Panasonic ideas for life
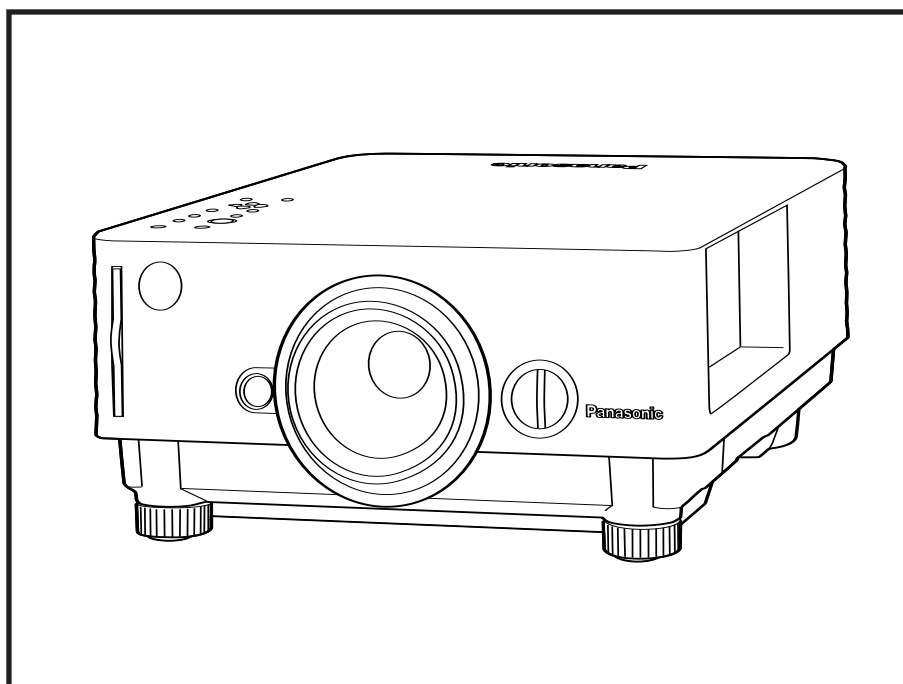
PRODUCT NO.: PT-D3500

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

DLP™-Based Projector

PT-D3500

Specifications

Main Unit

Power supply:		100–240 V AC, 50/60 Hz
Power consumption:		410 W (410 VA) (10 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 (1–1.36), F 1.7–2.0, 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
	YP_BP_R (YC_BC_R):	480i: f_H 15.75 kHz; f_V 60 Hz, 576i: f_H 15.63 kHz; f_V 50 Hz,
		480p: f_H 31.5 kHz; f_V 60 Hz, 576p: f_H 31.25 kHz; f_V 50 Hz,
		720/60p: f_H 45 kHz; f_V 60 Hz,
		1035/60i: f_H 33.75 kHz; f_V 60 Hz, 1080/60i: f_H 33.75 kHz; f_V 60 Hz,
		1080/50i: f_H 28.13 kHz; f_V 50 Hz
	S-Video/Video:	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 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
Keystone correction range:		Vertical: ±30°
Installation:		Ceiling/floor, front/rear
Terminals:	DVI-D IN:	DVI-D 24-pin x 1
	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, VD/SYNC: TTL (positive/negative)
	Y, P_B, P_R:	Y: 1.0 p-p (sync signal included), 75Ω, P_B, P_R: 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, VD/SYNC: 75Ω, TTL (positive/negative polarity)
	Y, P_B, P_R:	Y: 1.0 p-p, 75Ω, P_B, P_R: 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 Vp-p, 75Ω
	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 Vp-p, 75Ω
	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
Power cord length:		3.0 m (9.8˝)
Cabinet material:		Molded plastic (ABS/PC)
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)

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

Panasonic

DLP™-Based Projector

PT-D3500

Remote Control Unit

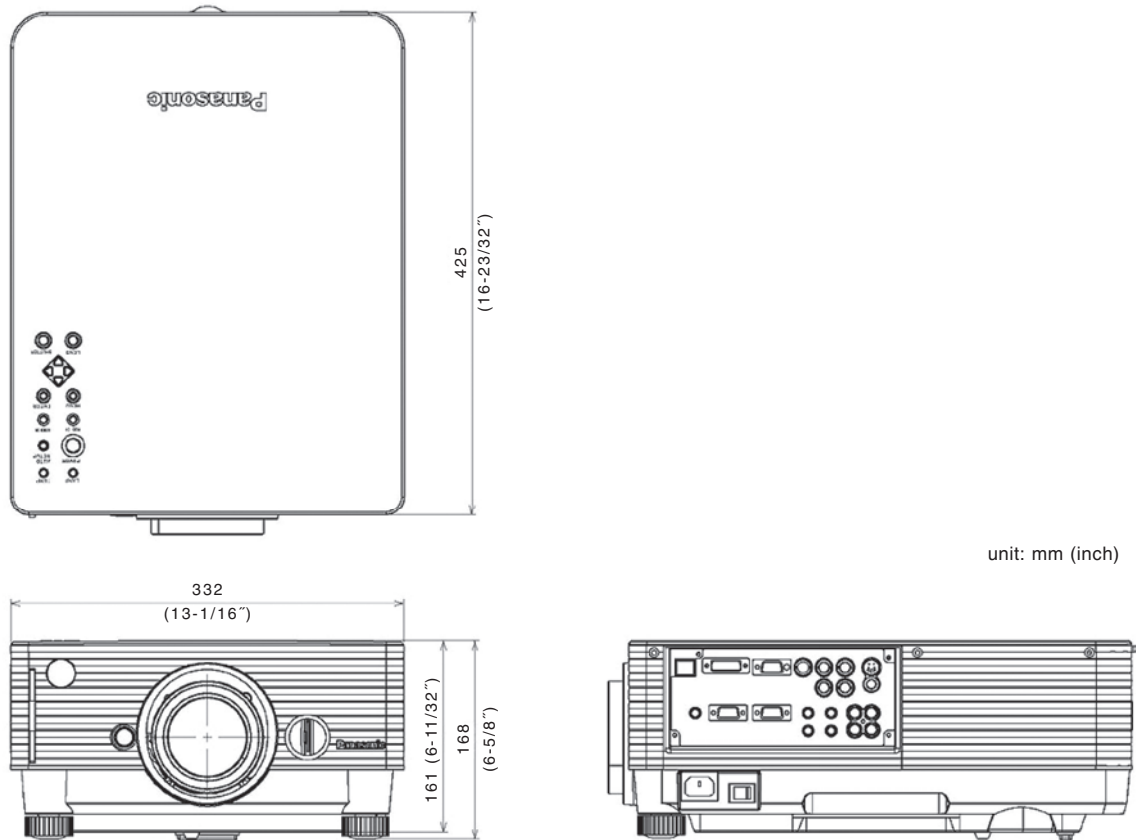|	
Power supply:	3 V DC (AAA battery x 2)
Operation range*: Wireless:	Approx. 7 m when operated from directly in front of the signal receptor
Dimensions (W x H x D):	45 x145 x 24.5 mm (1-3/4″ x 5-11/16″ x 31/32″)
Weight:	Approx. 115 g (4.1 oz.) (including batteries)

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

425 (16-23/32″)

unit: mm (inch)

332 (13-1/16″)

168 (6-5/8″)

161 (6-11/32″)

Note: This illustration is not drawn to scale.

DLP™-Based Projector

PT-D3500

Projection distance (screen aspect ratio 4:3)

Screen size (inch, diagonal)	ET-DLE100 Zoom lens (1.3–1.8:1)		Supplied lens (1.7–2.1:1)		ET-DLE200 Zoom lens (2.5–4.4:1)		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	1.4 / 4.6	1.8 / 5.9	1.8 / 5.9	2.4 / 7.9	2.5 / 8.2	4.1 / 13.5	3.9 / 12.8	6.0 / 17.2	6.0 / 17.2	8.3 / 27.2	0.794 / 2.6
60	1.7 / 5.6	2.1 / 6.9	2.1 / 6.9	2.9 / 9.5	2.9 / 9.5	4.9 / 16.1	4.7 / 15.4	7.2 / 23.6	7.2 / 23.6	9.9 / 32.5	0.960 / 3.15
70	1.9 / 6.2	2.5 / 8.2	2.5 / 8.2	3.4 / 9.8	3.4 / 9.8	5.7 / 18.7	5.5 / 18.0	8.4 / 27.6	8.3 / 27.2	11.6 / 38.1	1.126 / 3.69
80	2.2 / 7.2	2.9 / 9.5	2.9 / 9.5	3.7 / 12.1	3.9 / 12.8	6.5 / 21.3	6.3 / 20.7	9.7 / 31.8	9.5 / 31.2	13.2 / 43.3	1.292 / 4.24
90	2.5 / 8.2	3.3 / 10.8	3.3 / 10.8	4.3 / 14.1	4.4 / 14.4	7.3 / 24.0	7.1 / 23.3	11.0 / 36.1	10.7 / 35.1	14.8 / 48.6	1.458 / 4.78
100	2.8 / 9.2	3.6 / 11.8	3.6 / 11.8	4.8 / 15.7	4.9 / 16.1	8.1 / 26.6	7.9 / 25.9	12.1 / 39.7	11.8 / 38.7	16.5 / 54.1	1.624 / 5.33
120	3.3 / 10.8	4.4 / 14.4	4.4 /14.4	5.8 / 19.0	5.8 / 19.0	9.8 / 32.2	9.5 / 31.2	14.6 / 47.9	14.2 / 46.6	19.8 / 65.0	1.956 / 6.42
150	4.2 / 13.8	5.5 / 18.0	5.5 / 18.0	7.3 / 24.0	7.3 / 24.0	12.2 / 40.0	11.8 / 38.7	18.3 / 60.0	17.7 / 58.1	24.7 / 81.0	2.454 / 8.05
200	5.4 / 17.7	7.3 / 24.0	7.3 /24.0	9.7 / 31.8	9.8 / 32.2	16.3 / 53.5	15.8 / 51.8	24.5 / 80.4	23.6 / 77.4	32.9 /107.9	3.283 /10.77
250	6.9 / 22.6	9.2 / 30.2	9.2 /30.2	12.1 / 39.7	12.2 / 40.0	20.3 / 66.6	19.8 / 65.0	30.6 / 100.4	29.4 / 96.5	41.2 /135.2	- / -
300	8.3 / 27.2	11.1 /36.4	11.1 /36.4	14.6 / 47.9	14.7 / 48.2	24.4 / 80.1	23.8 / 78.1	36.8 /120.7	35.3 /115.8	49.4 /162.1	- / -
400	11.1 / 36.4	14.8 /48.6	14.8 /48.6	19.5 / 64.0	19.6 / 64.3	32.5 /106.6	31.7 /104.0	49.1 /161.1	47.1 /154.5	65.9 /216.2	- / -
500	13.8 / 45.3	18.5 /60.7	18.5 /60.7	24.4 / 80.1	24.5 / 80.4	40.6 /133.2	39.7 /130.2	61.4 /201.4	58.9 /193.2	82.3 /270.0	- / -
600	16.6 /54.5	22.2 /72.8	22.2 /72.8	29.2 / 95.8	29.4 / 96.5	48.8 /160.1	47.6 /156.2	73.8 /242.1	70.7 /232.0	98.8 /324.5	- / -

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) = (diagonal screen size in inches) x 0.0276 - 0.045
		maximum	L (m) = (diagonal screen size in inches) x 0.0372 - 0.048
	16 : 9	minimum	L (m) = (diagonal screen size in inches) x 0.0301 - 0.045
		maximum	L (m) = (diagonal screen size in inches) x 0.0405 - 0.048
Supplied lens	4 : 3	minimum	L (m) = (diagonal screen size in inches) x 0.0370 - 0.065
		maximum	L (m) = (diagonal screen size in inches) x 0.0488 - 0.064
	16 : 9	minimum	L (m) = (diagonal screen size in inches) x 0.0403 - 0.065
		maximum	L (m) = (diagonal screen size in inches) x 0.0532 - 0.064
ET-DLE200	4 : 3	minimum	L (m) = (diagonal screen size in inches) x 0.0504 - 0.066
		maximum	L (m) = (diagonal screen size in inches) x 0.0824 - 0.076
	16 : 9	minimum	L (m) = (diagonal screen size in inches) x 0.0549 - 0.066
		maximum	L (m) = (diagonal screen size in inches) x 0.0898 - 0.076
ET-DLE300	4 : 3	minimum	L (m) = (diagonal screen size in inches) x 0.0795 - 0.138
		maximum	L (m) = (diagonal screen size in inches) x 0.1232 - 0.131
	16 : 9	minimum	L (m) = (diagonal screen size in inches) x 0.0866 - 0.138
		maximum	L (m) = (diagonal screen size in inches) x 0.1342 - 0.131
ET-DLE400	4 : 3	minimum	L (m) = (diagonal screen size in inches) x 0.1176 + 0.024
		maximum	L (m) = (diagonal screen size in inches) x 0.1646 + 0.065
	16 : 9	minimum	L (m) = (diagonal screen size in inches) x 0.1281 + 0.024
		maximum	L (m) = (diagonal screen size in inches) x 0.1793 + 0.065
ET-DLE050	4 : 3	(fixed focus)	L (mm) = (diagonal screen size in inches) x 16.6 - 36.1
	16 : 9	(fixed focus)	L (mm) = (diagonal screen size in inches) x 18.1 - 36.1

DLP™-Based Projector

PT-D3500

Calculation of the projection distance:

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

| ET-DLE100 | 4 : 3 | minimum | L (m) = (diagonal screen size in inches) x 27.6 - 45 |
| | | maximum | L (m) = (diagonal screen size in inches) x 37.2 - 48 |

| Supplied lens | 4 : 3 | minimum | L (m) = (diagonal screen size in inches) x 37.0 - 65 |
| | | maximum | L (m) = (diagonal screen size in inches) x 48.8 - 64 |

| ET-DLE200 | 4 : 3 | minimum | L (m) = (diagonal screen size in inches) x 50.4 - 66 |
| | | maximum | L (m) = (diagonal screen size in inches) x 82.4 - 76 |

| ET-DLE300 | 4 : 3 | minimum | L (m) = (diagonal screen size in inches) x 79.5 - 138 |
| | | maximum | L (m) = (diagonal screen size in inches) x 123.2 - 131 |

| ET-DLE400 | 4 : 3 | minimum | L (m) = (diagonal screen size in inches) x 117.6 + 24 |
| | | maximum | L (m) = (diagonal screen size in inches) x 164.6 + 65 |

| ET-DLE050 | 4 : 3 | (fixed focus) | L (m) = (diagonal screen size in inches) x 16.6 - 36.1 |