

# Projectors

SHORT THROW, ULTRA SHORT THROW AND EXTREME SHORT THROW PROJECTORS

# PRODUCT SPECIFICATIONS



PRM-32 Projector



PRM-45 projector



EST-P1 projector



UST-P1 projector

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## THIS DOCUMENT CONTAINS SPECIFICATIONS FOR

Projectors

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## DESCRIPTION

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

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## SYSTEM OVERVIEW

<b>Installation</b>	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 <a href="http://www.PrometheanKB.com">www.PrometheanKB.com</a> for more information.
<b>Warranty</b>	For Promethean Warranty Terms and Conditions please visit: <a href="http://www.PrometheanWorld.com/ActivCare">www.PrometheanWorld.com/ActivCare</a>
<b>Support</b>	Online Support for all Promethean Products available from: <a href="http://www.PrometheanKB.com">www.PrometheanKB.com</a>

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# Touchboards

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# Projectors

## PROJECTOR SPECIFICATIONS

## PRODUCT SPECIFICATIONS



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

# Projectors

## PROJECTOR SPECIFICATIONS (CONTINUED)

## PRODUCT SPECIFICATIONS



Model	PRM-32 (DLP)	PRM-45 (DLP)	EST-P1 (DLP)	UST-P1 (DLP)
<b>Input/Output VGA</b>	D-sub 15 (RGB) x2	D-sub 15 (RGB) x2	D-sub 15 (RGB) x2	D-sub 15 (RGB) x2
<b>Video</b>	Composite video (RCA) x1	Composite video (RCA) x1	Composite video (RCA) x1	Composite video (RCA) x1
<b>S-Video</b>	x1	x1	x1	
<b>HDMI</b>	None	HDMI V1.4a	HDMI V1.3	HDMI V1.4a
<b>Audio in</b>	None	Mini jack x1	None	Mini jack x1
<b>Audio out</b>	None	Mini jack x1	None	Mini jack x1
<b>Control terminals USB</b>	x1	x1	x1	x1
<b>RS-232</b>	None	x1	x1	x1
<b>RJ-45</b>	x1	x1	x1	x1
<b>Promethean System Mount</b>	Yes	Yes	Yes	Yes
<b>Fixed</b>	No	Yes	Yes	Yes
<b>Adjustable</b>	No	Yes	Yes	Yes
<b>Mobile</b>	No	No	Yes	No
<b>Dimensions (w x d x h)</b>	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
<b>Weight</b>	2.7kg (6lb)	3.18kg (7lb)	9kg (19.8lb)	4.8kg (10.6lb)
<b>Colour</b>	Silver	White	Silver	Dark Grey
<b>Device Type</b>	DLP	DLP	DLP	DLP
<b>Focus</b>	Manual Focus	Manual focus	Manual Focus	Manual Focus
<b>Zoom</b>	Digital Zoom	Digital zoom	N/A	N/A
<b>Keystone Correction</b>	Vertical: max ±15°	Vertical: max ±15°	Vertical: max ±15°	Vertical: max ±15°
<b>Operating Temperature</b>	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 40°C (41°F ~ 104°F)	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 40°C (41°F ~ 104°F)
<b>Horizontal Scan Rate</b>	15Hz ~ 90kHz	15Hz ~ 90 kHz	15Hz ~ 90kHz	15Hz ~ 90kHz
<b>Vertical Scan Rate</b>	50Hz ~ 85Hz	47Hz ~ 120Hz	43Hz ~ 85Hz	24Hz ~ 120Hz

# Projectors

## PROJECTOR SPECIFICATIONS (CONTINUED)

# PRODUCT SPECIFICATIONS



**Model**

**PRM-32 (DLP)**

**Computer Compatibility**

IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WXGA+ (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)

**Security**

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

**Advanced Features**

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)

**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



**PRM-45 (DLP)**

IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WXGA+ (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)

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)

Kensington Lock, Security cable bar option, pin code security, remote control operated only

Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish

3D Ready  
Crestron RoomView Express  
Quick Lamp Access  
Direct power on/off  
Closed Caption

Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)

Box 1 of 1: 4.7kg (10.4lb)  
Dimensions:  
381mm x 304mm x 193mm  
(15in x 12in x 7.6in)  
Contents: Projector



**EST-P1 (DLP)**

IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WXGA+ (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)

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)

Kensington Lock, Security cable bar option, pin code security, remote control operated only

Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish

3D Ready  
Crestron RoomView Express  
Quick Lamp Access  
Direct power on/off  
Closed Caption

Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)

Box 1 of 1: 12.8kg (28.2lb)  
Dimensions:  
516mm x 596mm x 356mm  
(20.3in x 23.5in x 14.0in)  
Contents: Projector



**UST-P1 (DLP)**

IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WXGA+ (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)

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)

Kensington Lock, Security cable bar option, pin code security, remote control operated only

Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish

3D Ready  
Crestron RoomView Express  
Quick Lamp Access  
Direct power on/off  
Closed Caption

Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)

Box 1 of 1: 9kg (19.8lb)  
Dimensions:  
440mm x 519mm x 291mm  
(17.3in x 20.4in x 11.5in)  
Contents: Projector