Extron is Committed to Education

Every day, thousands of students and instructors around the world are having their educational experiences enhanced by Extron audiovisual signal processing, distribution, and control products. Our advanced technologies create better looking images, higher quality sound, and systems that are easier to control and work more reliably. We are continuing to develop solutions that meet the unique performance and value requirements of the education market.

S3 Education Partnership Program
Extron’s commitment to the education market extends beyond our industry leading technologies and products. We also strive to provide comprehensive support, training, and other benefits which has led to this new partnership program created exclusively for our education customers.

Key Program Benefits:
- 24/7 Technical Support
- Technical Design Assistance
- Cooperative and State Contract Pricing
- Training & Certification
- Extron Insider Website Access
- Extron 5 Year Product Warranty
- Product Demonstrations & Evaluation Equipment
- Classroom AV Grant Programs
- Authorized Reseller Recommendations
Extron PoleVault® Digital Classroom AV Systems are easy-to-use AV switching and control systems that use twisted pair signal transmission to seamlessly integrate the most common source devices found in modern classrooms. These standard systems include all the necessary audio and video switching, audio amplification, system control, source connectivity, speakers, mounting hardware, and cabling for a complete classroom AV solution. All that remains is to add the display device and sources.

Key Features:
- Complete, centralized HDMI/VGA switching and control systems with stereo audio amplification
- Securely mount and conceal switching and audio components
- Two local HDMI inputs and two twisted pair inputs support up to six 4K video sources
- Patented Flat Field® speakers deliver consistent sound levels across the listening area
- Powerful 50 watt rms audio amplifier
- Easy-to-use MediaLink controller included
- Network connectivity for remote setup, monitoring, and support

Mounting Options for a variety of classroom environments

- PlenumVault Systems securely mount and conceal system components in the plenum area above a suspended ceiling
- PoleVault Systems include a drop ceiling projector and pole mount kit to conceal system components
- WallVault Short-Throw Systems include a projector mount and equipment enclosure to secure the projector components to a wall
- WallVault Wall Mount Systems include a wall mount kit to securely mount and conceal AV components to a wall
The Extron VoiceLift® Pro Microphone employs state of the art wireless technology for classroom voice amplification. VoiceLift Pro utilizes digital transmission and pairing in a dedicated spectrum to provide superior performance over traditional systems. Benefits include higher sound quality, increased reliability, and greater transmission distance, with reduced interference. VoiceLift Pro integrates seamlessly with any PlenumVault, WallVault, or PoleVault installation, providing a complete classroom AV and voice amplification solution. Studies have shown that evenly distributing the teacher’s voice throughout the room results in significant gains in student achievement.

![Image]

— Trost Amplification Study, Canby School District, Canby, Oregon, 2004

**Advanced Wireless Technology**
The VoiceLift Pro Microphone is based on an industry standard radio frequency technology operating in a spectrum reserved exclusively for voice communications. This technology is not susceptible to environmental factors, such as windows, sunlight, and florescent lighting, that create problems for infrared systems. It also does not suffer from the licensing restrictions and proximity issues of traditional RF microphones.

**Sophisticated Signal Processing**
VoiceLift Pro uses advanced digital signal processing to optimize voice intelligibility and audio quality as well as eliminate feedback.

**Plug-and-play Integration**
The VoiceLift Pro Receiver includes a convenient RJ-45 connection for quick and easy integration of audio, power, and control with a PoleVault switcher. In addition, the compact receiver is designed to be mounted in close proximity to the switcher, within a secure Extron PVM, USFM, or WMK enclosure.

**Instant Alert and Function Relays**
Instant Alert provides instructors a quick and discreet way to signal for assistance in the event of an emergency. Holding both volume buttons on the pendant microphone closes a relay that can instruct an Ethernet-enabled MediaLink® controller to notify school officials and authorities via e-mail or text message. An independent function button on the pendant provides access to the receiver’s second relay. This allows triggering additional capabilities such as lecture capture, podcast recording, and more.
Audio Products
Speakers, Amplifiers, DSP

Extron manufactures audio products for almost any educational application, from classrooms and lecture halls to distance learning and conferencing. With such a wide array of design, performance, and form factor options, we are sure to have a solution that meets your audio requirements.

Speakers
Extron speakers are designed to provide exceptional sound quality and coverage for speech reinforcement and program audio applications. Pendant, soundbar, ceiling, and surface mount options are available to complement any environment. Ceiling speakers equipped with Extron patented Flat Field® Technology provide extraordinarily wide dispersion for consistent sound levels across the listening area, reducing the number of speakers required in rooms with low ceilings.

Amplifiers
Extron Power Amplifiers are ideal for space constrained locations and may be mounted in a small rack, within a credenza, within a lectern, above a drop ceiling, or behind a display. Our XPA Ultra Series of power amplifiers offering 2, 4, or 8 channels and up to 100 watts per channel are designed to be ultra efficient, ultra cool, and ultra reliable, putting more performance in less space.

Digital Signal Processing
Extron offers audio DSP products for auditoriums, conferencing, and a variety of other sound reinforcement applications. Models are available with Acoustic Echo Cancellation, VoIP, USB Audio, and Dante. All feature Extron’s exclusive ProDSP, for powerful audio processing and studio grade sonic quality. Processing algorithms including level, adaptive gain, automixing, dynamics, filters, delay, ducking, loudness, and feedback suppression, offer powerful audio solutions.
Certain locations on campus have more advanced audio, video, and control requirements than the typical classroom. These include lecture halls, multipurpose rooms, performance spaces, libraries and more. As outlined below, Extron offers a wide array of solutions to address even the most complex learning environment.

**Scaling and Matrix Switching**
Extron’s advanced scaling technology accepts signals from a wide range of sources and processes them for optimal image quality on any display. Our Vector 4K scaling engine employs advanced algorithms for upscaling and downscaling, ensuring that critical image detail is maintained. Matrix switchers provide the ability to route any input to any output or to multiple outputs at any time. They accept AV signals from a range of input sources including computers, laptops, tablets, cameras, and Blu-ray players, and route the output to different destinations, such as projectors, flat panel displays, and video conference codecs.

**AV over IP**
Extron created NAV™ as the only no-compromise Pro AV over IP solution for distribution and switching of ultra-low latency, high quality video and audio signals over an Ethernet network at low bitrates. Utilizing Extron’s patented PURE3® codec, it delivers groundbreaking performance with visually lossless video over IP at resolutions up to 4K @ 60 Hz with 4:4:4 chroma sampling. The NAV Series is the only solution that offers both 1 Gbps and 10 Gbps encoders and decoders while providing full interoperability across both systems.

**Videowalls**
Extron offers multiple videowall solutions including the industry-leading Quantum® Series of processors. They provide scalability for applications ranging from small retail displays up to large command and control facilities. Quantum Ultra is a 4K videowall processor that features Vector 4K scaling, high-performance windowing, future-ready HyperLane® video bus, and modular architecture to accommodate any source and display requirements.
Advanced Control
Touchpanels, Room Scheduling, Unified Communications

**TouchLink Pro Control Systems**
For more sophisticated applications, a touchpanel may be the best choice for AV control. The Extron TouchLink Pro family of customizable touchpanels range in size from 3.5” up to 17”, and are available in a variety of mounting options including tabletop, wall mount, and flip-up Cable Cubby enclosures. Several models feature vibrant, capacitive touchscreens with edge-to-edge glass, and a multisource, high-resolution video preview.

**Room Scheduling**
We have simplified the room booking experience with Extron Room Scheduling. This stand-alone system consists of elegantly-designed TouchLink Scheduling Panels that connect directly to Microsoft Exchange, Office 365, Google Calendar, and CollegeNET 25Live. Users can make on-demand reservations from the touchpanel, a computer, or their mobile device. Free Room Agent software makes setup a breeze, allowing you to customize the touchpanel interface with the meeting options you need. Multiple touchpanel mounting options are available including on-wall and in-wall, as well as secure mounting to almost any flat surface, including glass or granite.

**Unified Communications**
Extron has developed technology to integrate with the leading unified communication solution providers, creating a one-touch user experience for conferencing, collaboration, and control. Through our partnerships, we can extend Extron control capabilities to spaces that use Zoom, Cisco, Logitech, and many other popular providers. We offer complete system integration for convenient, centralized control of conferencing systems, audio, video, lighting, window shades, and much more.
Instruction is shifting away from lectures and towards collaborative or cooperative learning. These changes can have a dramatic impact on everything from technology used to the actual design of the classroom. Flipped classrooms as well as BYOD and 1:1 deployments require methods for students to work together with a wide array of computing and display devices. Extron offers a number of AV integration products to facilitate collaboration in a variety of different classroom environments.

**TeamWork® Connect** expands Extron’s popular TeamWork family with a powerful, cost-effective collaboration solution for education applications. With the addition of meeting space collaboration systems such as the HC 404, switching, scaling, signal extension, and control functions are combined into one solution. TeamWork systems are simple to deploy and intuitive to use. Just connect a laptop or tablet to a TeamWork Show Me® cable to start the system, and then press the Share button to display content on the presentation display. When done, simply disconnect the devices and the system automatically powers down.

**Extron ShareLink™** is a collaboration gateway for sharing content from computers, smartphones, and tablets. It can be used to create a stand-alone wired or wireless collaboration and presentation system or to add wireless presentation capabilities to an existing classroom AV system. ShareLink technology supports simultaneous sharing of images, documents, or applications from up to four devices. It is compatible with Windows® and OS X® computers as well as Apple® and Android™ smartphones and tablets. ShareLink also includes a moderator mode allowing the instructor to ensure only approved content is displayed.
Extron StudioStation® is a quick, simple, and convenient solution for one-touch recording of high quality video and audio presentations. To turn the system on, insert a USB stick and press the record button to begin recording. StudioStation solutions are ideal for flipped classroom recordings, student assessments, rehearsal spaces, moot courts, or any other application where making a recording by pressing only one button is desired.

The SMP 300 Series of products are high performance H.264 streaming media processors for capturing and distributing AV sources and presentations as live streaming and recorded media. Accepting HDMI, component, composite, and optional 3G-SDI signals, these processors are able to record and stream simultaneously. They can stream at two different resolutions and bit rates concurrently using a range of transport protocols and session management options.

The SMD 101 and SMD 202 are compact, high performance H.264 decoders that create complete end-to-end streaming systems when used with Extron SMP and SME encoders. Both units provide advanced signal processing, scaling, and aspect ratio management that supply high quality signals to AV displays. In addition to live stream decoding, the SMD 202 also offers the flexibility to playback media files from internal memory, a removable SD memory card, or a locally connected USB storage device.

Extron streaming products can be used for a variety of education AV applications including:

- Lecture capture for flipped classrooms
- Campus-wide distribution of student news, CATV, or DVD content
- Overflow presentation of athletic, theater, graduation, and other events
- Digital signage
The Extron GlobalViewer® family of software products allows support teams to remotely control and manage AV resources over the network, dramatically increasing their efficiency and effectiveness.

**GlobalViewer Enterprise**
Extron GlobalViewer Enterprise AV resource management software allows administrators and support personnel to get the most from their classroom AV systems. It provides single-school up to district-wide access to AV components over the network for remote support, energy management, and planning.

**Remote Monitoring and Support** – Real-time monitoring of all classroom AV resources on the network ensures they are up and running, and being used to their potential. For support issues, technicians can remotely access the AV equipment in a particular room to assist users with system operation. Disconnect and Event Alert email messages alert the proper officials of a potential theft or other AV equipment problem in the classroom.

**Energy Efficiency and Cost Savings** – Automatically powering down AV components and scheduling system availability lowers operating costs and extends the life of equipment. Preventing projectors from being left on overnight or over the weekend allows lamps to last longer, and saves on energy bills.

**Planning** – Comprehensive reporting features provide important information for proactive maintenance and asset analysis. Lamp hour reports track usage and assist in lamp replacement scheduling. Usage reports for AV components serve as a valuable reference for resource allocation, budgeting, and professional development.

**iGVE**
Extron also offers a mobile AV resource management App, iGVE. This powerful, convenient App is used in conjunction with Extron GlobalViewer Enterprise, and allows users to effectively manage and control large-scale AV installations from Apple iPad, iPhone and iPod touch devices.
GlobalViewer Campus Communication Suite
Network Management of Bells, PA, and Intercom Systems

GlobalViewer® Campus Communication Suite is a complete solution for unifying all campus audio systems under an easy-to-use interface. The suite leverages the power of your existing network to provide bells, public address announcements and intercom communications throughout campus.

**Flexible Bell Scheduling**
Bell schedules may be created and maintained either locally or at the district level. You can quickly and easily set recurring bell schedules for each school day. For special events, such as a rally or holiday closure, the bell schedule can be modified or disabled.

**Convenient PA Announcements**
Support is provided for both live public address messages and pre-recorded announcements. Zone options allow announcements to be routed to all locations on campus, a particular area, or a specific room.

**Integrated Intercom System**
The intercom feature provides two-way voice communication over the network. Flexible setup options allow users to be connected with the office or help desk.

**Simplified Control**
Managing campus audio systems is easy. GlobalViewer Campus Communication suite software connects to the server through a standard web browser from any computer on the network. Using the intuitive graphical user interface, office personnel can administer the bell schedule, make announcements, or have two-way communication with classrooms.

**Instant Alert**
Request and Provide Assistance During Emergencies

The Instant Alert feature of the VoiceLift Pro Microphone allows educators to discreetly signal for assistance in the event of an emergency. Now, in addition to sending an email or text to officials, Instant Alert can also provide access to an IP video camera installed in the classroom.

By clicking the link provided by email or in GlobalViewer Enterprise, administrators can see and hear what is happening in the room. This allows them to deploy the most appropriate resources such as summoning police or medical personnel, or starting lockdown procedures.

If GlobalViewer Campus Communication Suite has been deployed, the help desk operator may either make an announcement to the room that assistance is on the way, or initiate an intercom session for two-way communication with the instructor.
**Technical Support**

Extron is best known for supporting our customers anytime, anywhere with our Technical Support Hotline at 800.633.9876. The hotline operates 24 hours a day, as well as weekends and holidays for emergency support. Accurate and timely advice is provided for all your system operation, configuration, and technical questions.

**Design Assistance**

We understand that it can be difficult to know which AV products or system designs will address your unique classroom environments and methods of instruction. Extron has over 30 years of experience developing products and solutions for the education market, and we want to share our experience with you. Simply contact our S3 support line at 800.633.9876 with your project details and we will create a customized solution to suit your needs.

**Extended Warranty Program**

The Extron Classroom AV System Extended Warranty program provides a unique opportunity for PoleVault Digital System owners to receive a two-year extension on all standard warranties, from three years to five years for parts and labor, at no additional cost. To qualify, installation must be completed by an authorized reseller and system controllers connected to the network. Contact your Extron Education Support Team representative to register your project, and receive the benefits of the extended warranty program.

**Education Pricing**

Extron Classroom System products are listed on cooperative purchasing agreements available in most states. These agreements provide not to exceed pricing for schools, libraries, government, and other eligible non-profit agencies. By centralizing the process, these agreements save you time and money. Extron does not sell directly to end users, but contract pricing is available through our Authorized Resellers.
Extron Grant Program

Extron offers several grant programs to qualified K-12 institutions. The goal is to provide increased visibility and expanded access to AV solutions, allowing key decision makers to evaluate technologies and define AV system standards. To date, Extron has granted more than $8.4 million worth of equipment to over 1,350 classrooms in U.S. school districts. The following grant programs are available:

**Classroom AV** - provides an easy-to-use classroom AV switching, control, and audio amplification system.

**VoiceLift Microphone** - allows classrooms to experience the benefits of voice amplification.

**ShareLink** - enables schools to test wireless collaboration and presentation capabilities.

**GlobalViewer Enterprise** - demonstrates the benefits of managing, monitoring, and controlling AV devices over the network. Grant location should have more than 35 Extron IP Link enabled controllers on the network.

**How to Apply**
Complete the application at [www.extronclassroom.com/grant](http://www.extronclassroom.com/grant). Once your information has been submitted, an Extron Grant Administrator will be in touch to discuss your project.

Training & Certification

Extron is the world’s leading provider of training to the professional AV industry, delivering instruction to over 12,000 professionals every year. We offer a wide variety of training and certification programs to help customers keep pace with new technologies and product developments, including:

**The School of Emerging Technologies 4K**
Two-day school that concentrates on preparing AV infrastructure for 4K. Topics include 4K signal processing, wireless for AV, Extron DTP/XTP twisted pair systems, AV streaming, sound reinforcement and audio reproduction, and AV control strategies.

**Extron Control Specialist and Control Professional Certification**
The Extron Control Certification programs are designed to prepare individuals to successfully deploy and maintain customized AV control systems that are built using Extron Pro Series control products and Extron Global Configurator Plus and Global Configurator Professional software. Students can expect a challenging series of education modules focused on control system design concepts, advanced configuration techniques, and troubleshooting.

**XTP Systems Technician and Systems Design Engineer Certification**
The Extron XTP Systems Certification programs involve online and instructor-led training for design and implementation of enterprise-wide digital systems based on Extron XTP Systems. Step-by-step instruction provides a balanced approach to theory and hands-on application with an emphasis on the practical aspects of designing, installing, configuring, and supporting digital AV systems.
Websites for Education Users

Extron education websites are designed exclusively for anyone at K-12 or higher education institutions involved in selecting, purchasing, or supporting AV presentation equipment.

K-12 Website – www.extronclassroom.com
Higher Education website – www.extron.com/highered

Sign up for a login and gain access to:

- Design guides, white papers, product brochures, and a wealth of other AV technology resources
- System Builders - Powerful online tools for configuring and pricing custom classroom AV systems
- Design Assistance
- Grant Applications
- State Contract Pricing
- Case studies, quotes, and video testimonials
- Software downloads

Online Builders and Tools

Our websites provide insiders with access to online calculators, system builders, and engineering resources to help design systems and make the right product selections. Below are a few examples of the tools that are available.

Classroom AV System Builder – A drag-and-drop configuration utility that allows users to customize Extron classroom AV systems. It automatically generates a single part number and allows you to export the system diagram and bill of materials to PDF.

TeamWork System Builder – Choose from a wide range of Extron switchers, enclosures, Show Me® cables or Retractors, and IP Link® control processors to build the system best suited for your collaboration environment.

XTP System Builder – With a few clicks of the mouse, your XTP System evolves from an empty frame to a complete design that includes extenders, accessories, and cabling. It generates an as-configured custom part number and compiles all selected components into a single equipment list.

Audio Calculators - A series of helpful tools for sound system designers, engineers, and technicians that help in determining amplifier power requirements, converting between dBu and dBV or volts, estimating the loss in sound pressure level with an increase in distance, and more.
As a leading manufacturer in the AV industry, we are committed to engineering and manufacturing our products to the highest standards of quality, performance, and value. From our advanced product design, manufacturing and quality control procedures to our friendly and knowledgeable support teams, our commitment to satisfy you is paramount. In every interaction with Extron, you can be confident you will receive our S3 commitment to Service, Support, and Solutions. For 36 years, our objective has been to ensure that every customer is completely satisfied with every purchase.

To underscore this commitment, 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. Our dedicated Education Support Team will contact you after installation to ensure your satisfaction and that systems are being used to their full potential. We 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.

I’m so confident in our ability to deliver on this pledge that I back it personally. If you are not satisfied with any part of your transaction with Extron, I want to know. Please contact me at president@extron.com. I will personally address any unresolved customer issue. We greatly appreciate your business. It is our intent to keep you as a customer for life.

Andrew C. Edwards
President, Extron Electronics
Extron Support
With offices throughout North America, Extron is able to provide dedicated, full-service support to customers.