Networked Classroom AV Systems

Complete IP enabled audio video systems designed to meet the needs of K-12 classrooms

- Complete, centralized AV switching and control systems with stereo audio amplification
- Provides the necessary network infrastructure for students to fully experience streaming audio/video for presentations and videoconferencing
- Integrated network switching allows multiple devices to share a single Ethernet connection and control
- Systems use CAT 5-type cable for quick and easy connections and low-cost installation
- Extron exclusive Auto Power Save and Standby modes lower energy usage and reduce operating costs
- Systems are available for installations with a ceiling mounted projector, wall mounted short-throw projector, or flat-panel display
Networked Classroom AV Systems from Extron provide the necessary infrastructure to enable students to fully experience audio and video in the classroom for many applications, including distribution of video over IP, videoconferencing, and classroom presentations. Extron has specifically designed the components, and configured the packages to provide the most effective performance in the widest variety of classroom environments.

Extron Networked Classroom AV Systems are easy-to-use, network enabled, all-inclusive AV switching and control packages, making them ideal for single display K-12 classrooms. These systems use economical twisted pair cable for transmitting signals and include network connectivity to provide multiple connections to the internet.

**Complete Classroom AV**

Each system includes all the necessary audio and video switching, network connectivity, audio amplification, system control, source connectivity, mounting, speakers, and cabling for a complete classroom AV solution. All that remains is to add the sources and display, so no equipment rack or tabletop space is required and cables are hidden away. Installation is simplified through the use of CAT 5 cable and wall mounted source signal transmitters.

**Wide Variety of Classroom Environments**

Extron Networked Classroom AV Systems systems are available for almost any classroom display environment, including rooms with ceiling mounted projectors, wall mounted projectors, or wall mounted flat-panel displays.

**Standard System**

The standard system is designed for classrooms with a ceiling mount projector. It includes a pole mounted "vault" that securely mounts and conceals system components above the projector.

**Wall Mount Systems**

Two wall mount systems are available; one is designed for classrooms with a wall mount ultra short-throw projector and the other is ideal for use with a wall mounted flat-panel display. Each wall mount system includes a wall mounted "vault" that securely mounts and conceals system components to a wall.

**Centralized Control**

Each Extron Classroom AV System includes the IPCP 305 IP Link® control processor that serves as the Master Control Unit. The IPCP 305 provides vital control for the entire system and ancillary devices that connect to the switcher.

**Simplified Installation While Saving on Space**

In typical classroom AV systems, audio and video switching and amplification devices are mounted in a lectern, on a shelf, or on a desktop. Too often, the equipment is unsecured, unsightly cables are visible, and valuable floor space is used. Extron Classroom AV Systems securely mount the key products in a vault close to the display, so no equipment rack or tabletop space is required and cables are hidden away. Installation is simplified through the use of CAT 5 cable and wall mounted source signal transmitters.

**Energy Efficiency**

Energy management and efficiency features have been built into Extron Classroom AV Systems. They incorporate two exclusive power saving features for lowering energy usage and reducing operating costs. Auto Power Save mode automatically shuts down the amplifier when not in use. Standby mode allows the power down of all peripheral components during scheduled periods of inactivity. In addition, systems support shutdown schedules and access restrictions to make sure displays and components are turned off when not in use. This further reduces energy expenses and extends the life of system components.

**Plenum and UL® Rated Components**

K-12 classrooms adhere to strict building codes to insure the safety of our children. Extron networked classroom systems come standard with components rated for use in plenum airspaces and conform to Underwriters Laboratories requirements for safety.
EACH STANDARD SYSTEM INCLUDES THE FOLLOWING CORE COMPONENTS

- One PVS 305SA IP Switcher/Amplifier
- One IPCP 305 IP Link Control Processor
- One pair of FF 120 plenum-rated Flat Field® Speakers
- Two lengths of SPK18 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 composite video cable – 6’ (1.8 m)
- One MVGA M-M Male to Male Micro VGA Cable – 6’ (1.8 m)
- Three lengths of CAT 5 twisted pair cable for network switch access – Plenum, 35’ (10.6 m)
- Two exclusive AV input wallplates – see below
- One or two lengths of CAT 5 twisted pair cable per wallplate – Plenum, 35’ (10.6 m)

The only difference between the systems is the type of mounting hardware included. See unique features for each system.

**NC 200IP Plus**
Two Input Networked Classroom System for Ceiling Mounted Projector

*Unique Features*
- Includes one PVT RGB D IP Plus – VGA Video, Stereo Audio, Monitor Output and Network Pass-through - Decora Wallplate
- Includes one PVT CV D - Composite Video and Stereo Audio - Decora Wallplate
- Includes one PCM 340 Projector Drop Ceiling Mount with Adjustable Pole
- Includes one PMK 550 Pole Mount Kit
- Includes one UPB 25 Universal Projector Bracket - White

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<th>Model</th>
<th>Version Description</th>
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<td>NC 200IP Plus</td>
<td>Two Input Networked System</td>
<td>80-100-03</td>
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**NC 200IP-ST**
Two Input Networked Classroom System for Wall Mounted Ultra Short Throw Projector

*Unique Features*
- Includes one PVT RGB D IP Plus – VGA Video, Stereo Audio, Monitor Output and Network Pass-through - Decora Wallplate
- Includes one PVT CV D - Composite Video and Stereo Audio - Decora Wallplate
- Includes One USFM 100 Ultra Short-Throw Projector Mount and Equipment Enclosure
- Includes one UPB 25 Universal Projector Bracket - White

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**NC 200IP-WM**
Two Input Networked Classroom System for Wall Mounted Flat Panel Display

*Unique Features*
- Includes one PVT RGB D IP Plus – VGA Video, Stereo Audio, Monitor Output and Network Pass-through - Decora Wallplate
- Includes two PVT CV D - Composite Video and Stereo Audio - Decora Wallplates
- Includes One WMK 150 Wall Mount Kit

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<td>NC 200IP-WM</td>
<td>Two Input Networked System, wall mount</td>
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The Extron PVS 305SA IP 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 IP Link Controller included with the packaged systems.

The PVS 305SA IP 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.

Also included in the PVS 305SA IP is an integrated four-port network switch. This allows up to three devices within the classroom to share a single network drop. One connection is used for the IP Link Controller in the classroom to provide control of the system over the network. The two remaining ports provide network connectivity for other devices in the room such as PCs, laptops, or streaming receivers.

**FEATURES**

- Available exclusively as part of an Extron Networked Classroom AV System
- Receives VGA computer video, composite-video, Ethernet, and stereo audio signals from AV input connections
- Integrated 50 watt rms audio amplifier for stereo or dual mono
- Receives audio and video signals and provides power to AV input wallplates over CAT 5 UTP cable
- Integrated four-port network switch allows three classroom devices to share a single network drop
- A switched auxiliary audio input provides support for audio from an HDMI/DVI video source
- Independent input sensitivity adjustments are provided for program audio
- 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 (part# 70-619-01)
- Software-based tone and dynamics for audio adjustments to meet the needs of the acoustic environment
- Auto power save and Standby modes provide energy efficiency to reduce operating costs
- External power supply included
DEDICATED K-12 EDUCATION MARKET SUPPORT PROGRAMS

Extron’s friendly and knowledgeable Education support team is always ready to assist with product or application questions, technical support, and system design advice. You can be confident that our highly trained staff will provide you with any resources or support needed.

The Extron K-12 Education Market Support Team provides the following support and training programs:

- Product availability status
- Complimentary System Design Program
- Classroom AV System Configurator
- Classroom Technology Grant Programs
- Extended Warranty Program
- State Contract Pricing
- Product presentation and training videos
- On-Line and On-Site Training and Development
- Configurable Control System Hands-on Training
- Advanced Certification
- Project and Technical Troubleshooting
- Support and Repairs Open Account

For more information about the program and benefits, please contact your S3 K-12 Education Support Team at 800.633.9876

OUR DEDICATION TO CUSTOMER SATISFACTION

Extron was founded on the core value of professional integrity with the ultimate goal of complete customer satisfaction. This commitment is reflected in our three guiding principles: Service, Support, and Solutions.

Service
Our friendly, knowledgeable support team is always ready to assist with product or application questions, technical support, and system design advice. You can be confident this highly trained team will provide you with any resources needed to support you, and help simplify the task of system integration.

Support
Extron believes in the value of educating our customers, not just selling a product. We present a wide variety of training and educational programs in the US, Europe, and Asia each year to broaden your AV knowledge and help you keep pace with new technologies and product developments.

Solutions
No solution is complete without the right product. Our wide selection of innovative product solutions meets the needs of any application. Each product is engineered to provide the performance, dependability, and value you can rely on to meet your highest expectations.