

VoiceLift Pro

High Performance Wireless Microphone



Extron

Classroom Sound Field Systems

For Enhanced Educational Experiences

The primary mode of learning in the classroom is listening. Students are listening to the teacher and to each other. Researchers have estimated that students spend 45-75% of the school day engaged in listening activities. Unfortunately, the typical classroom has been shown to have acoustical characteristics, such as background noise, reverberation, and distance, that are detrimental to students with normal hearing, as well as students with a hearing loss or hearing difficulties. One of the ways to overcome these barriers to learning is to create a sound field in the classroom by using a wireless microphone, amplifier and speakers. Studies show that significant gains in student achievement and teacher effectiveness can be made by simply ensuring that the teacher can be heard.

Student Benefits

Educators and researchers have documented measurable results in student achievement for classrooms that use voice amplification. In 2004, Leah Chelius compiled data from an elementary school in Canby, Oregon, into what is commonly called "The Trost Study", and found the following:

- First grade students scored an average of 35 percent higher on the Dynamic Indicators of Basic Early Literacy Skills – DIBELS
- The same group scored an average of 21 percent higher on the Developmental Reading Assessment – DRA
- Third grade students scored an average of 21 percent higher on Oregon's Technology Enhanced Student Achievement test.



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

Research resulting from the MARRS project, another definitive study in this area, has also shown that improved classroom environments are a direct result of the use of classroom amplification. It found that the use of classroom amplification systems results in easier classroom management due to increased student attention, decreased discipline problems, less student distraction, and less need to repeat instructions.

Teacher Benefits

Classroom amplification systems allow teachers to spend the day speaking at a natural level, which significantly reduces voice strain and vocal fatigue. The MARRS Project also found teacher absences due to vocal strain decreased from 15 percent to an average of 2 to 3 percent in one year. In addition, it uncovered that teachers who use classroom amplification systems enjoy virtually unlimited freedom to move around the classroom while maintaining a stable acoustic environment. Wherever a teacher is located in relation to a student, even when the teacher's back is turned, students can hear clearly.

VoiceLift Pro Microphone

High Performance Wireless Microphone



Extron VoiceLift® Pro Microphone applies state of the art RF wireless technology to 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 range, with reduced interference. VoiceLift Pro integrates seamlessly with any PlenumVault, WallVault or PoleVault installation, providing a complete classroom AV and voice amplification solution.

Enhanced 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 fluorescent lighting, that create problems for infrared systems. It also does not suffer from the licensing restrictions and proximity issues of traditional RF microphones.

Increased Range

VoiceLift Pro technology operates at distances of up to two times further than infrared and much more reliably. VoiceLift Pro transmission technology does not require line of site, increasing flexibility in how and where the pendant microphone is worn as well as the room environments in which it may be used.

Pairing Benefits

The VoiceLift Pro Microphone uses pairing technology to establish an exclusive relationship between the microphones and the receiver, preventing interference between microphones in adjacent classrooms.

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 RJ45 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 Remote Control

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 instructs an Ethernet-enabled MediaLink controller or IP Link control processor to notify school officials and authorities via e-mail or text message. A function button on the pendant makes it easy to control optional capabilities such as lecture capture, podcast recording and more.

VoiceLift Pro Microphone

For Use With PoleVault Digital Systems

VoiceLift Pro Microphone packages are specifically designed for integration into new or existing Extron PlenumVault, WallVault, or PoleVault Systems. These complete AV switching and control systems are easy to install, use, and support, making them ideal for single display classrooms. All VLM systems include a pendant microphone, receiver, and charging station, as well as cables necessary for connecting to an Extron Classroom AV System. The VLM 3002 adds a second pendant microphone while the VLM 3002H adds a handheld microphone.



Each standard system includes the following core components:

- VLP 302 VoiceLift Pro Pendant Microphone
- VLR 302 VoiceLift Pro Receiver
- VLC 302 VoiceLift Pro Charging Station
- 3' CATx shielded twisted pair cable for connecting the receiver and switcher

Model	Version Description	Part Number
VLM 3001	Single Pendant VoiceLift Pro Microphone	42-255-01
VLM 3002	Two Pendant VoiceLift Pro Microphone	42-255-02
VLM 3002H	Pendant and Handheld VoiceLift Pro Microphone	42-255-03

VoiceLift Pro Microphone System

Complete Voice Amplification Solution

VoiceLift Pro Microphone Systems include all the components necessary to create a complete classroom sound field solution. All VLS systems include a pendant microphone, receiver, and charging station as well as a switcher/amplifier, speakers, and cables. The VLS 3002 adds a second pendant microphone while the VLS 3002H adds a handheld microphone.



Each standard system includes the following core components:

- VLP 302 VoiceLift Pro Pendant Microphone
- VLR 302 VoiceLift Pro Receiver
- VLC 302 VoiceLift Pro Charging Station
- PVS 407D IP-Enabled Digital PoleVault Switcher with Integrated Amplifier
- FF 120 plenum rated Flat Field® Speakers, pair
- 3' CATx shielded twisted pair cable for connecting the switcher and receiver
- 100' SPK 18 Precut Speaker Cable – Plenum

Model	Version Description	Part Number
VLS 3001	Single Pendant Complete VoiceLift Pro System	42-256-01
VLS 3002	Dual Pendant Complete VoiceLift Pro System	42-256-02
VLS 3002H	Pendant and Handheld VoiceLift Pro System	42-256-03

VoiceLift Pro Pendant

State of the Art Wireless Microphone



VLP 302

VoiceLift Pro Pendant Microphone:

- State of the art wireless technology provides higher sound quality, increased reliability, and greater range, with reduced interference
- Lightweight enclosure with adjustable lanyard for around the neck, or clip for attaching to clothing
- Volume controls offer easy voice level adjustment
- Power/Mute button silences the microphone for private conversations or when not in use
- Instant Alert and function buttons
- Auxiliary microphone input enables connection of optional external lavalier or headset microphone
- High capacity rechargeable battery lasts for the entire school day on a single charge

VoiceLift Pro Components

Receiver, Handheld and Charging Station

VLR 302

VoiceLift Pro Receiver:

- Supports pairing of up to two microphones
- Status LEDs indicate power and connection status
- Two relays for triggering Instant Alert and other functions such as lecture capture and podcast recording
- RJ45 output for connection with PoleVault switchers
- Compact enclosure provides flexible mounting options



VLH 302

VoiceLift Pro Handheld Microphone:

- Ideal for use as a pass around microphone for student presentations or a secondary microphone for team teaching and guest speakers
- On/Off/Mute switch
- Anti-roll collar ensures microphone will not roll off flat surfaces
- Auxiliary input provides connection for unbalanced stereo audio devices



VLC 302

VoiceLift Pro Charging Station:

- Charges up to two VoiceLift Pendant or Handheld Microphones simultaneously
- Mini-B USB power port
- Durable polycarbonate construction
- Protects microphones when not in use
- May be placed on desk, table, or shelf



K-12 Education Support Team

Extron's friendly and knowledgeable K-12 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 Support Team provides the following support and training programs:

- ▶ Product availability status
- ▶ Design Assistance Program
- ▶ Classroom AV System Builder
- ▶ Classroom Technology Grant Programs
- ▶ Extended Warranty Program
- ▶ Education 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

Locations and Contact Information



Extron USA West - Worldwide Headquarters

Extron Electronics
1025 E. Ball Road
Anaheim, CA 92805



Extron USA East

Extron Electronics
2500 N. Raleigh Boulevard
Raleigh, NC 27604

www.extronclassroom.com