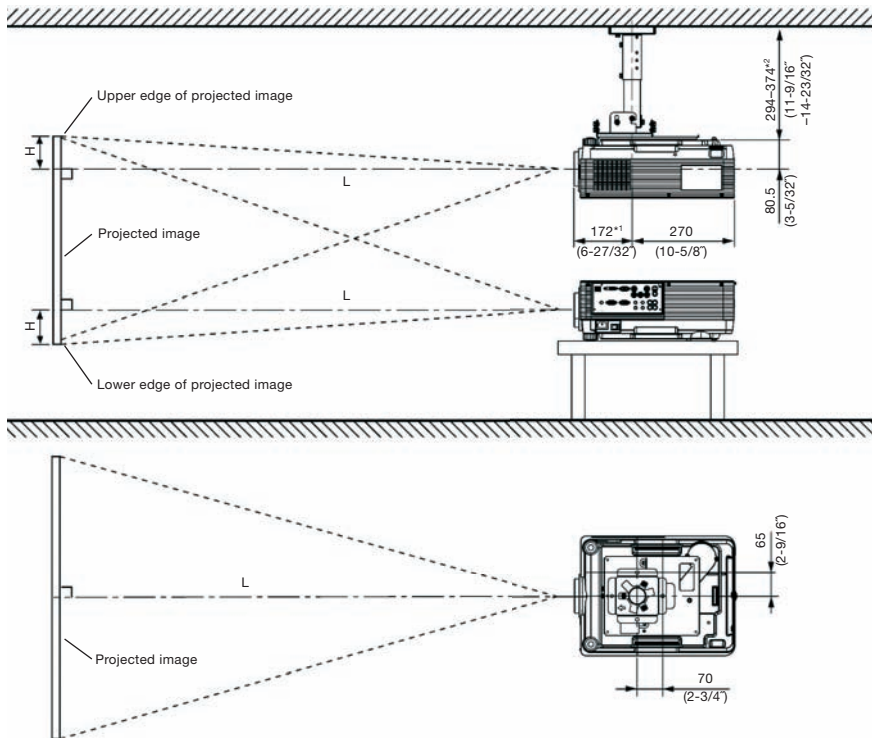
* Valid when connected to a PC having corresponding functions.

DVI-D input 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 2/4 shield	11	T, M, D, S data 1/3 shield	19	T, M, D, S data 0/5 shield
4	T, M, D, S data 4-	12	T, M, D, S data 3-	20	T, M, D, S data 5-
5	T, M, D, S data 4+	13	T, M, D, S data 3+	21	T, M, D, S data 5+
6	DDC clock	14	+5 V	22	T, M, D, S clock shield
7	DDC data	15	GND	23	T, M, D, S clock +
8	NC	16	Hot plug detection	24	T, M, D, S clock -

Standard setting-up positions



Illustrations show the projector installed using optional ceiling bracket.

- *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-DLE300
 191 mm (7-17/32") with the ET-DLE400

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

unit: mm (inch)

Note: This illustration is not drawn to scale.

Projection distance (screen aspect ratio 4:3)

Screen size (inch, diagonal)	ET-DLE100 Zoom lens (1.3-1.8:1)		Supplied lens (1.8-2.5:1)		ET-DLE200 Zoom lens (2.5-4.0:1)		ET-DLE300 Zoom lens (3.7-5.7:1)		ET-DLE400 Zoom lens (5.7-8.0:1)		ET-DLE050 Fixed-focus lens (0.8:1)	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
50	1.34 / 4.4	1.81 / 5.9	1.81 / 5.9	2.40 / 7.9	2.46 / 8.1	4.05 / 13.3	3.84 / 11.0	6.03 / 19.8	5.94 / 19.5	8.31 / 27.3	0.79 / 2.6	
60	1.61 / 5.3	2.19 / 7.2	2.18 / 7.2	2.89 / 9.5	2.96 / 9.7	4.87 / 16.0	4.63 / 15.2	7.26 / 23.8	7.11 / 23.3	9.95 / 32.6	0.96 / 3.1	
70	1.89 / 6.2	2.56 / 8.4	2.55 / 8.4	3.38 / 11.1	3.46 / 11.4	5.69 / 18.7	5.43 / 17.8	8.49 / 27.9	8.28 / 27.2	11.60 / 38.1	1.12 / 3.7	
80	2.17 / 7.1	2.93 / 9.6	2.92 / 9.6	3.87 / 12.7	3.97 / 13.0	6.52 / 21.4	6.22 / 20.4	9.72 / 31.9	9.45 / 31.0	13.24 / 43.4	1.29 / 4.2	
90	2.44 / 8.2	3.30 / 10.8	3.29 / 10.8	4.36 / 14.3	4.47 / 14.7	7.34 / 24.1	7.02 / 23.0	10.96 / 36.0	10.62 / 34.8	14.89 / 48.9	1.45 / 4.8	
100	2.72 / 8.9	3.68 / 12.1	3.66 / 12.0	4.85 / 15.9	4.98 / 16.3	8.17 / 26.8	7.81 / 25.6	12.19 / 40.0	11.79 / 38.7	16.53 / 54.2	1.62 / 5.3	
120	3.27 / 10.7	4.42 / 14.5	4.41 / 14.5	5.83 / 19.1	5.99 / 19.7	9.82 / 32.2	9.40 / 30.8	14.65 / 48.1	14.14 / 46.4	19.82 / 65.0	1.95 / 6.4	
150	4.10 / 13.5	5.54 / 18.2	5.52 / 18.1	7.30 / 24.0	7.50 / 24.6	12.29 / 40.3	11.79 / 38.7	18.35 / 60.2	17.65 / 57.9	24.75 / 81.2	2.45 / 8.0	
200	5.48 / 18.0	7.40 / 24.3	7.38 / 24.2	9.75 / 32.0	10.02 / 32.9	16.41 / 53.8	15.76 / 51.7	24.51 / 80.4	23.52 / 77.2	32.98 / 108.2	3.28 / 10.8	
250	6.87 / 22.6	9.26 / 30.4	9.23 / 30.2	12.20 / 40.0	12.54 / 41.1	20.53 / 67.4	19.74 / 64.8	30.67 / 100.6	29.39 / 96.4	41.20 / 135.2	- / -	
300	8.25 / 27.1	11.12 / 36.5	11.09 / 36.4	14.65 / 48.1	15.06 / 49.4	24.65 / 80.9	23.71 / 77.8	36.83 / 120.8	35.27 / 115.7	49.43 / 162.2	- / -	
400	11.02 / 36.2	14.84 / 48.7	14.80 / 48.6	19.55 / 64.1	20.11 / 66.0	32.90 / 107.9	31.66 / 103.9	49.15 / 161.3	47.04 / 154.3	65.90 / 216.2	- / -	
500	13.78 / 45.2	18.56 / 60.9	18.51 / 60.7	24.45 / 80.2	25.15 / 82.5	41.14 / 135.0	39.61 / 130.0	61.47 / 201.7	58.85 / 193.1	82.38 / 270.3	- / -	
600	16.55 / 54.3	22.28 / 73.1	22.23 / 72.9	29.35 / 96.3	30.19 / 99.0	49.38 / 162.0	47.56 / 156.0	73.80 / 242.1	70.67 / 231.9	98.87 / 324.4	- / -	

unit: m/ft

Calculation of the projection distance:

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

ET-DLE100	4 : 3	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0276 - 0.0452$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0372 - 0.0478$
	16 : 9	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0301 - 0.0452$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0405 - 0.0478$
Supplied lens	4 : 3	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0371 - 0.0507$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0490 - 0.0500$
	16 : 9	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0403 - 0.0507$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0532 - 0.0500$
ET-DLE200	4 : 3	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0504 - 0.0657$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0824 - 0.0758$
	16 : 9	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0549 - 0.0657$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0898 - 0.0758$
ET-DLE300	4 : 3	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0795 - 0.138$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1232 - 0.131$
	16 : 9	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.0866 - 0.138$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1342 - 0.131$
ET-DLE400	4 : 3	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1176 + 0.0244$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1646 + 0.0651$
	16 : 9	minimum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1281 + 0.0244$
		maximum	$L (m) = (\text{diagonal screen size in inches}) \times 0.1793 + 0.0651$
ET-DLE050	4 : 3	(fixed focus)	$L (mm) = (\text{diagonal screen size in inches}) \times 0.0166 - 0.0361$
		16 : 9	(fixed focus)