# ActivBoard 500 **PRO** Fixed System

INTERACTIVE DISPLAY

**ActivBoard 500 Pro Fixed with PRM-30a or PRM-35 projector**

**ActivBoard 500 Pro Fixed with EST-P1 projector**

## THIS DOCUMENT CONTAINS SPECIFICATIONS FOR

ActivBoard
Fixed Frame
Projector

## DESCRIPTION

The ActivBoard 500 Pro with Dual-User Pen and Touch capability is available in 78″, 87″ and 95″ versions with integrated slim-line speakers and amplifier, ActivInspire Professional Edition, Promethean ActivOffice and Promethean Applications software. The Fixed System includes a fixed wall mount and choice of Extreme Short Throw or Short Throw projector.

## SYSTEM OVERVIEW

| | |
|---|---|
| **Installation** | The installation of this product should be completed by a Promethean Certified Installer. Please visit www.PrometheanWorld.com/ActivCare/installationtc. 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 please visit: www.PrometheanWorld.com/ActivCare |
| **Support** | Online Support for all Promethean Products available from: www.PrometheanKB.com |
| **Complete System Weight (approx.)** | **ActivBoard 578 Pro including;** PRM-30a Projector 75.1kg (165.6lb) PRM-35 Projector 72.1kg (159lb) **ActivBoard 587 Pro including;** PRM-30a Projector 78.1kg (172.2lb) PRM-35 Projector 75.1kg (165.6lb) **ActivBoard 595 Pro including;** PRM-30a Projector 80.2kg (176.8lb) PRM-35 Projector 77.2kg (170.2lb)      **ActivBoard 578 Pro including;** EST-P1 76.8kg (169.3lb) **ActivBoard 587 Pro including;** EST-P1 Projector 79.8kg (175.9lb) **ActivBoard 595 Pro including;** EST-P1 Projector 81.9kg (180.6lb) |

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## UPGRADE AND ACCESSORY OPTIONS

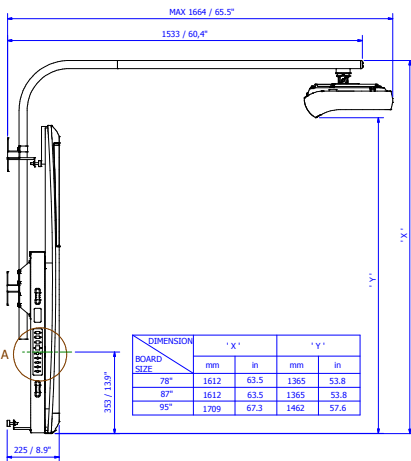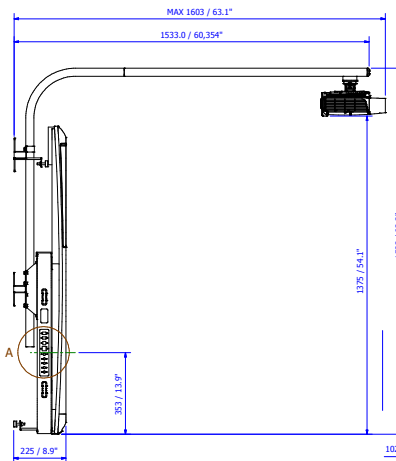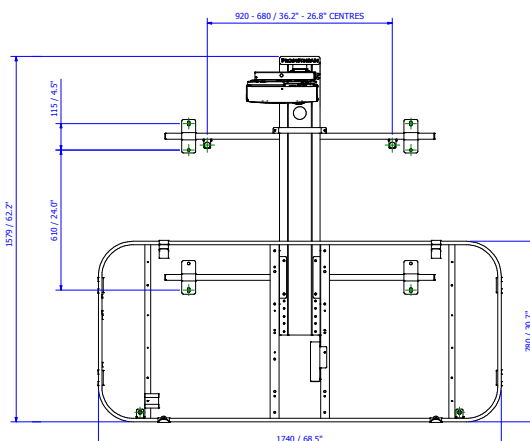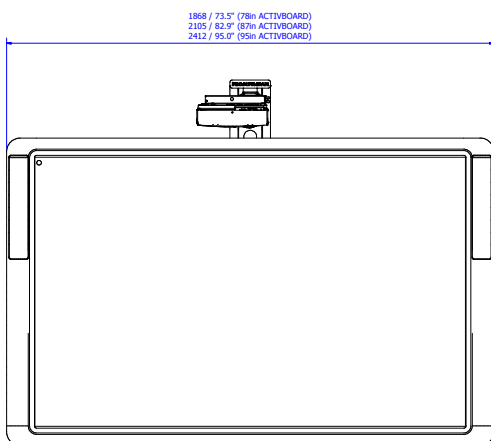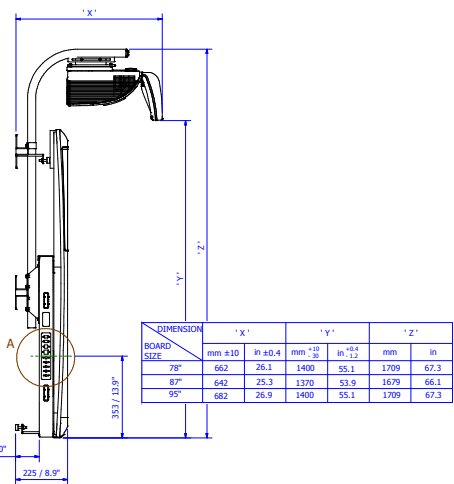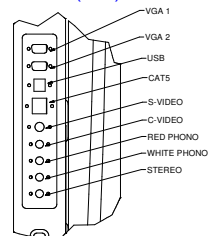| | |
|---|---|
| **Cable Wall Box** | Connectivity box with inputs for 2 x fully wired VGA (to support VESA DDC) plus 3.5mm stereo jack audio inputs, USB-B input (for ActivBoard), S-Video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input. Allows additional flexibility during installation, where the computer is located further away from the System |
| **ActivWand 50** | Wireless, battery-free and extended reach input device for the ActivBoard – 540mm (21.2in) in length; "left click", cursor and hover, just like a mouse |
| **Dry Erase Whiteboard** | Optional dry erase whiteboard, can use 1 or 2 dry erase whiteboards per System |
| **ActivBoard System Shelf** | Storage for 1 laptop, with a maximum size of a standard 43cm (17in) laptop. Lockable System Shelf also available as an option |

## TECHNICAL DRAWING

### PRM-30a



MAX 1664 / 65.5"
1533 / 60,4"
353 / 13.9"
225 / 8.9"

| DIMENSION | 'X' | | 'Y' | |
|---|---|---|---|---|
| BOARD SIZE | mm | in | mm | in |
| 78" | 1612 | 63.5 | 1365 | 53.8 |
| 87" | 1612 | 63.5 | 1365 | 53.8 |
| 95" | 1709 | 67.3 | 1462 | 57.6 |

### PRM-35



MAX 1603 / 63.1"
1533.0 / 60,354"
1582 / 62.3"
1375 / 54.1"
353 / 13.9"
225 / 8.9"
102.0 / 4,0"

### EST-P1



'X'
353 / 13.9"
225 / 8.9"

| DIMENSION | 'X' | | 'Y' | | 'Z' | |
|---|---|---|---|---|---|---|
| BOARD SIZE | mm ±10 | in ±0.4 | mm +10 -35 | in +0.4 -1.2 | mm | in |
| 78" | 662 | 26.1 | 1400 | 55.1 | 1709 | 67.3 |
| 87" | 642 | 25.3 | 1370 | 53.9 | 1679 | 66.1 |
| 95" | 682 | 26.9 | 1400 | 55.1 | 1709 | 67.3 |



1868 / 73.5" (78in ACTIVBOARD)
2105 / 82.9" (87in ACTIVBOARD)
2412 / 95.0" (95in ACTIVBOARD)



920 - 680 / 36.2" - 26.8" CENTRES
115 / 4.5"
610 / 24.0"
1579 / 62.2"
780 / 30.7"
1740 / 68.5"

### DETAIL A ( 1 : 2 )



- VGA 1
- VGA 2
- USB
- CAT5
- S-VIDEO
- C-VIDEO
- RED PHONO
- WHITE PHONO
- STEREO

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## ACTIVBOARD GENERAL SPECIFICATIONS

| | |
|---|---|
| **Model** | ActivBoard 500 Pro Range |
| **Pen Internal Resolution** | 2730 points (lines) per inch |
| **Pen Output Resolution** | 200 points (lines) per inch |
| **Pen Tracking Rate** | 200 inches per second providing a fast response to pen commands |
| **Pen Output Rate** | 160 coordinate pairs per second (single user)<br>80 coordinate pairs per second (dual user) |
| **User Input** | Cordless battery-free pen incorporating tip switch and side switch for full mouse functionality (ActivPen) and touch |
| **Touch Resolution** | 200 points (lines) per inch |
| **Touch Output Rate** | 80 coordinate pairs per second |
| **Touch Response Rate** | 10 ms |
| **Maximum Simultaneous Touches** | 2 with ActivInspire<br>4 with Windows 7 |
| **Digitizing Technology** | Passive Electromagnetic and Capacitive sensing interface |
| **Power Requirement** | Mains Powered; 18V Power Supply Unit |
| **Connection to Computer** | USB 2.0, 1 x 3m USB 2.0 data cable supplied |
| **Connection to Peripherals** | 2 x USB ports on left hand side |
| **Screen Surface** | Low Glare Melamine |
| **Certifications** | UL, CE, FCC |
| **Operating Temperature Range** | 0°C to +40°C (32°F to 104°F) |
| **Storage Temperature Range** | -20°C to +60°C (-4°F to 140°F) |
| **Storage Humidity** | 10% to 90% (non-condensing) |
| **Dual User Functionality** | **Pen:** 1 Instructor ActivPen and 1 Participant ActivPen can be used together in Dual-User Mode when using ActivInspire 1.5 Professional Edition and above<br>**Pen and Touch:** 1 Participant ActivPen and simultaneous additional two-touch gesture supported when using ActivInspire 1.5 Professional Edition and above |
| **Single User Functionality** | **Pen:** 1 Instructor ActivPen<br>**Touch:** Two-touch gesture supported when using ActivInspire 1.5 Professional Edition and above |
| **Integrated USB Sound** | Two integrated slim-line speakers and amplifier (with controls, inputs and outputs) |
| **Packed Contents List** | ActivBoard 587 Pro or ActivBoard 595 Pro, 2 Instructor ActivPens, 2 Participant ActivPens, 1 AMP PSU, Wall Mounting Brackets, User Guide, Access to ActivInspire Professional Edition, Promethean ActivOffice and Promethean Applications via download. (ActivInspire Professional Edition is also available on DVD on request), 1 x 3m USB data cable |

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# ActivBoard 500 PRO
### INTERACTIVE DISPLAY

## INTEGRATED USB SOUND SPECIFICATIONS

| | |
|---|---|
| **Amplifier Power Output** | 20W per channel RMS (<1% distortion) |
| **Controls** | Volume, Bass, Treble, on/off |
| **Amplifier Frequency Response** | 40Hz to 18kHz +/-3dB (at 1W) |
| **USB Sound** | USB Sound supported for Minimum System Requirements stated |
| **Connectivity – Inputs (4)** | Stereo PC, Stereo CD/DVD, Mono Auxiliary, Microphone to PC |
| **Connectivity – Outputs (2)** | 2 Stereo |
| **Power Requirement** | 18V 5 Amp |

## ACTIVBOARD SPECIFICATIONS

| Model | ActivBoard 578 Pro | ActivBoard 587 Pro | ActivBoard 595 Pro |
|---|---|---|---|
| **ActivBoard Size** | 78in | 87in | 95in |
| **Resolution** | 12800 x 9200 | 14600 x 9200 | 17200 x 9200 |
| **Screen Formats** | 4:3 | 16:10 | 16:9 |
| **Overall Dimensions** | 1868mm x 1329mm 973.5in x 52.3in) | 2105mm x 1329mm (82.9in x 52.3in) | 2336mm x 1329mm (92in x 52.3in) |
| **Active Area Dimensions** | 1628mm x 1175mm (64in x 46in) | 1865mm x 1175mm (73.4in x 46.3in) | 2095mm x 1175mm (82.5in x 46.3in) |
| **Active Area Diagonal** | 2000mm (78.7in) | 2196mm (86.5in) | 2394mm (94.3in) |
| **Actual Image Diagonal** | 1958mm (77.1in) | 2193mm (86.4in) | 2392mm (94.2in) |
| **Board Weight** | 37kg (81.6lb) | 40kg (88lb) | 48kg (106lb) |
| **Packed Weight** | 52kg (114.6lb) | 57kg (126lb) | 65kg (143lb) |
| **Packed Dimensions** | 2025mm x 1500mm x 110mm (79.9in x 59in x 4.3in) | 2270mm x 1500mm x 110mm (89.4in x 59.1in x 4.3in) | 2572 mm x 1495mm x 110mm (101.3in x 58.9in x 4.33in) |

## MINIMUM COMPUTER REQUIREMENTS

| | |
|---|---|
| **Operating Systems** | Windows XP SP3 and above (XP/Vista/7); Mac OSX 10.4.11 – 10.6.4 (Tiger/Leopard/Snow Leopard); Linux Ubuntu 9.10 or 10.04; Debian Lenny; Linex Colegios 2010; Linkat 3; ALT_Linux (Russia) |
| **PC** | 2.0 GHz Intel Core 2 Duo or faster for HD-quality videos, 1 GB of RAM is required to play HD-quality videos, 1024 x 768 resolution, 1.5 GB of Free Disk Space |
| **Mac** | 2.0 GHz Intel Core 2 Duo, 512 MB of RAM, 1024 x 768 resolution, 3.0 GB of Free Disk Space |
| **Linux** | 2.0 GHz Processor or faster for HD-quality videos, 1 GB of RAM is required to play HD-quality videos, 1024 x 768 resolution, 1.5 GB of Free Disk Space |

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## FIXED FRAME SPECIFICATIONS

| Projector Type | Short Throw | Extreme Short Throw |
|---|---|---|
| Projector Mount | Aluminum arm, extends 1533 mm (60.4in) from the wall | Aluminum arm, extends 550mm (21.7in) from the wall |
| Integrated Power Management | For ActivBoard and projector | For ActivBoard and projector |
| Frame Weight (approx.) | Frame only: 31kg (68.3lb) excl. board, projector and cabling | Frame only: 29.6kg (65.3lb) excl. board, projector and cabling |
| Connectivity Panel | Connectivity panel with inputs for 2 x fully wired VGA (to support VESA DDC) plus 3.5mm stereo jack audio inputs, USB-B input (for ActivBoard), S-Video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input. Connectivity panel can be mounted on the left or right-hand side of the frame. | Connectivity panel with inputs for 2 x fully wired VGA (to support VESA DDC) plus 3.5mm stereo jack audio inputs, USB-B input (for ActivBoard), S-Video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input. Connectivity panel can be mounted on the left or right-hand side of the frame. |
| Cables | Cable assembly includes; 2 x 4m (13.1ft) VGA panel mount (fully wired to support VESA DDC), 4m (13.1ft) S-Video panel mount, 4m (13.1ft) composite video panel mount, 4m (13.1ft) Ethernet panel mount, 2.8m (9.2ft) USB cable, 2.5m (8.2ft) right angle stereo jack to panel mount jack socket, 2.5m (8.2ft) right angle stereo jack to panel mount phono pair, for PC audio input. To connect the computer to the face plate: 2m (6.6ft) USB patch cable; and a 2m (6.6ft) VGA cable provided in the projector box | Cable assembly includes; 2 x 4m (13.1ft) VGA panel mount (fully wired to support VESA DDC), 4m (13.1ft) S-Video panel mount, 4m (13.1ft) composite video panel mount, 4m (13.1ft) Ethernet panelmount, 2.8m (9.2ft) USB cable, 2.5m (8.2ft) right angle stereo jack to panel mount jack socket, 2.5m (8.2ft) right angle stereo jack to panel mount phono pair, for PC audio input. To connect the computer to the face plate: 2m (6.6ft) USB patch cable; and a 2m (6.6ft) VGA cable provided in the projector box |
| Pack Weight & Dimensions | **Box 1 of 2:** approx. 23.6kg (52lb) Dimensions: 217mm x 1427mm x 467mm (8.54in x 56.18in x 18.39in) Contents: Boom<br>**Box 2 of 2:** approx. 15kg (33.1lb) Dimensions: 128mm x 1782mm x 822mm (5.04in x 70.16in x 32.36in) Contents: Frame | **Box 1 of 2:** approx. 20kg (44.1lb) Dimensions: 217mm x 1427mm x 467mm (8.54in x 56.18in x 18.39in) Contents: Boom<br>**Box 2 of 2:** approx. 15kg (33.1lb) Dimensions: 128mm x 1782mm x 822mm (5.04in x 70.16in x 32.36in) Contents: Frame |

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## PROJECTOR SPECIFICATIONS

| Model | EST-P1 (DLP) | PRM-35 (DLP) | PRM-30a (LCD) |
|---|---|---|---|
| Native Resolution | WXGA (1280 x 800) | WXGA (1280 x 800) | WXGA (1280 x 800) |
| Compressed Resolution | up to 1080i | up to 1080i | up to 1080i |
| Typical Colors | 16.77 million colors | 16.77 million colors | 16.77 million colors |
| Brightness (ANSI lumens) | 2200 ANSI (normal)<br>2500 ANSI (high) | 2100 ANSI (normal)<br>2500 ANSI (high) | 1900 ANSI (normal)<br>2500 ANSI (high) |
| Contrast Ratio | 2000:1 | 2000:1 | 500:1 |
| Noise Level | 27dB (normal)<br>31dB (high brightness mode) | 32dB (normal)<br>36dB (high brightness mode) | 29dB (normal)<br>36dB (high brightness mode) |
| Dimensions (w x d x h) | 354mm x 319mm x 157mm<br>(13.9in x 12.6in x 6.1in) not including lens<br>354mm x 411mm x 219mm<br>(13.9in x 16.1in x 8.6in) including lens | 306mm x 275mm x 97mm<br>(12in x 3.8in x 10.1in) | 382mm x 430mm x 129mm<br>(15in x 16.9in x 5in) |
| Weight | 9kg (19.8lb) | 2.7kg (6lb) | 5.7kg (12.5lb) |
| Aspect Ratio | 16:10 (native), 4:3, 16:9 | 16:10 (native), 4:3, 16:9 | 16:10 (native), 4:3, 16:9 |
| Power Consumption | 290W (<1W standby) | 230W (<1W standby) | 317W (<0.8W standby) |
| Device Type | DLP Technology | DLP Technology | LCD Technology |
| Focus | Manual Focus | Manual Focus | Manual Focus |
| Zoom | N/A | Digital Zoom | Digital Zoom |
| Focal Length | F=2.4 | F=2.86 | Fixed |
| Projection Distance | 0.39m ~ 0.56m (15in ~ 22in) | 0.54m ~ 1.22m (21.3in ~ 48in) | 0.54m ~ 1.22m (21.3in ~ 48in) |
| Projection Screen Size | 1.98m ~2.79m (78in ~ 110in) | 1.27m ~ 2.79m (50in ~110in) | 1.27m ~ 2.79m (50in ~110in) |
| Lamp Type | 220W lamp | 230W lamp | 230W lamp |
| Lamp Life | 6000hrs (normal), 4000hrs (high) | 6000hrs (normal), 4000hrs (high) | 4000 hrs (normal), 3000 hrs (high) |
| Keystone Correction | Vertical: max ±15º | Vertical: max ±15º | Vertical: max ±20º |
| Operating Temperature | 5ºC ~ 35ºC (41ºF ~ 95ºF) | 5ºC ~ 35ºC (41ºF ~ 95ºF) | 5ºC ~ 35ºC (41ºF ~ 95ºF) |
| Power Supply Voltage | 100 - 240V AC, 50/60Hz | 100 ~ 240V AC, 50/60Hz | 100 ~ 240V AC, 50/60Hz |
| Horizontal Scan Rate | 15Hz ~ 90kHz | 15Hz ~ 90kHz | 15Hz ~ 90kHz |
| Vertical Scan Rate | 43Hz ~ 85Hz | 50Hz ~ 85Hz | 50Hz ~ 85Hz |

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## PROJECTOR SPECIFICATIONS (CONTINUED)

| | | | |
|---|---|---|---|
| **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) |
| **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) |
| **Inputs/Outputs** | D-sub 15 (RGB) x 2<br>D-sub 15 (Monitor out) x 1<br>HDMI V1.3 only for Video x 1<br>S-Video x 1<br>Composite Video (RCA) x 1<br>USB control x 1<br>Networking LAN (RJ45) x 1<br>RS-232C (D-sub 9) x 1 | D-sub 15 (RGB) x 2<br>D-sub 15 (Monitor out) x 1<br>HDMI V.1.3 only for Video x 1<br>S-Video x 1<br>Composite Video (RCA) x 1<br>USB control x1<br>Networking LAN (RJ45) x 1<br>RS-232C (D-sub 9) x 1 | D-sub 15 (RGB) x 1<br>D-sub 15 (RGB) selectable x 1<br>HDMI (Digital RGB) x 1<br>S-Video x 1<br>Composite Video (RCA) x 1<br>RCA (white/red) x 1<br>Networking LAN (RJ45) x 1<br>RS-232C (D-sub 9) x 1<br>Stereo mini-jack x 1 |
| **Color** | Silver | Silver | Silver |
| **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 |
| **On-screen Menu** | 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, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish | Arabic, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Kazak, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Spanish, Swedish, Turkish |
| **Advanced Features** | Filter-less<br>3D Ready<br>Crestron RoomView Express<br>Quick Lamp Access<br>Direct power on/off<br>Closed Caption | Filter-less<br>3D Ready<br>Crestron RoomView Express<br>Quick Lamp Access<br>Direct power on/off<br>Closed Caption | Long Life Filter – 4000hrs<br>Crestron RoomView Express<br>Cable Management Cover<br>Quick Lamp Access<br>Direct power on/off<br>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) |
| **Pack Weights and Dimensions** | **Box 1 of 1:** 13.5kg (29.7lb)<br>Dimensions: 572mm x 496mm x 310mm (22.5in x 19.5in x 12.2in)<br>Contents: Projector | **Box 1 of 1:** 4.9kg (10.8lb)<br>Dimensions: 396mm x 341mm x 181mm (15.5in x 13.4in x 7.1in)<br>Contents: Projector | **Box 1 of 1:** 9.5kg (20.9lb)<br>Dimensions: 510mm x 470mm x 240mm (20in x 18.5in x 9.4in)<br>Contents: Projector |

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