PoleVault[®] Systems

Complete audio/video solutions designed for classrooms, conference rooms, and meeting rooms



- Complete, centralized A/V switching system with stereo amplification
- Securely mounts and conceals switching and audio amplification components above the projector
- Uses CAT 5 type cable for quick and easy connections and low-cost installation
- Includes all necessary switching and mounting equipment – just add projector, sources, and screen
- > Multiple upgrade options available
- > Tamper-resistant, theft-deterrent design
- Simplifies setup; no programming required
- Network connectivity for Web-based monitoring and rapid problem resolution
- Auto projector shut-off saves power and extends lamp life





A Simpler A/V Solution

HOWARD TECHNOLOGY

www.howardcomputers.com | (888) 912-3151

Extron PoleVault® Systems are easy-to-use, network-enabled, all-inclusive packages, making them ideal for community colleges, universities, and corporate environments. PoleVault Systems use economical twisted pair cable for transmitting signals and include network connectivity for Webbased asset management, monitoring, and control.

Complete A/V Technology Integration

When it comes to developing an A/V control system for meeting rooms and classrooms, administrators and system integrators have told us they have three primary concerns: the system should be easy to use, reliable, and sized properly to meet the needs of the room.

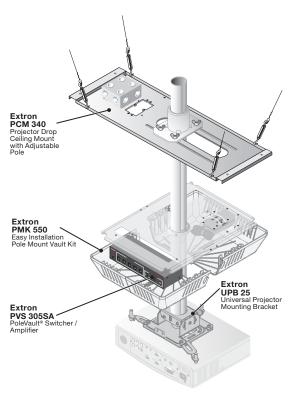
PoleVault Systems are designed to create a complete A/V technology integration solution that offers benefits for instructors, administrators, and students alike. Instructors will enjoy the simplicity of the system controller and enhanced sound quality. Students will benefit because technology that is easy to use gets used more often. Administrators will appreciate the ability to centrally monitor multiple systems using the network, as well as the expandability offered by the PoleVault switcher, which enables the addition of video and audio inputs beyond the capacity of the projector.

All of the products in the PoleVault Systems are designed and made by Extron and are optimized to work together, providing the most economical system solution. PoleVault Systems are predesigned for quick and easy installation, resulting in a significant reduction in design and installation costs.

A presenter can control the entire room's A/V system through the intuitive wall- or lectern-mounted Extron MediaLink® Controller, which eliminates the need for a handheld IR projector remote and can significantly reduce calls for help. Overall, PoleVault Systems help organizations integrate A/V technology to the benefit of presenters and support staff alike.







With PoleVault Systems, switching and audio amplification equipment are securely mounted above the projector, away from tampering hands.

www.howardcomputers.com | (888) 912-3151





Active Wall Plates PoleVault System video and audio connections are made using proven, reliable, and cost-effective CAT 5 twisted pair cable.

Complete System

PoleVault Systems, whether standard or customized, streamline the design and procurement process, saving both time and money. Each system includes nearly 20 separate products, yet the entire system is ordered using a single part number. PoleVault Systems include all the necessary audio and video switching, audio amplification, system control, source connectivity, speakers, mounting hardware, and cabling for a complete A/V solution. All that remains is to add the video projector, projection screen, and video sources.

Simplifies Installation While Saving on Space

In typical meeting room A/V systems, audio and video switching and amplification devices are mounted in a lectern or on a shelf or desktop. Too often, the equipment is unsecured, unsightly cables are visible, and valuable floor space is used. PoleVault Systems place the key products at the projector, so no equipment rack or tabletop space is required and cables are hidden away. Installation is simplified through the use of CAT 5 twisted pair cable, wall-mounted input signal transmitters, and easy-to-use projector mounting hardware.

View Ease of Installation

To see how easy it is to install, view the Extron PoleVault System Installation video online at http://www.extron.com/pvinstall



To see how easy it is to install PoleVault Systems, view the Extron PoleVault System Installation video online at www.extron.com/pvinstall.

Economical, Easy-to-Install Cables

PoleVault Systems use proven, reliable, and cost-effective CAT 5 twisted pair cable for carrying video and audio input source signals between the wallplate input and switcher. In most cases, power and high resolution A/V signals are sent over the same CAT 5 cables.

Twisted pair cable is lighter, smaller, and more flexible than coaxial cable, so it is easier to route through walls and pull through small conduit, making it ideal for use in retrofitting existing rooms and even easier for new construction. The connectors used with CAT 5 cable are also easier to attach to the cable and don't require skilled and costly technicians for installation.

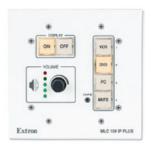
Active Wall Plate

PoleVault systems use active, balanced twisted pair transmission technology. Active, balanced signals are resistant to signal loss as well as interference, insuring optimum picture quality at the display. All these features add up to make PoleVault Systems more economical to purchase and install than those using standard coaxial cable for audio and video.

Easy To Control

The MLC 104 IP Plus MediaLink Controller, included in standard PoleVault Systems, is designed to simplify operation of the A/V system. With large, backlit buttons and a simple volume control knob, the controller is almost as easy to use as a light switch. Presenters with little or no training can learn to operate the system in a few minutes.

The standard controller employs only six buttons: two for ON/OFF control of the projector, and four source control buttons for selecting between a



The MediaLink Controller is easy to use.



www.howardcomputers.com | (888) 912-3151

computer, VCR, DVD player, or any other source connected to the system. Removable button caps make it easy to label each button to clearly indicate its function; labels can be quickly changed and don't require programming or engraving. Controlling the volume of the presentation is as simple as turning the volume knob. For added functionality, optional controller models are available; all based on the same simple user interface.

Eliminate Multiple Remotes

The MediaLink controller eliminates the need for multiple handheld IR remotes that can be lost or stolen. There are no batteries to replace and no confusing menus to memorize. When PoleVault Systems are installed in multiple rooms, presenters will confidently move from room to room when necessary, always encountering the same familiar control panel, no matter which projector is used.

Built-in Ethernet Control

The MLC 104 IP Plus MediaLink Controller features built-in IP Link® Ethernet control and is configurable using the Free Global Configurator software, which makes installation as simple as selecting choices from intuitive, drop-down menus instead of writing, compiling, and de-bugging complicated programming code. The MLC 104 IP Plus supports Extron's Free GlobalViewer, a Web-based asset management and control software application that provides a powerful, flexible way to manage, monitor, and control IP Link® products remotely and in the meeting room.



With the default Web-based graphical user interface for PoleVault Systems, you can control the system on a computer screen in the classroom or from a remote location.

Graphical User Interface Option

Technology enhanced meeting rooms provide presenters with new tools to inform and interact within the presentation environment. Many presenters prefer the flexibility of not only controlling the environment via an in-room controller mounted on a wall or lectern, but also from a control page on a computer monitor or wireless device. With PoleVault Systems, a presenter

can control the projector, DVD player, VCR, screen, lights, and more from a colorful Web page on a laptop or a computer equipped with a mouse or touchscreen monitor.

Each PoleVault System includes a ready-to-use default Graphical User Interface or GUI. In addition, there are two ways to create a customized GUI. You can select one of our free templates to create your own, or let Extron software developers do the work for you with our economical GUI Customization Service.

Enhance the In-room Audio

Attempting to run the presentation audio through the projector might be seen as a money saving option, but it results in poor quality sound and a low volume level. Projectors just don't have the speakers or amplification to produce quality sound and overcome noise in the room.

Extron Patent-Pending Flat Field Speakers

Many meeting rooms have acoustical tile ceilings that are suspended from the roof or floor structure above the room. This forms a space or "plenum" between the suspended ceiling and the building. For voice and program material, standard PoleVault Systems provide code required plenum rated wide dispersion ceiling speakers that distribute the sound across the entire room. Extron patent-pending Flat Field™ FF 120 Speakers are specially designed to work with PoleVault Systems and offer ease of integration with standard ceiling tiles. The FF 120 utilizes Extron's unique Flat Field technology for consistent sound levels across the listening area, thus reducing the number of speakers required. As an option, you could select wall-mounted program speakers which can be mounted near the projection screen. For a technical white paper on the Extron exclusive, patent-pending Flat Field™ FF 120 Speaker, go to www.extron.com/whitepapers

Together with the included PoleVault System speakers, the powerful new 50 watt audio amplifier built into the PoleVault Switcher offers all the power necessary to deliver more sound level than needed for the small to medium size room. The PoleVault System switcher with integrated audio amplifier offers a robust and even distribution of audio throughout the room.



FF 120 plenum rated speakers utilize Extron exclusive Flat Field™ Technology and wide dispersion to fill the room with high quality sound.



Flexible and Expandable Source Switching

The PoleVault 50 watt switcher/ amplifier at the heart of the system does all the work of signal routing externally to the projector. This allows expansion of the system's A/V signal switching



PVS 305SA Switcher/Amplifier

capability beyond what is available using projector switching alone. The audience will enjoy the presentation experience and presenters will enjoy presenting. The energy efficient PVS 305SA features new Auto Power Save and Power Standby modes to reduce power consumption by as much as 60% when idle.

Standard PoleVault Systems accept two, three, or four source input signals. The four input system offers two high resolution computer video signals and two configurable inputs for either computer or composite video signals.

PoleVault Systems allow for the integration of existing A/V sources, such as computers, laptops, DVD players, VCRs, document cameras, and more. In addition, PoleVault is designed to readily adapt to future changes. If you upgrade your DVD players, for example, audio and video connections are easy to make and the system will operate exactly as before the upgrade. PoleVault Systems offer the flexibility and expandability to ensure they will meet tomorrow's needs as well as the needs of today.

Extron VoiceLift® Microphone Option

The Extron VoiceLift® Microphone is an infrared wireless microphone system that integrates seamlessly into PoleVault installations. The VoiceLift series of products includes an IR receiver, a charging station, and a wireless pendant microphone with DSP technology for feedback elimination. Adding the VoiceLift microphone to a PoleVault System enables the presenter's voice to be heard clearly throughout the room.



Intelligent PA Sensing and Audio Muting Option

To ensure that important public address announcements are never missed, the PoleVault System is capable of sensing sound in the facility's PA speakers. With the addition of an optional Priority Page Sensor Kit, any sound transmitted through the PA system will be detected immediately, and the PVS 305SA Switcher will mute the program audio. Once the announcement has ended, the program audio will be restored.

Network Connectivity Helps Save Time and Money

The controller offered with standard PoleVault Systems features Extron's IP Link, a network integration technology we specifically engineered to meet the needs of professional A/V environments — from small meeting rooms to university applications.



Loss prevention with theft alerts: PoleVault System room controllers are always on and routinely poll their attached devices for status information. If any projector is physically disconnected from the network, the PoleVault System monitoring its status will know immediately. In such an event, it can send an e-mail message notifying security personnel of the possible theft. For fast action, e-mails can be sent to multiple addresses as well as cell phones and wireless PDAs.

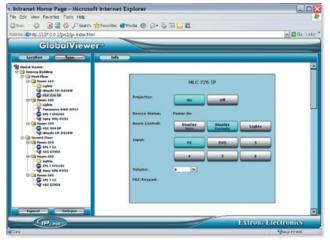
Reduced projector lamp and power costs: A projector that is left on over the weekend uses more power and lamp time than a week's worth of typical use. Projector lamps are relatively expensive, ranging from \$200 to \$400 or more. An administrator may want to turn off all projectors every day at a preset time. She might also want to schedule the controller's front panel to lock out any unauthorized use after hours. With the controller's internal clock and the free Extron software, these and many other automated tasks are easy to set up.

Accessible from anywhere: Because they are Web-based, GlobalViewer Web pages stored on the MediaLink controller can be viewed using Internet Explorer® version 6.0 or higher from any computer with access to the network. GlobalViewer can also store and display information about connected devices like serial numbers, owner identification, maintenance history, and installed firmware versions. This centralized data can be collected and used to reduce maintenance costs and guide future purchasing decisions.



www.howardcomputers.com | (888) 912-3151

Rapid problem resolution: You can troubleshoot PoleVault Systems remotely thanks to the real-time status of connected devices provided through the free GlobalViewer Web application. Information such as connection status, power state, and current source selection is displayed in a central location. For many connected devices, technicians can toggle power on or off, switch sources, control volume, and more without leaving their office. Many common problems can be resolved without a trip to where the equipment is located.



Remotely control all devices in the room with GlobalViewer's Room View screen.

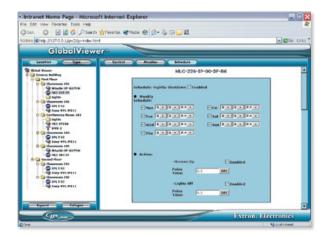
Avoid surprises through preventative maintenance: Projector lamps generally have a lifespan of around 2500 hours of usage. It can be very frustrating when a lamp reaches the end of its lifespan in the middle of a presentation. The networked PoleVault System controller keeps track of the projector's lamp usage and, thanks to the controller's e-mail capabilities, you can set it up to send an e-mail when a predetermined number of lamp hours have been reached. This will alert an administrator to purchase a new lamp before it burns out.

IP Link vs. Proprietary Projector Software

We have found that most institutional installations do not have a single brand of projector in use across their entire campus. In addition, support personnel often need visibility to all of the components in an A/V system when working through trouble calls. Extron's IP Link technology is designed to network-enable every major brand of projector and unify them under a common support platform.

Looking further, a combination of projectors, VCRs, DVD players, switchers, and other devices is the reality of most institutional installations. When we looked at the task of network enabling, monitoring, scheduling, and supporting projectors and their related equipment, we have found IP Link and GlobalViewer to be the best and most flexible approach to meet this need.

The universal architecture of IP Link enabled devices allows facilities to support a mixture of different brands, models, and versions of projectors on the same network. Older and lower cost projectors do not have built-in network



At the Schedule screen, you can view and modify scheduled events and automated e-mail alerts.

connectivity. IP link supports both network-enabled and non-network models. In addition to the projector, IP Link is designed to network-enable many other A/V system components.

Another factor to consider is the often expensive software needed to monitor, schedule, troubleshoot, and control the projectors. IP Link interface hardware works in conjunction with our free GlobalViewer Web-based resource management application. GlobalViewer software was created specifically to work with many makes and models of devices simultaneously.

Together with an IP Link-enabled MediaLink controller, the free GlobalViewer Web application provides a powerful, flexible way to monitor, schedule, and control all of the equipment in the A/V system.

Extron Satisfaction Guarantee

To underscore our commitment to quality, performance, and value, we offer our Satisfaction Guarantee. This means we will work diligently to resolve any issue you have with your purchase until you are completely satisfied. Extron employees are prepared to do whatever it takes to make certain that the entire process of doing business with us is a positive and professionally rewarding experience for you.

Extron PoleVault System Design and Installation Support Program

Extron has assembled a dedicated team of system specialists with the technical expertise necessary to assist during every step of a PoleVault System project. From initial design and bill of material creation, they will assist with providing reseller referrals, including information on state contracts that may be available in your area. The Extron PoleVault Team has access to documentation to assist your project planners or architects with data submittals that are required for certain state construction agencies. Our Integration Support Specialists provide support during and after installation, including a final call after installation, to ensure customer satisfaction and system optimization.

PoleVault Systems



EACH STANDARD SYSTEM INCLUDES THE FOLLOWING CORE COMPONENTS:

- One PVS 305SA Five Input PoleVault Switcher with Integrated Audio Amplifier not available separately
- One MLC 104 IP Plus MediaLink Controller with IP Link White
- One PCM 340 Projector Drop Ceiling Mount with Adjustable Pole
- One PMK 550 Pole Mount Kit
- One UPB 25 Universal Projector Bracket White
- · One pair of FF 120 plenum-rated Flat Field Speakers
- One length of SPK 18 Precut Speaker Cable Plenum, 35' (10.6 m)

- One MLC IR/RS-232 Projector Communication Cable Plenum, 50' (15.2 m)
- One MLC PW/RS-232/VC Power, Switcher Communications Cable -Plenum, 50' (15.2 m)
- One AV RCA Male to Male RCA Cable 3' (1 m)
- One MVGA M-M/3 Male to Male VGA Cable 3' (1 m)
- . Two, three, or four exclusive PoleVault AV input wallplates see below
- One or two lengths of CAT 5 twisted pair cable per wallplate Plenum, 50' (15.2 m)

The only difference between the systems is the quantity and type of A/V input wallplates and video cables included - see Unique Features for each system.

PVS 200

Two Input PoleVault System

UNIQUE FEATURES

- Includes one PVT RGB D PoleVault VGA Computer Video and Stereo Audio Input - Decora® Wallplate
- Includes one PVT CV D PoleVault Composite Video and Stereo Audio Input for a VCR or DVD Player - Decora Wallplate

 Model
 Version Description
 Part #

 PVS 200
 Two Input PoleVault System
 42-108-03



The PVS 200 two-input PoleVault System has one VGA computer video input and one DVD/VCR input

PVS 300

Three Input PoleVault System

UNIQUE FEATURES

- Includes two PVT RGB D PoleVault VGA Computer Video and Stereo Audio Inputs - Decora Wallplate
- Includes one PVT CV D PoleVault Composite Video and Stereo Audio Input - Decora Wallplate
- Additional VGA input wall plate provides increased flexibility for adding an additional VGA source, such as a laptop or document camera

 Model
 Version Description
 Part #

 PVS 300
 Three Input PoleVault System
 42-109-03



The PVS 300 PoleVault System adds one VGA computer video input - three inputs total

PVS 400

Four Input PoleVault System

UNIQUE FEATURES

- Includes two PVT RGB D PoleVault VGA Computer Video and Stereo Audio Inputs - Decora Wallplate
- Includes two PVT CV D PoleVault Composite Video and Stereo Audio Inputs - Decora Wallplate
- Additional video input wall plate provides increased flexibility for adding an additional composite video source, such as a VCR

 Model
 Version Description
 Part #

 PVS 400
 Four Input PoleVault System
 42-110-03



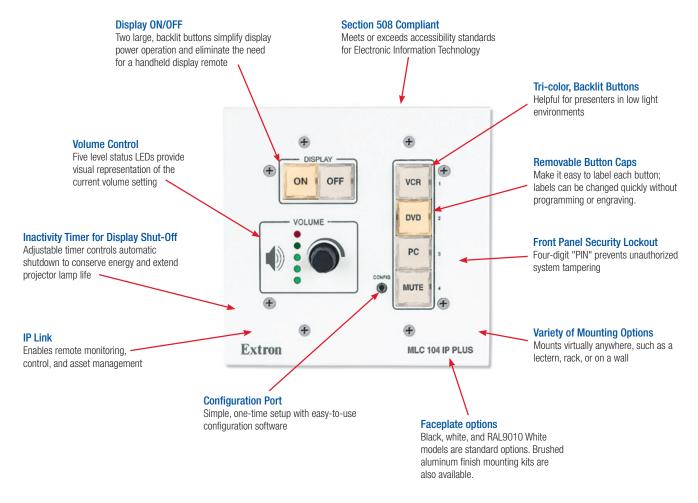
The PVS 400 PoleVault System adds one VGA computer video and one DVD/VCR input - four inputs total

System Controller



MLC 104 IP PLUS MEDIALINK® CONTROLLER

The Extron MLC 104 IP Plus MediaLink Controller with built-in IP Link® Ethernet Control included in standard PoleVault Systems is an easy-to-use control panel. It is designed to simplify operation of the classroom A/V system and enables Web-based remote diagnostics, asset management, and support. When PoleVault Systems are installed in multiple meeting rooms, the MLC 104 IP Plus standardizes the control interface, making A/V systems simple to use for anyone.



FEATURES

- Bidirectional RS-232 port for universal display control
- . Three digital I/O ports configurable as a digital input or digital output for sensors, switches, LEDs, and relays
- Dedicated IR Port for control of IR-controllable display devices and source equipment, such as VCRs and DVD players
- . IR learning capability for capturing IR remote codes from a device's handheld remote control
- · Adjustable timer controls automatic shutdown to preserve energy and extend projector lamp life
- Front panel security lockout prevents unauthorized tampering
- · Tri-color, backlit, easy-to-label buttons
- · Volume control knob with volume indication
- IP Link® Ethernet monitoring and control
- Integral high performance Web server with 7.25 MB flash memory for storing device drivers, GlobalViewer, and custom user Web pages

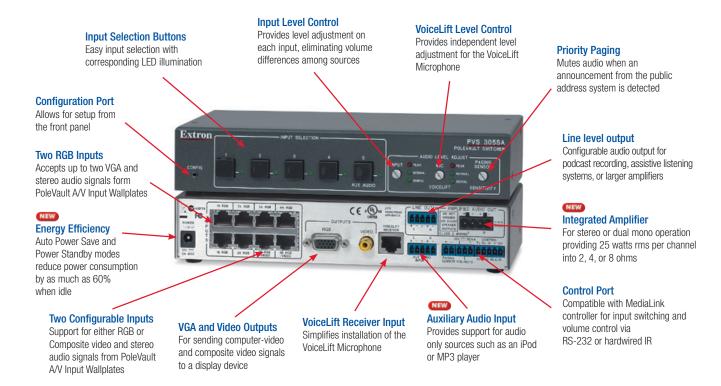


POLEVAULT® SWITCHER/AMPLIFIER

The heart of the MediaLink PoleVault System is the PVS 305SA PoleVault Switcher/Amplifier. With four video inputs, a switched audio input, and an integrated 50 watt rms stereo audio amplifier, the PoleVault Switcher meets the needs of most single projector A/V environments.

The PVS 305SA switcher offers two high resolution RGB computer-video signals with stereo audio and two configurable inputs that support either RGB or composite video with stereo audio. Switching and volume are controlled via IR or RS-232 using the MediaLink Controller included with PoleVault Systems.

The PVS 305SA features an integrated 50 watt rms stereo audio amplifier capable of driving up to eight Extron speakers and filling the room with full, rich sound. The integrated audio amplifier features software-based bass, treble, and loudness control for set-and-forget operation. The VoiceLift® Receiver input simplifies VoiceLift Microphone installation and an auxiliary line-level input supports audio only sources such as an iPod or MP3 player.



FEATURES

- · Available exclusively as part of a PoleVault® System
- Receives high resolution VGA computer video, composite video, and stereo audio signals from PoleVault A/V input wallplates
- MEW Integrated 50 watt rms audio amplifier for stereo or dual mono audio
- Receives audio/video signals and provides power to A/V input wallplates over CAT 5 UTP cable
- VoiceLift Receiver input simplifies installation of the VoiceLift Microphone
- Name of the contract of the
- Independent input sensitivity adjustments are provided for program audio and VoiceLift Microphone
- Configurable audio line output for podcast recording, assistive listening systems, or adding an additional amplifier
- Paging sensor input mutes program audio when a public address system announcement is detected by the optional Priority Page Sensor Kit (70-619-01)
- · Software-based tone and dynamics for audio adjustments to meet the needs of the acoustic environment
- Must be a superior of the standard of the standar
- External power supply included



INCLUDED PRODUCTS

Each PoleVault System product is designed and manufactured by Extron, ensuring that they will work together and function properly as a system. Each of the standard PoleVault Systems includes nearly 20 separate components, including a twisted pair switcher/receiver, two to four video inputs, a MediaLink Controller, projector mounting hardware, speakers, and cables. The following two pages provide an overview of the standard input wallplates, controller, speakers, and projector mounting hardware included in each system. See page 12 for optional products used to customize PoleVault Systems.

A/V INPUT WALLPLATES



PVT CV D

PoleVault Composite Video and Stereo Audio Input - Decora® Wallplate

- Transmits composite video and stereo audio signals to a PVS 305SA switcher over a single CAT 5 UTP cable
- Composite video and stereo audio input on female RCA connectors
- IR pass-through provides control connections for IR controllable devices
- · Mounts in an included Decora-style wallplate



PVT RGB D

PoleVault VGA Computer Video and Stereo Audio Input - Decora® Wallplate

- Transmits VGA computer video and stereo audio signals to a PVS 305SA switcher over two CAT 5 UTP cables
- VGA video input on a female 15-pin HD connector and audio input on a 3.5 mm stereo mini jack
- · Mounts in an included Decora-style wallplate

SPEAKERS



FF 120

Extron exclusive patent pending Flat Field™ speaker

- Plenum-rated ceiling speakers designed for classrooms with a drop ceiling
- 1' x 2' (30.5 cm x 61 cm), 4.7 lb (2.1 kg) drop-in ceiling tile enclosure for suspended ceilings
- Extron patent pending Flat Field[™] Technology for consistent sound levels across the listening area
- Full-range driver with a horn-loaded design provides extended low frequency response
- Wide 170° dispersion
- · Patent Pending; designed and manufactured by Extron

CONTROLLER



MLC 104 IP Plus

MediaLink Controller with IP Link®

- Two bidirectional RS-232 ports for display and switcher control
- (IPLINK, Network monitoring and control
- · Front panel security lockout
- Configurable tricolor backlit buttons
- · Volume control with indicators
- · Support for optional IRCM control modules

HOWARD TECHNOLOGY

www.howardcomputers.com | (888) 912-3151

MOUNTING HARDWARE





PCM 340

Projector Drop Ceiling Mount with Adjustable Pole

- Patent-pending projector drop ceiling mount with adjustable pole for use with suspended ceilings using 2'x2' or 2'x4' tiles
- Provides time- and cost-effective integration of projectors in small boardrooms and classrooms
- Includes single-space and double-space junction box openings
- 25" (63.5 cm) adjustable pole with range from 1.5" to 23" in 0.5" increments
- Dimensions: 1.2" H x 26.4" W x 8.0" D (2.9 cm H x 67.0 cm W x 20.3 cm D)
- · Available in white



IIPR 25

Universal Projector Bracket

- Universal projector mount compatible with nearly every projector up to 25 pounds
- Independent adjustments of horizontal tilt or roll, vertical angle or pitch, and rotation or yaw
- Precise positioning adjustments are maintained even if projector is removed for service
- · Built-in security tabs to prevent theft
- Projector mounting hardware included for attaching projectors to the UPB 25
- Optional security hardware, part # 70-555-01
- · Available in black or white



Selecting A Projector For PoleVault Systems

PoleVault Systems work with virtually any projector. However, in order to enable the full benefits of system control and network monitoring, it is important to select a projector that includes the following features:

RS-232 Control Port with Bi-Directional Communication - Many projectors provide

only IR control or unidirectional RS-232. Bidirectional RS-232 allows a projector to both receive commands and provide status feedback to the control system. This capability is important for transmitting information about the projector to the GlobalViewer Web application via the controller's IP Link technology.

Communication During Standby Mode -

Some projectors do not have the ability to communicate with a control system while in standby mode. In order to fully utilize the security features in IP Link technology, such as the detection of a projector that has been disconnected, it is important to select a projector that can communicate during standby mode.

Rich Set of Monitoring Commands - The more data available from the projector via RS-232, the better. Examples of useful data include: lamp hours, temperature, filter status, current input selected, projector on/off, video mute status, etc.

Brightness - A projector of at least 2000 ANSI lumens is recommended in order to provide good visibility in brightly lit rooms.

For more information, contact the Extron Education Support Team

SWITCHER / AMPLIFIER





PoleVault Pole Mount Kit

- Securely mounts PoleVault equipment above the projector, which prevents unauthorized access and reduces tampering or theft.
- Provides adequate space for PoleVault equipment with designated locations for the switcher and power supply
- Low profile only requires 3" (7.7 cm) of height between projector and ceiling
- Lightweight design for reduced ceiling structure support requirements
- Built-in cable management with several tie down points for proper strain relief and dressing of excess cable



PVS 305S/

Five Input Twisted Pair PoleVault Switcher with Integrated 50 Watt Stereo Audio Amplifier

- Available exclusively as part of a PoleVault® System
- Receives high resolution VGA computer-video, composite video, and stereo audio signals from PoleVault A/V input wall plates
- Integrated 50 watt rms audio amplifier for stereo or dual mono audio
- Receives audio/video signals and provides power to A/V input wall plates over CAT 5 UTP cable
- · VoiceLift Receiver input for VoiceLift Microphone
- Switched auxillary audio input for audio only sources

OPTIONAL PRODUCTS

PoleVault Systems can be customized to meet the specific requirements of the room. A wide range of options is available, including optional controller models, additional A/V inputs, speakers, mounting hardware, and more. For example, users can specify an additional pair of speakers, add microphone support, select optional mounting hardware, and specify black components, rather than the standard white color. The following two pages provide details on just a few of the options available. Extron System Design and Support Specialists are standing by to assist with any PoleVault System design and customization.





PVT RGB D Plus

PoleVault VGA Computer Video and Stereo Audio Input with Local Monitor Output - Decora® Wallplate

- Transmits VGA computer video and stereo audio signals to a PVS 305SA switcher over two CAT 5 UTP cables
- Built-in distribution amplifier provides local monitor output
- IR pass-through provides control connections for IR controllable devices
- 3.5mm audio pass-through connector allows PoleVault audio to be available for podcasting or assistive listening systems.
- VGA video input on a female 15-pin HD connector and audio input on a 3.5 mm stereo mini jack
- · Mounts in a Decora-style wallplate



PVT RGR CV

PoleVault VGA Computer Video, Composite Video, and Stereo Audio Input

- Transmits VGA, composite video, and stereo audio signals to a PVS 305SA switcher over three CAT 5 UTP cables
- Two input model accepts composite video with audio on female RCA jacks and VGA on a female 15-pin HD connector with audio on a 3.5 mm stereo mini jack
- · Rack-mountable, 1U, quarter rack width metal enclosure



PVT SW RGB

Dual PoleVault VGA Computer Video and Stereo **Audio Input with Integrated Switcher**

- Increases the quantity of high resolution video inputs allowed in a PoleVault System
- · Transmits VGA computer video and stereo audio signals to a PVS 305SA switcher over two CAT 5 UTP cables
- Two VGA video inputs on female 15-pin HD connectors and two audio inputs on 3.5 mm stereo mini jacks

VOICELIFT MICROPHONE -



VoiceLift Microphone Infrared Wireless Microphone

Lightweight pendant microphone

- Advanced DSP maximizes sound quality
- Supports up to two microphones
- Volume/mute control
- Instant Alert email messaging capability
- Auxiliary input for additional audio source

OPTIONAL CONTROLLERS



MLC 104 IP Plus DV+

MediaLink Controller with IP Link and Integrated **DVD and VCR IR Control**

- Adds dual-function DVD and VCR IR control
- Two bidirectional RS-232 ports for display and switcher control
- IPLINK. Network monitoring and control
- · Front panel security lockout
- · Configurable tricolor backlit buttons
- · Volume control with indicators

IP INTERCOM®



Four-Button Stand-Alone IP Intercom® Station

- Provides two-way, half-duplex voice communications over an IP network
- Stand-alone IP addressable intercom station
- Four backlit, configurable Push To Talk buttons for communicating with four different locations
- Mounts in a two-gang wall box
- · Integrated speaker and microphone
- Line level audio output and contact relay port

OPTIONAL SPEAKERS









PAGE SENSOR KIT-

SI 3C LP

Full-Range Ceiling Speakers with 4" Low Profile Back Can

- Plenum-rated speakers designed for rooms with a drop ceiling
- 4" (10.2 cm) deep low profile metal back can for plenum environments
- 3" (7.6 cm) full-range driver with a tuned port
- · Locking arms for quick ceiling installation
- 170° conical dispersion
- Includes C-ring & V-rail kit

SI3

Compact Full-Range Surface Mount Speakers

- Surface mount speakers for rooms without a drop ceiling for wall mounting on each side of the screen.
- 3" (7.6 cm) full-range driver with a tuned bass reflex port
- Exclusive V-Lock® mounting system included
- Grille and enclosure can be painted to match environment

Priority Page Sensor Kit

Priority Page Sensor w/Cable & Connectors

- Detects audio signal in a public address system speaker to mute classroom audio
- Designed for use with PVS 305SA PoleVault Switcher
- Compatible with 25/70 volt and 4/8 ohm public address systems
- Priority Page Sensor, 35' (10.6 m) sensor cable, and metal junction box included

OPTIONAL MOUNTING HARDWARE



WMK 100

WallVault™ Wall Mount Kit for PoleVault® Systems

- Securely mounts PoleVault System equipment
 to a wall
- · Protects components from tampering and theft
- Available exclusively as the wall mounting option for PoleVault Systems
- Designed for installations that include a flat panel display or wall-mounted, short throw projector
- Large base plate offers a wide variety of mounting and cable management options



ACMP 100

Angled Ceiling Mounting Plate

- Alternative to the PCM 240
- · Pivoting angled ceiling mounting plate
- Enables projector to hang level from angled ceilings
- Compatible with Extron PMP Series Projector Mount Poles
- Available in black



FCMP 44

Flat Ceiling Mounting Plate

- Alternative to the PCM 240
- 4-inch square, low profile mounting plate
- Provides a ceiling mounting point for any Extron PMP Projector Mount Pole
- · Enables close ceiling placement of projector
- Available in black



GRAPHICAL USER INTERFACE



Extron graphical user interfaces, or GUIs, are functional, intuitive, and easy to use. The integrated IP Link™ Web server in the MLC 104 IP Plus controller makes adding a high-quality, customized user interface easy and enables control from any networked PC or laptop using either a mouse or touch-monitor in the room, or from a remote location. Your AV/IT facility support team will still be able to provide remote interactive support for all users from within the Free GlobalViewer Web application. Extron offers two ways to create a custom GUI for your installation:

Default Graphical User Interface for PoleVault Projects

For all PoleVault Systems, Global Configurator automatically creates a custom GUI based on the configured controller buttons and installed drivers.

In addition, Extron offers two ways to create a custom GUI for your installation:

Download FREE Templates and Do It Yourself

Our <u>FREE</u> user interface software development kit, designed for end users who are comfortable modifying HTML and JavaScript, includes modifiable templates that can be downloaded from the Extron Web site at www.extron.com/gui

GUI Customization Service

It is easy to order a custom GUI for your organization. Simply contact an Extron Customer Support Representative and describe your requirements. Our developers will create a custom GUI according to your specifications for a small fee.







POLEVAULT® SYSTEMS ARE EASY TO CUSTOMIZE

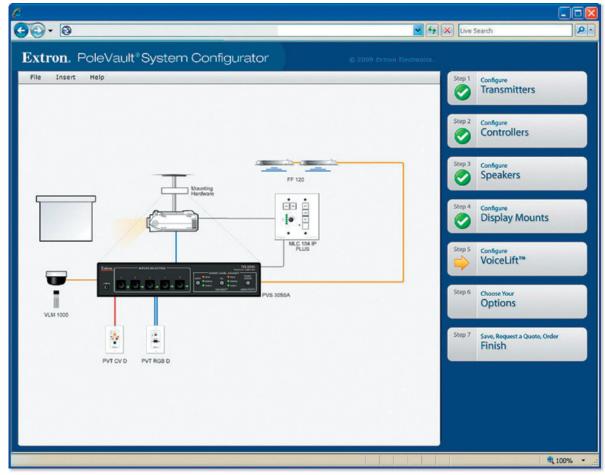
There are three standard PoleVault System packages that streamline the design and procurement process. These two-, three-, and four-input packages include all the necessary audio and video switching, audio amplification, system control, source connectivity, speakers, mounting hardware, and cabling for a complete classroom A/V solution. All that remains is to add the video projector, projection screen, and sources.

Extron PoleVault Systems take their name from the unique PMK 550 Projector Mounting Kit that securely mounts and conceals the system audio and video switching and audio amplification components mounted above the projector. This provides tamper-resistant theft deterrence for the A/V system.

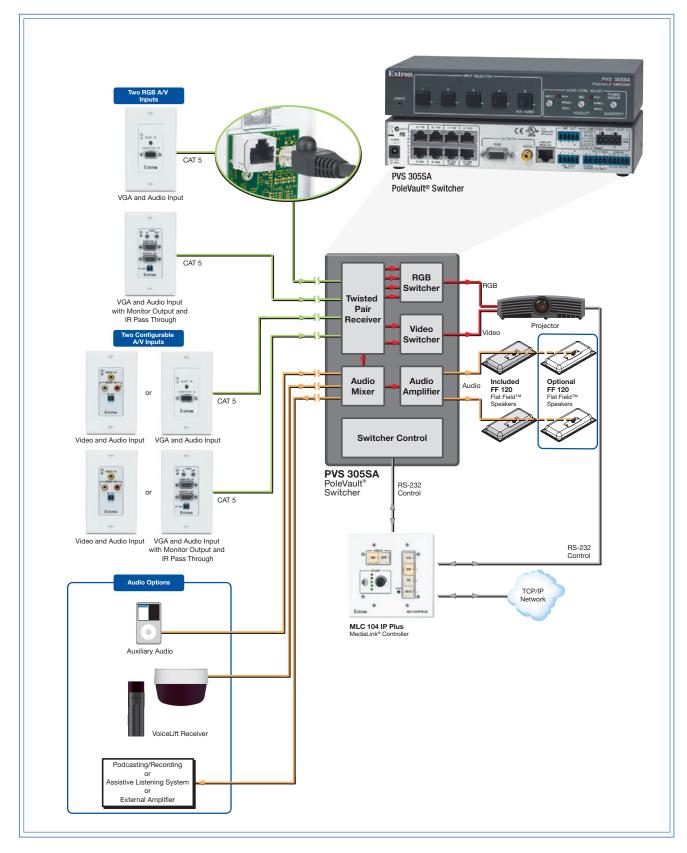
System Customization

All PoleVault Systems can be customized to meet specific classroom requirements. Each system must always include the PVS 305SA PoleVault Switcher, which is available only in a PoleVault System - a PMK 550 Projector Mounting Kit, speakers, and two to four A/V input wallplates.

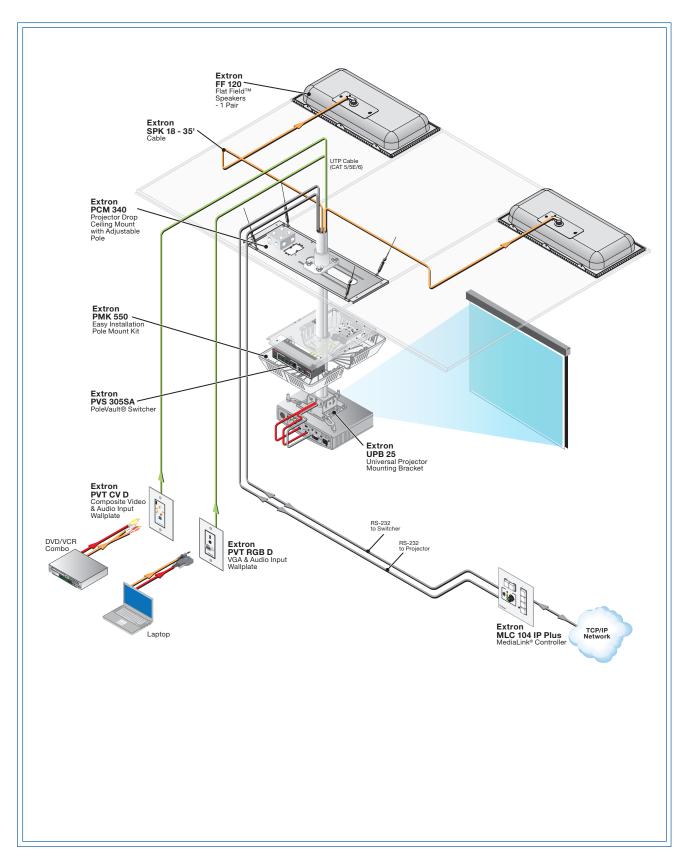
The PoleVault System Configurator at **www.extron.com/pvsc** is an online, drag-and-drop configuration utility that allows users to design PoleVault Systems using the Extron Web site. The dynamic, graphical user interface makes system customization easy. Only the available choices are shown as you build your system. Helpful wizards ensure that only valid systems are built and vital accessories are included. In each standard system, certain components can be changed. For example, users can specify an additional pair of speakers, add wall plates, add or remove optional mounting hardware, and select component colors. A wide range of options are available. The PoleVault System Configurator can also be used to print or save an equipment list and submit a request for quote to Extron Sales. Extron System Design and Support Specialists are standing by to assist with any PoleVault System design and customization.



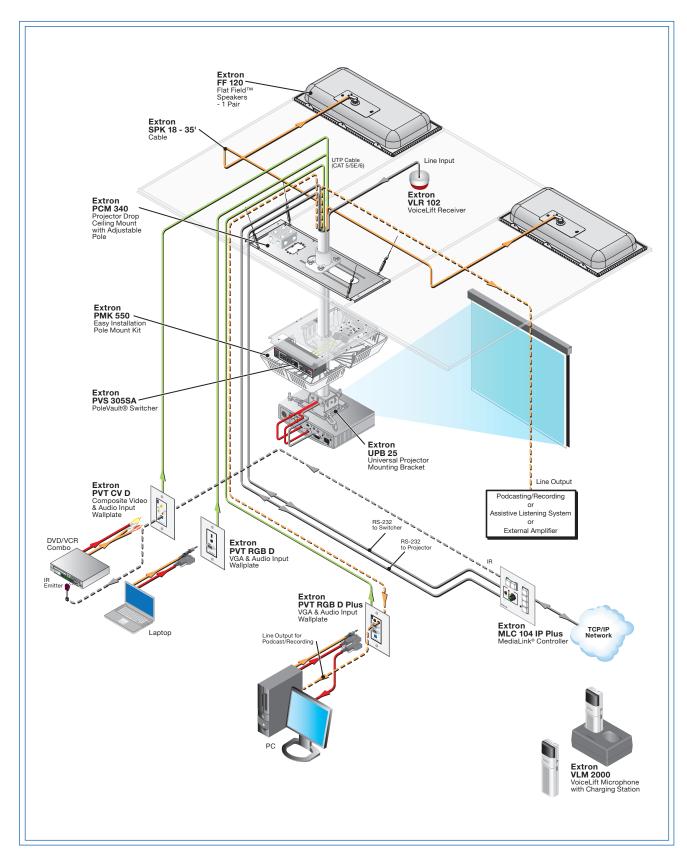
PoleVault System Configurator



PVS 200 - Two Input PoleVault® System



Three Input PoleVault® System with Options



Four Input PoleVault® System with Options

