

# ActivBoard 500 PRO Fixed System

## Product Specifications

### INTERACTIVE WHITEBOARD SYSTEM

ActivBoard 500 Pro combines the latest multi-touch interactive whiteboard technology with dynamic and intuitive Dual-User Pen and Touch capability. It is designed to deliver a new generation of applications and emerging multi-touch content standards. The ActivBoard 500 Pro is available in both 87" and 95" versions with integrated slim-line speakers and amplifier, ActivInspire 1.5 Professional Edition, Promethean ActivOffice and Promethean Applications software. The Fixed System also includes a fixed wall mount and a choice of Extreme Short Throw or Short Throw projectors.

### ACTIVBOARD GENERAL SPECIFICATIONS

<b>Model</b>	ActivBoard 500 Pro Range
<b>Pen Internal Resolution</b>	2730 points (lines) per inch
<b>Pen Output Resolution</b>	200 points (lines) per inch
<b>Pen Tracking Rate</b>	200 inches per second providing a fast response to pen commands
<b>Pen Output Rate</b>	160 coordinate pairs per second (single user) 80 coordinate pairs per second (dual user)
<b>User Input</b>	Cordless battery-free pen incorporating tip switch and side switch for full mouse functionality (ActivPen) and touch
<b>Touch Resolution</b>	18 points (lines) per inch
<b>Touch Output Rate</b>	80 coordinate pairs per second
<b>Touch Response Rate</b>	10 ms
<b>Maximum Simultaneous Touches</b>	2 with ActivInspire 1.5 Professional Edition 4 with Windows 7
<b>Digitizing Technology</b>	Passive Electromagnetic and Capacitive sensing interface encased behind robust melamine for technical reliability and durability
<b>Power Requirement</b>	Mains Powered; 18V Power Supply Unit
<b>Connection to Computer</b>	1 x 3m USB data cable supplied
<b>Connection to Peripherals</b>	2 x USB ports on left hand side
<b>Screen Surface</b>	Low Glare Melamine
<b>Certifications</b>	UL, CE, FCC
<b>Operating Temperature Range</b>	0°C to +40°C (32°F to 104°F)
<b>Storage Temperature Range</b>	-20°C to +60°C (-4°F to 140°F);
<b>Storage Humidity</b>	10% to 90% (non-condensing)
<b>Dual User Functionality</b>	<b>Pen:</b> 1 Teacher ActivPen and 1 Student ActivPen can be used together in Dual-User Mode when using ActivInspire 1.5 Professional Edition <b>Pen and Touch:</b> 1 Student ActivPen and simultaneous additional two-touch gesture supported when using ActivInspire 1.5 Professional Edition
<b>Single User Functionality</b>	<b>Pen:</b> 1 Teacher ActivPen <b>Touch:</b> Two-touch gesture supported when using ActivInspire 1.5 Professional Edition



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



ActivBoard 500 Pro Fixed with EST-P1 projector

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### ACTIVBOARD GENERAL SPECIFICATIONS (CONTINUED)

<b>Integrated USB Sound</b>	Two integrated slim-line speakers and amplifier (with controls, inputs and outputs)
<b>Packed Contents List</b>	ActivBoard 587 Pro or ActivBoard 595 Pro, 2 Teacher ActivPens, 2 Student ActivPens, 1 AMP PSU, User Guide, Access to ActivInspire 1.5 Professional Edition, Promethean ActivOffice and Promethean Applications via download from Promethean Planet. (ActivInspire and Promethean ActivOffice are also available on DVD on request), 1 x 3m USB data cable

### INTEGRATED USB SOUND SPECIFICATIONS

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

### ACTIVBOARD SPECIFICATIONS

Model	ActivBoard 587 Pro	ActivBoard 595 Pro
<b>ActivBoard Size</b>	87in	95in
<b>Resolution</b>	14600 x 9200	17200 x 9200
<b>Screen Formats</b>	16:10	16:9
<b>Overall Dimensions</b>	2105mm x 1329mm (82.9in x 52.3in)	2336mm x 1329mm (92in x 52.3in)
<b>Active Area Dimensions</b>	1865mm x 1175mm (73.4in x 46.3in)	2095mm x 1175mm (82.5in x 46.3in)
<b>Active Area Diagonal</b>	2196mm (86.5in)	2394mm (94.3in)
<b>Actual Image Diagonal</b>	2193mm (86.4in)	2392mm (94.2in)
<b>Board Weight</b>	40kg (88lb)	48kg (106lb)
<b>Packed Weight</b>	57kg (126lb)	65kg (143lb)
<b>Packed Dimensions</b>	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)

### FIXED FRAME SPECIFICATIONS

<b>Projector Model</b>	PRM-30, PRM-35	EST-P1
<b>Board Size</b>	Accommodates ActivBoard 587 Pro or 595 Pro	Accommodates ActivBoard 587 Pro or 595 Pro
<b>Projector Mount</b>	Aluminium arm, extends 1605mm (63in) from the wall.	Aluminium arm, extends 550mm (21.7in) from the wall.
<b>Integrated Power Management</b>	For ActivBoard and projector	For ActivBoard and projector
<b>Frame Weight (approx.)</b>	Frame only: 28.7kg (63.3lb) excl. board, projector and cabling	Frame only: 25kg (56.7lb) excl. board, projector and cabling
<b>Complete System Weight (approx.)</b>	ActivBoard 587 Pro including; PRM-30 Projector 74.4kg (163.7lb) PRM-35 Projector 71.4lb (157.1lb) ActivBoard 595 Pro including; PRM-30 Projector 82.4kg (181.3lb) PRM-35 Projector 79.4kg (174.7lb)	ActivBoard 587 Pro including; EST-P1 Projector 74kg (162.8lb) ActivBoard 595 Pro including; EST-P1 Projector 82kg (180.4lb)
<b>Connectivity Panel</b>	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.
<b>Cables</b>	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.
<b>Pack Weight &amp; Dimensions</b>	<b>Box 1 of 2:</b> approx. 20kg (44lb) Dimensions: 217mm x 1427mm x 467mm (8.54in x 56.18in x 18.39in) Contents: Boom <b>Box 2 of 2:</b> approx. 11.6kg (25.5lb) Dimensions: 128mm x 1782mm x 822mm (5.04in x 70.16in x 32.36in) Contents: Frame	<b>Box 1 of 2:</b> approx. 15.7kg (34.5lb) Dimensions: 217mm x 1427mm x 467mm (8.54in x 56.18in x 18.39in) Contents: Boom <b>Box 2 of 2:</b> approx. 11.6kg (25.5lb) Dimensions: 128mm x 1782mm x 822mm (5.04in x 70.16in x 32.36in) Contents: Frame

### PROJECTOR SPECIFICATIONS

Model	PRM-30 (LCD)	PRM-35 (DLP)	EST-P1 (DLP)
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 Colours	16.77 million colours	16.77 million colours	16.77 million colours
Brightness (ANSI lumens)	1900lm (normal), 1500lm (normal 2), 2500lm (high)	2100 ANSI (normal) 2500 ANSI (high)	2200 ANSI (normal) 2500 ANSI (high)
Contrast Ratio	500:1	2000:1	2000:1
Noise Level	29dB (normal) 36dB (high brightness mode)	32dB (normal) 36dB (high)	28dB (normal) 32dB (high brightness mode)
Dimensions (w x d x h)	382mm x 430mm x 129mm (15in x 16.9in x 5in)	306mm x 275mm x 97mm (12in x 3.8in x 10.1in)	354mm x 319mm x 157mm (13.9in x 12.6in x 6.1in) not including lens 354mm x 411mm x 219mm (13.9in x 16.1in x 8.6in) including lens
Weight	5.7kg (12.5lb)	2.7kg (6lb)	9kg (19.8lb)
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	317W (<0.8W standby)	230W (<1W standby)	290W (<1W standby)
Device Type	LCD Technology	DLP Technology	DLP Technology
Focus	Manual Focus	Manual Focus	Manual Focus
Zoom	Digital Zoom	Digital Zoom	N/A
Focal Length	Fixed	F=2.86	F=2.4
Projection Distance	0.54m ~ 1.22m (21.3in ~ 48in)	0.54m ~ 1.22m (21.3in ~ 48in)	0.39m ~ 0.56m (15in ~ 22in)
Projection Screen Size	1.27m ~ 2.79m (50in ~ 110in)	1.27m ~ 2.79m (50in ~ 110in)	1.98m ~ 2.79m (78in ~ 110in)
Lamp Type	230W lamp	230W lamp	220W lamp
Lamp Life	4000 hrs (normal), 3000 hrs (high)	6000hrs (normal), 4000hrs (high)	6000hrs (normal), 4000hrs (high)
Keystone Correction	Vertical: max $\pm 20^\circ$	Vertical: max $\pm 15^\circ$	Vertical: max $\pm 15^\circ$
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°F)
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	50Hz ~ 85Hz	50Hz ~ 85Hz	43Hz ~ 85Hz

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### PROJECTOR SPECIFICATIONS (CONTINUED)

<b>Computer Compatibility</b>	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)
<b>Video Compatibility</b>	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)
<b>Inputs/Outputs</b>	D-sub 15 (RGB) x 1 D-sub 15 (RGB) selectable x 1 HDMI (Digital RGB) x 1 S-Video x 1 Composite Video (RCA) x 1 RCA (white/red) x 1 Networking LAN (RJ45) x 1 RS-232C (D-sub 9) x 1 Stereo mini-jack x 1	D-sub 15 (RGB) x 2 D-sub 15 (Monitor out) x 1 HDMI V.1.3 only for Video x 1 S-Video (Mini DIN 4-pin) x 1 Composite Video (RCA) x 1 USB control x1 Networking LAN (RJ45) x 1 RS-232C (D-sub 9) x 1	D-sub 15 (RGB) x 2 HDMI V1.3 x 1 S-Video x 1 Composite Video (RCA) x 1 USB control x 1 Networking LAN (RJ45) x 1 RS-232C (D-sub 9) x 1
<b>Colour</b>	Silver	Silver	Silver
<b>Security</b>	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
<b>On-screen Menu</b>	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	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
<b>Advanced Features</b>	Long Life Filter – 4000hrs Cable Management Cover Quick Lamp Access Direct power on/off Closed Caption	Filter-less 3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption	Filter-less 3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption
<b>Packed Contents List</b>	Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)	Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)	Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)

### MINIMUM COMPUTER REQUIREMENTS

<b>Operating Systems</b>	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)
<b>PC</b>	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
<b>Mac</b>	2.0 GHz Intel Core 2 Duo, 512 MB of RAM, 1024 x 768 resolution, 3.0 GB of Free Disk Space
<b>Linux</b>	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

### INSTALLATION

<b>ActivBoard 500 Pro Fixed System</b>	The installation of this product should be completed by a Promethean Certified Installer. Please visit <a href="http://www.PrometheanWorld.com/ActivCare/installationtc">www.PrometheanWorld.com/ActivCare/installationtc</a> . 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
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### UPGRADE AND ACCESSORY OPTIONS

<b>Cable Wall Box</b>	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.
<b>ActivWand 50</b>	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
<b>Dry Erase Whiteboard</b>	Optional dry erase whiteboard, can use 1 or 2 dry erase whiteboards per System
<b>Laptop Shelf</b>	Storage for 1 laptop, with a maximum size of a standard 43cm (17in) laptop

### WARRANTY AND SUPPORT<sup>†</sup>

<b>Warranty</b>	For Promethean Warranty Information 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>

### TECHNICAL DRAWING SPECIFICATIONS

