Touchboards

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Promethean Projectors

Product Specifications

SHORT THROW, ULTRA SHORT THROW AND EXTREME SHORT THROW PROJECTORS

PRM-32 Projector

PRM-45 projector

EST-P1 projector

UST-P1 projector

THIS DOCUMENT CONTAINS SPECIFICATIONS FOR

Promethean Projectors

DESCRIPTION

Choice of Extreme Short Throw, Ultra Short Throw or Short Throw projectors.

SYSTEM OVERVIEW

Installation	The installation of this product should be completed by a Promethean Certified Installer. Components supplied and minimum specifications stated have been tested and are required for optimal performance. Use of components not supplied by Promethean or not meeting minimum specifications may impact performance and affect warranty. Contact your Promethean partner or visit www.PrometheanKB.com for more information
Warranty†	For Promethean Warranty Information and Terms and Conditions please visit: www.PrometheanWorld.com/Warranty
Support	Online Support for all Promethean Products available from: www.PrometheanKB.com

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PROJECTOR SPECIFICATIONS

Model	PRM-32 (DLP)	PRM-45 (DLP)	EST-P1 (DLP)	UST-P1 (DLP)
Native Resolution	XGA 4:3 (1024 x 768)	WXGA 16:10 (1280 x 800)	WXGA 16:10 (1280 x 800)	WXGA 16:10 (1280 x 800)
Compressed Resolution	up to 1080i	Up to 1080i	up to 1080i	up to 1080i
Typical Colors	16.77 million colors	16.77 million colours	16.77 million colors	16.77 million colors
Aspect Ratio	Fill, 4:3, 16:9, Letterbox, Native	Fill, 4:3, 16:9, Letterbox, Native	Fill, 4:3, 16:9, Letterbox, Native	Fill, 4:3, 16:9, Letterbox, Native
Contrast Ratio	2000:1	2100:1	2000:1	3000:1
Brightness Normal	2300 ANSI Lumens (220W)	3150 ANSI Lumens (240W)	2850 ANSI Lumens (230W)	3000 ANSI Lumens (230W)
Brightness Eco	2000 ANSI Lumens (190W)	2750 ANSI Lumens (190W)	2200 ANSI Lumens (200W)	2500 ANSI Lumens (200W)
Throw Ratio	0.52	0.52	0.19	0.35
Focal Length	F=2.87	F=2.86	F=2.4	F=2.5
Projection Distance	0.54m ~ 1.22m (21.3in ~ 48in)	0.54m ~ 1.22m (21.3in ~ 48in)	0.39m ~ 0.56m (15in ~ 22in)	0.34m ~ 0.42m (13.4in ~ 16.5in)
Projection Screen Size	1.27m ~ 2.79m (50in ~110in)	1.27m ~ 2.79m (50in ~110in)	1.98m ~2.79m (78in ~ 110in)	2.03m ~ 2.5m (80in ~ 100in)
Lamp Type	220W	240W	220W	230W
Lamp Life Normal	4000	4000	4000	5000
Lamp Life Eco	6000	6000	6000	8000
Lamp Life Dynamic Eco	N/A	7000	N/A	N/A
Acoustic Noise Normal	36dB (220W)	36dB (220W)	31dB (220W)	33dB (220W)
Acoustic Noise Eco	33dB (190W)	32dB (190W)	27dB (190W)	29dB (190W)
Power Supply & Consumption High	280W	330W	290W	300W
Standby	<1W excluding RJ45	<0.5W excluding RJ45	<1W excluding RJ45	<0.5W excluding RJ45

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PROJECTOR SPECIFICATIONS (CONTINUED)

	PRM-32 (DLP)	PRM-45 (DLP)	EST-P1 (DLP)	UST-P1 (DLP)
Model				
Input/Output VGA				
	D-sub 15 (RGB) x 2	D-sub 15 (RGB) x 2	D-sub 15 (RGB) x 2	D-sub 15 (RGB) x 2
Video				
	Composite video (RCA) x	Composite video (RCA) x	Composite video (RCA) x	Composite video (RCA) x
S-Video	x1	x1	x1	x1
HDMI	None	HDMI V1.4a	HDMI V1.3	HDMI V1.4a
Audio in	None	Mini jack x1	None	Mini jack x1
Audio out	None	Mini jack x1	None	Mini jack x1
Control terminals USB	x1	x1	x1	x1
RS-232	None	x1	x1	x1
RJ-45	x1	x1	x1	x1
Promethean System Mount	Yes	Yes	Yes	Yes
Fixed	No	Yes	Yes	Yes
Adjustable	No	Yes	Yes	Yes
Mobile	No	No	Yes	No
Dimensions (w x d x h)	306mm x 216mm x 97mm (12in x 8.5in x 3.8in)	319mm x 205mm x 96mm (12.6in x 8in x 3.8in)	354mm x 319mm x 157mm (13.9in x 12.6in x 6.1in) without mirror 354mm x 411mm x 219mm (13.9in x 16.1in x 8.6in) including mirror	287.5mm x 374.5mm x 122.6mm (11.3in x 14.7in x 4.8in) without mirror 287.5mm x 374.5mm x 160mm (11.3in x 14.7in x 6.3in) including mirror
Weight	2.7kg (6lb)	2.7kg (6lb)	9kg (19.8lb)	4.8kg (10.6lb)
Colour	Silver	White	Silver	Dark Grey
Device Type	DLP	DLP	DLP	DLP
Focus	Manual Focus	Manual focus	Manual Focus	Manual Focus
Zoom	Digital Zoom	Digital zoom	N/A	N/A
Keystone Correction	Vertical: max ±15º	Vertical: max ±15º	Vertical: max ±15º	Vertical: max ±15º
Operating Temperature	5ºC ~ 35ºC (41ºF ~ 95ºF)	5ºC ~ 40ºC (41ºF ~ 104ºF)	5ºC ~ 35ºC (41ºF ~ 95ºF)	5ºC ~ 35ºC (41ºF ~ 95ºF)
Horizontal Scan Rate	15Hz ~ 90kHz	15Hz ~ 90 kHz	15Hz ~ 90kHz	15Hz ~ 90kHz
Vertical Scan Rate	50Hz ~ 85Hz	47Hz ~ 120Hz	43Hz ~ 85Hz	24Hz ~ 120Hz

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PROJECTOR SPECIFICATIONS (CONTINUED)

	PRM-32 (DLP)	PRM-45 (DLP)	EST-P1 (DLP)	UST-P1 (DLP)
Model				
Computer Compatibility	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)
Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)
Security	Kensington Lock, Security cable bar option, pin code security, remote control operated only	Kensington Lock, Security cable bar option, pin code security, remote control operated only	Kensington Lock, Security cable bar option, pin code security, remote control operated only	Kensington Lock, Security cable bar option, pin code security, remote control operated only
On-screen menu	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish
Advanced Features	3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption	3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption	3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption	3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption
Packed Contents List	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)
Pack Weights and Dimensions	Box 1 of 1: 4.1kg (9lb) Dimensions: 408mm x 290mm x 197mm (16.1in x 11.4in x 7.8in) Contents: Projector	Box 1 of 1: 4.7kg (10.4lb) Dimensions: 381mm x 304mm x 193mm (15in x 12in x 7.6in) Contents: Projector	Box 1 of 1: 12.8kg (28.2lb) Dimensions: 516mm x 596mm x 356mm (20.3in x 23.5in x 14.0in) Contents: Projector	Box 1 of 1: 9kg (19.8lb) Dimensions: 440mm x 519mm x 291mm (17.3in x 20.4in x 11.5in) Contents: Projector

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