**PRM-32 Projector**

**PRM-45 projector**

**EST-P1 projector**

**UST-P1 projector**

## THIS DOCUMENT CONTAINS SPECIFICATIONS FOR

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 Terms and Conditions please visit: **www.PrometheanWorld.com/ActivCare** |
| **Support** | Online Support for all Promethean Products available from: **www.PrometheanKB.com** |

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# Projectors

## 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** | 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 |
| **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)

| Model | PRM-32 (DLP) | PRM-45 (DLP) | EST-P1 (DLP) | UST-P1 (DLP) |
|---|---|---|---|---|
| **Input/Output VGA** | D-sub 15 (RGB) x2 | D-sub 15 (RGB) x2 | D-sub 15 (RGB) x2 | D-sub 15 (RGB) x2 |
| **Video** | Composite video (RCA) x1 | Composite video (RCA) x1 | Composite video (RCA) x1 | Composite video (RCA) x1 |
| **S-Video** | 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) | 3.18kg (7lb) | 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 ±15° | Vertical: max ±15° | Vertical: max ±15° | Vertical: max ±15° |
| **Operating Temperature** | 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) |
| **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)

| Model | PRM-32 (DLP) | PRM-45 (DLP) | EST-P1 (DLP) | UST-P1 (DLP) |
|---|---|---|---|---|
| **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 |

Projectors SS 10/14 V2.3 US

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