



ezRoom<sup>®</sup> AV solutions –  
everything but the display

Introducing ezRoom

Designed specifically for the K-12 classrooms, FrontRow ezRoom is an “everything but the display” system for school looking for a comprehensive, dynamic, and expandable integrated communication. ezRoom combines classroom audio, networked AV control, and school-wide communication into one nearly invisible package.

ezRoom uses FrontRow’s advanced smart microphones for classroom voice amplification. FrontRow smart mics achieve superior sound clarity that makes your highly effective teachers more intelligible for students and increasing educational outcomes for both remote and in-class learners. The mic buttons, along with other fixed buttons in the room, can be programmed to send alerts to the front office, campus police, nurse’s station, or anywhere else specified in your Emergency Preparedness Plan (EPP).



Teacher

Speaking normally, they can be heard throughout the room or online, so students remain engaged.



Students in class

Student mics clarify student voices, boost confidence and participation



Control panel

Single, fixed location for all AV controls and help buttons.



Ceiling speakers

Distribute voice, media, and paging audio evenly throughout the room



Wall speakers

Distribute voice, media, and paging audio evenly throughout the room



Office

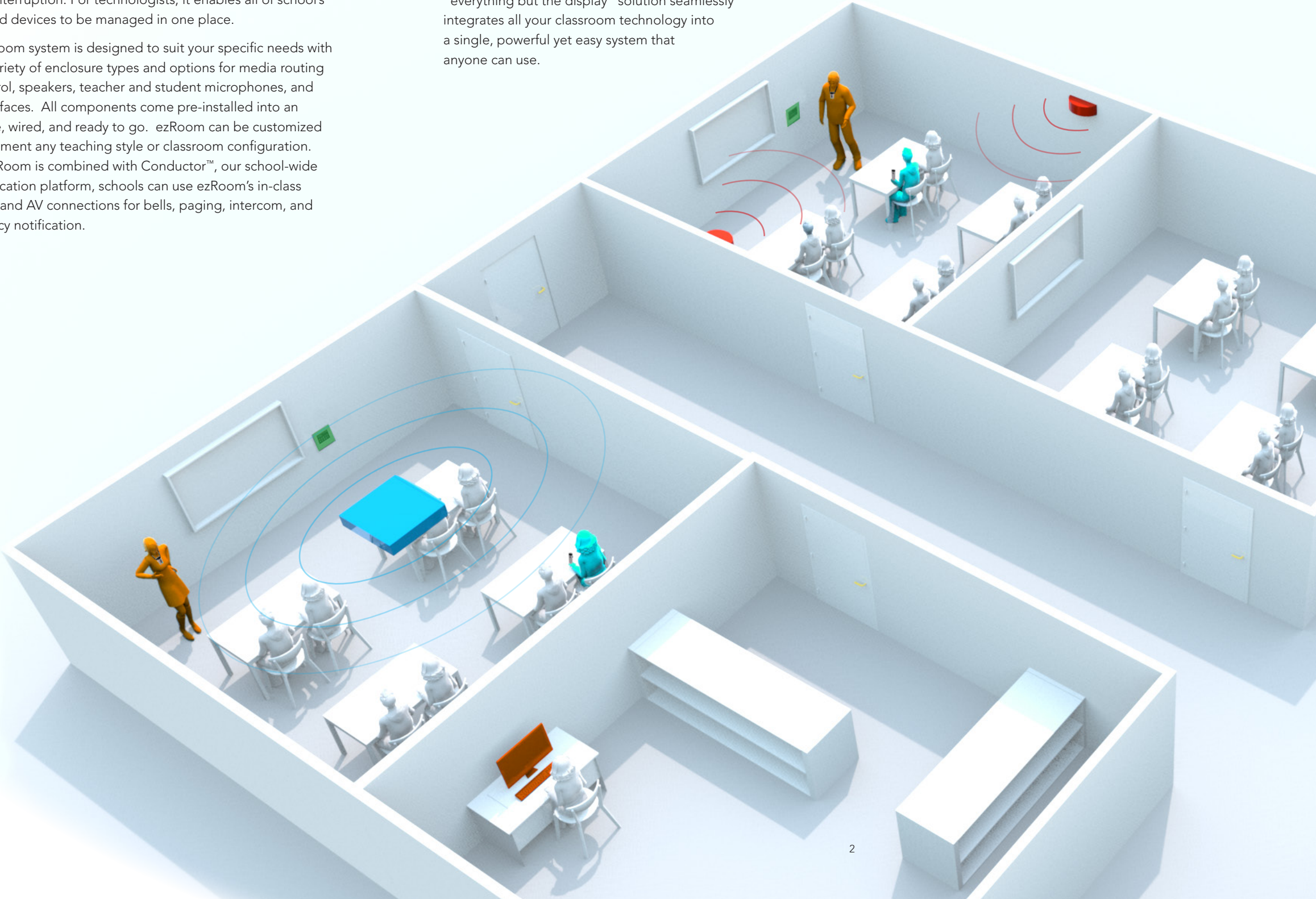
Creates bell zones and schedules, and makes pages and intercom calls

ezRoom is the ultimate device management tool for both teachers and educational technologist. For teachers, it consolidates all controls in a single interface, so instruction flows without interruption. For technologists, it enables all of school’s networked devices to be managed in one place.

Each ezRoom system is designed to suit your specific needs with a wide variety of enclosure types and options for media routing and control, speakers, teacher and student microphones, and user interfaces. All components come pre-installed into an enclosure, wired, and ready to go. ezRoom can be customized to compliment any teaching style or classroom configuration. When ezRoom is combined with Conductor™, our school-wide communication platform, schools can use ezRoom’s in-class speakers and AV connections for bells, paging, intercom, and emergency notification.

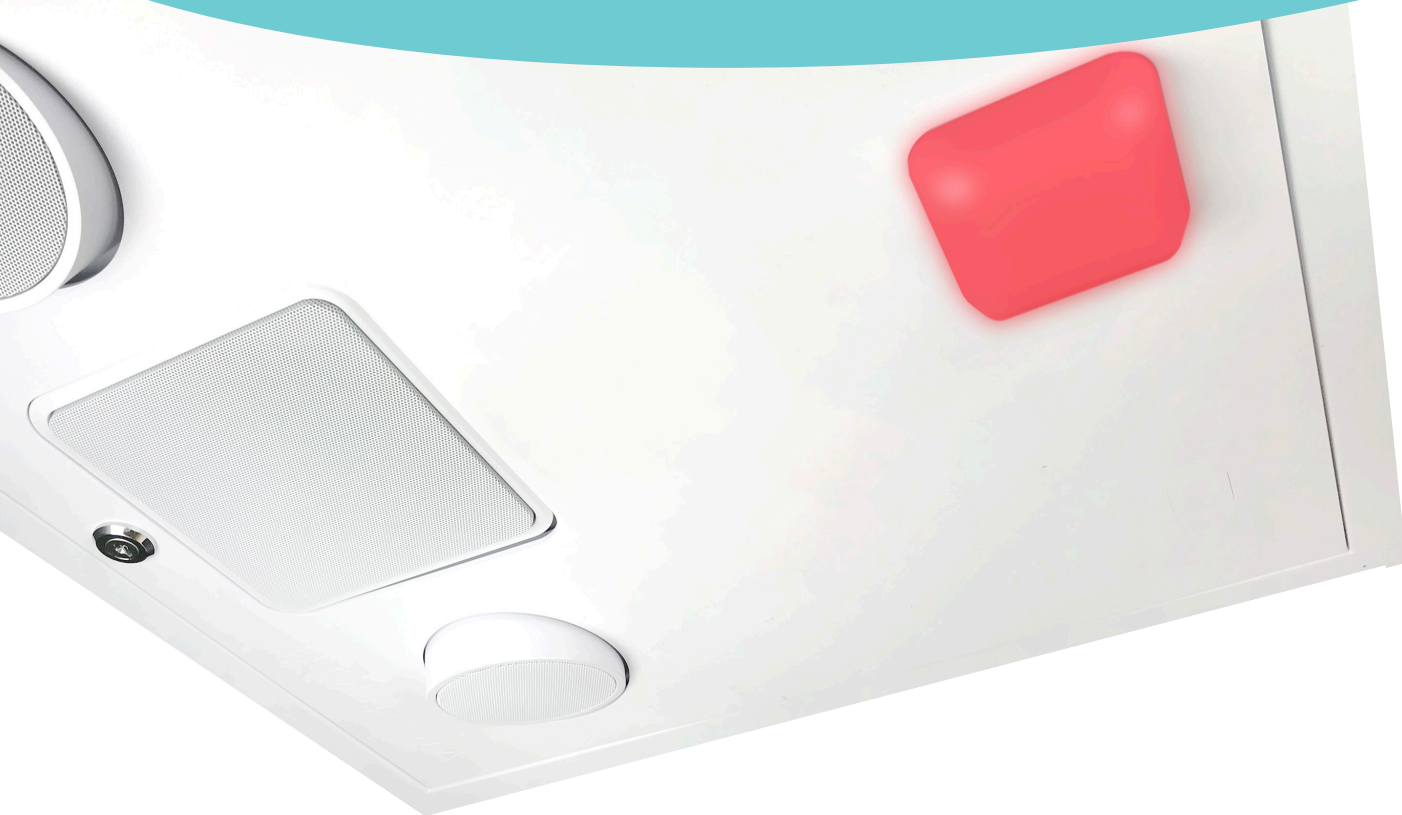
ezRoom makes communication effortless

Frontrow’s ezRoom enhances communications in class, throughout a school, and online for remote learners. From voice amplification to AV control, this “everything but the display” solution seamlessly integrates all your classroom technology into a single, powerful yet easy system that anyone can use.





# ezRoom® Benefits



ezRoom is great as a stand-alone classroom audio solution, but it is even better when combined with Conductor™. ezRoom acts as an in-class endpoint for most cross-campus communications, when used in concert with Conductor™. Bells, direct paging, intercom calls, alerts, and emergency notifications are routed through ezRoom's classroom speakers.

Teachers can respond to communication requests handsfree or even initiate an emergency procedure by pressing the panic button on their teacher microphone. When an emergency procedure is activated, your ezRoom campus-wide communication system can be configured to automatically notify first responders and trigger ActionScript commands to networked devices to alert students, staff, parents and first responders.

When every part of a school's communication system is interconnected, critical information or instructions can be efficiently and effectively be communicated. From the front office, or any admin station on the local area network, school officials can communicate directly with any part of the campus or play prerecorded messages that overrides content on displays and speakers in the classroom.

ezRoom can also be implemented to enable district-wide communication and device management for remote support, control, and energy management.



## Customize your ezRoom

First, decide if your ezRoom will be a classroom-only system or connected to **Conductor**. After that, building an ezRoom system is, well...easy.

STEP  
1

### Choose your solution...



AV



Voice



Voice & Alert

STEP  
2

### Choose microphones...



ELEVATE Action! Mic



Panic Button



ELEVATE Bravo! Mic



Teacher Mic



Student Mic

STEP  
3

### Choose controllers...



Touch



Keypad



Bluetooth



Volume



Combo

STEP  
4

### Choose speakers...



IR Speaker



Distributed Ceiling Speakers



2x2 Lay-in Speaker



1x2 Lay-in Speaker

STEP  
5

### Choose input sources...



HDMI



USB



Audio



Bluetooth



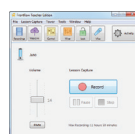
Video Conferencing Kit

STEP  
6

### Additional options...



Campus Communication



Lesson Capture



HDMI 4x4 Matrix



Power Over Ethernet



STEP 1

# Three form factors to fit any classroom

Each ezRoom solution offers any of three form factors and comes with all components prewired and secured in the ezRoom enclosures. Each solution provides an IP-addressable network amplifier, Ethernet switch, hinged locking RF-friendly door, and RS-232 ports for control of displays and other classroom technology.

PlenumCore 2x2



For use with distributed speakers. Designed for drop ceilings, and includes safety cables and knockouts for electrical installation.

Trio



With built-in woofer and two tweeters, no additional speakers necessary. Designed for drop ceilings, and includes safety cables and knockouts for electrical installation.

WallCore



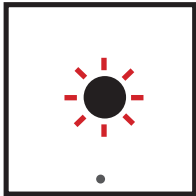
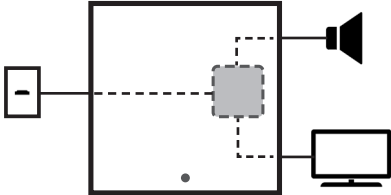
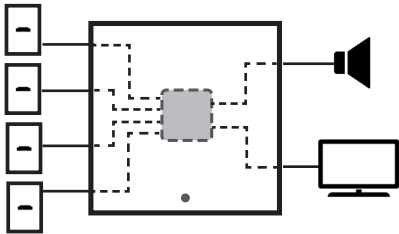
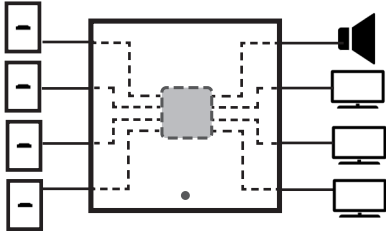
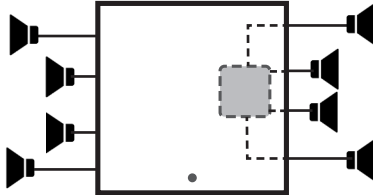
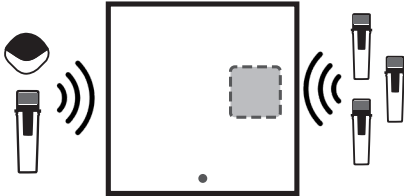
Designed for walls or hard surfaces, with optional dual-gang port for control panels.

	ezRoom AV	ezRoom Voice	ezRoom Voice & Alert
AV Control	✓	✓	✓
Media Amplification	✓	✓	✓
Paging & Intercom ready	✓	✓	✓
Teacher & Student Voice		✓	✓
Superior Voice Quality		✓	✓
Teacher Alert			✓
Action Buttons			✓
Communication Technology		IR	ELEVATE

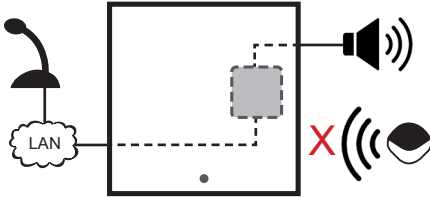
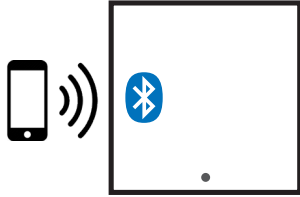
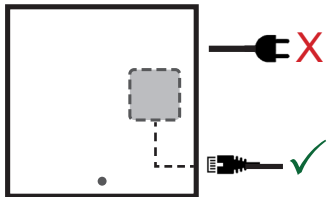
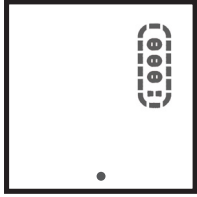
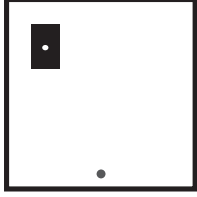
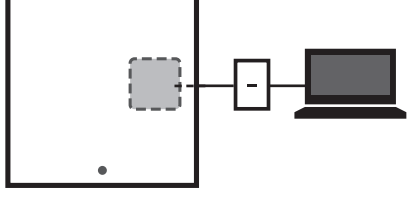
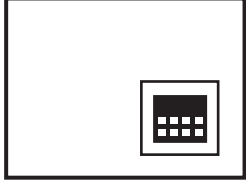
# ezRoom® Preinstalled Options

## STEP 1

Frontrow's ezRoom simplifies classroom management and enhances classroom communication. From voice amplification to AV control, this "everything but the display" solution seamlessly integrates all your classroom technology into a single, easy-to-use system. When specifying an ezRoom system, choose from the following preinstalled options to customize your system. FrontRow will handle all the wiring and connections inside the ezRoom enclosure for a professional look and secure setup. The ezRoom enclosure will then be ready to install in the classroom, saving time and money.

CHOOSE ONE	<b>Integrated IR sensor</b>	For IR-based systems. Provide full classroom coverage for microphones without having to install additional sensors.	
	<b>Audio Extraction</b>	Allows ezRoom to de-embed audio from HDMI sources so it can be played through the ezRoom speakers or be independently routed.	
	<b>4x1 HDMI inputs</b>	Switches between up to four HDMI sources, while de-embedding audio so it can be played through the ezRoom speakers.	
	<b>4x4 HDMI</b>	Allows ezRoom to route video from up to four sources to four separate destinations with independent audio switching.	
	<b>Speaker Expansion</b>	For IR-based systems, allows the connection of an additional four speakers to the ezRoom for increased coverage in larger rooms.	
	<b>Channel Expansion</b>	For IR-based systems, allows the addition of up to three microphones, for a total of five microphones per system (ELEVATE supports four microphones per system out of the box).	

# ezRoom® Preinstalled Options

<b>Page Override</b>	Automatically mutes the teacher's voice and other audio when a page comes through the ezRoom. Includes split-core transformer detection of page signal.	
<b>Bluetooth®</b>	Allows users to wirelessly play audio through the ezRoom system from any Bluetooth enabled device.	
<b>PoE Backup</b>	Provides critical paging functionality in the event of a power outage. Includes PoE+ 802.3at extractor.	
<b>Power Strip</b>	Allows integrators to more easily include other technologies without running extra power to 2x2 enclosure.	
<b>Integrated Room Mic</b>	Allows any ezRoom to function as an intercom device with or without a teacher microphone.	
<b>Video Conference Cable Kit</b>	Enables a single USB connection to the teacher's computer for audio to and from ezRoom. Combine with a USB wall plate.	
<b>Control</b>	Add touch, keypad, and other control options to the WallCore Control for an integrated solution.	

# Microphone Options

## 2 STEP

### <Action!™ Teacher Microphone

**ELEVATE** is our latest advanced communication technology that not only provides natural voice tone and clarity, but also knows your homeroom! **ELEVATE** takes advantage of DECT® wireless communication technology to enable the **Action!** mic to do amazing things. Dedicated Action buttons can call up any classroom scenario, controlling AV devices, turning off lights\*, muting other audio devices, and more. Press and hold Alert buttons on the side of the mic can trigger an alert to the office, or a lockdown if needed.

ELEVATE™



### Bravo!™ Student Microphone

Our **Bravo!** student microphone is easy for students to hold and even easier to use. The student microphone has superb voice pick up and audio quality thanks to a high-isolation microphone suspension, broad frequency response and digital synthesis. Just like our teacher microphone, the lightweight lithium-ion battery charges quickly and has 8+ hours of talk time.

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## Teacher Microphone

Our teacher microphone has superb voice pick up and audio quality thanks to a high-isolation microphone suspension, broad frequency response and digital synthesis. The single-button design is simple to use, lightweight, ergonomic and goes to sleep automatically when not in use. The lightweight lithium ion battery charges quickly and has 7+ hours of talk time.

When used with Juno™ Connect or ezRoom® Smart Receiver, the single, programmable button allows teachers to mute/unmute or give voice commands to adjust volume, control other devices and record lessons. When used with Conductor, teachers can use the button to call the front office or trigger school-wide alerts. It also includes a 3.5mm audio input jack for wireless transmission from any secondary audio source such as a computer or MP3 player.



## Student Microphone

Our small, lightweight student microphone is easy for students to hold and even easier to use. The mic comes with a comfortable lavalier clip that provides a hands-free option and lets the pass-around mic double as a teacher microphone if needed.

The student microphone has superb voice pick up and audio quality thanks to a high-isolation microphone suspension, broad frequency response and digital synthesis. Just like our teacher microphone, the lightweight lithium ion battery charges quickly and has 7+ hours of talk time.

It also includes a 3.5mm audio input jack for wireless transmission from any secondary audio source such as a computer or MP3 player.





## 3 STEP

### Touch

The CB6000 touch screen puts AV control at your fingertips. Turn projectors and TV's on/off, change inputs, adjust audio volume, pair/control Bluetooth® audio and control devices like DVD players and AppleTV. Users can call the office and trigger alerts when paired with Conductor.



### Keypad

The CB2000 keypad panel organizes classroom device control into a single, customizable, eight button panel. Turn projectors and TV's on/off, change inputs, adjust audio volume, pair/control Bluetooth audio and control devices like DVD players and AppleTV. Users can call the front office and trigger alerts when paired with Conductor.



### Volume

The CB50 is a rotary volume control that is also a programmable push button. Button press can be programmed to turn devices on/off, call the front office or trigger an alert.



### Combo

The CB2050 combines the CB2000 and CB50 into a double gang for intuitive volume control and advanced device control.



### Bluetooth®

The CB55 control panel allows easy pairing and audio control of Bluetooth devices. Connect a computer, phone or any other device to stream wireless audio through ezRoom systems. 3.5mm audio in allows simple connectivity to add a hardwired device and the 3.5mm audio out with gain control allows quick connectivity and control for an Assisted Listening Device (ALD).



# Speaker Options

## 4 STEP

### IR Speaker

Our IR Speaker is a combination of speakers and sensors in a great sounding, easy-to-install unit. It provides extremely robust IR coverage throughout the classroom. Each cluster gives full range sound quality and twice the coverage of a single speaker. Install only two IR speakers per classroom to provide the same coverage as four speakers and two sensors (in half the installation time).



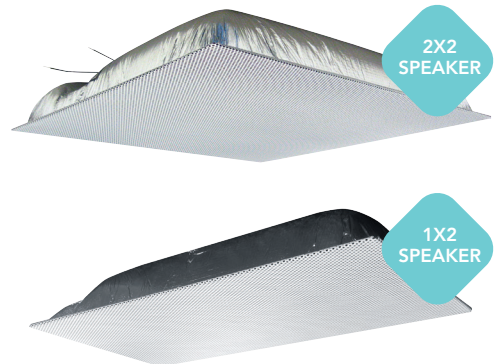
### Distributed Ceiling Speaker

Our Distributed Ceiling Speakers provide great sound coverage and full range for faithful reproduction of voice and music. A separate back enclosure, designed for plenum spaces, prevents sound from traveling to other classrooms. The speaker mounts flush with the ceiling for a neat installation.



### Lay-in Ceiling Speaker

These plenum rated speakers are easy-to-install and blend in perfectly in ceiling grid environments. Unique speaker design provides excellent sound quality and coverage for voice and music. Most standard classrooms require only two speakers, however as many as eight speakers can be connected for larger spaces.



### IP Speaker System

In Conductor installations, not all rooms may have an ezRoom. These rooms – teacher's lounge, library, and more – still need paging coverage to make sure bells and announcements are heard. The IP Speaker is the perfect, cost-effective solution for these areas. The IP Speaker Kit replaces a 2x2 ceiling tile and mounts flush in a drop ceiling grid.



## STEP 5

### HDMI

Adds an HDMI input to the system, through which audio and video are digitally transferred from the HDMI enabled devices, such as Blu-ray players, computers, and A/V receivers.



### USB + Audio

Adds USB and audio input, for connecting to the teacher's computer and a portable device such as a mobile phone.



### 3.5mm Stereo Audio

Adds stereo audio out for connecting to headphones or ALD devices.



### Bluetooth®

Allows users to wirelessly play audio through the ezRoom system from any Bluetooth enabled device.



### Video Conferencing Software

Connect your FrontRow classroom audio system to your computer for video conferencing and easy LessonCapture via a single USB cable with the Class2Home cable kit.



Class2Home



# Additional Options

## 6 STEP

### Conductor Campus Communication

Conductor™ is a robust IP-based school communication and device management solution. In a typical district, systems don't talk to each other. And management responsibility is often split between IT, facilities, and instructional technology. Classrooms often have two unrelated sets of amplifiers and speakers — one for paging, and one for multimedia and voice. The result is hundreds of meters of redundant wiring in the walls, copious hours spent on duplicate installation, and unnecessary expenses.

Conductor brings operational and financial benefits by efficiently using existing your school and district network infrastructure, can be easily mastered by IT staff, minimizing the need for outside technicians. It communicates through the speakers and amps in your ezRoom systems, reducing unnecessary and costly redundancy by integrating everything into a single IP-based system. A properly programmed and implemented Conductor system lets you control or communicate practically anything across the school.



### Lesson Capture

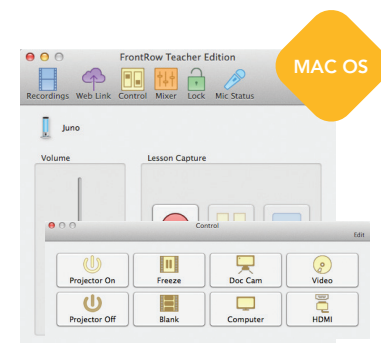
FrontRow Control Lesson Capture makes lesson capture and sharing effortless so students are always prepared. Lesson Capture records the screen content and audio, then automatically titles the recording based on the instructor's schedule and saves it to a pre-determined location. Lesson Capture is available with any FrontRow classroom audio system including Juno, Pro Digital, and ezRoom.

#### AV Control

FrontRow Control is a plug-in for use with ezRoom or Juno Connect. FrontRow Control enables teachers to control projector, audio setup, and lesson capture within the same application. Enables programming of up to eight buttons to turn display on and off, change input sources and more.

#### Juno Control

When used with a Juno system, FrontRow Control also makes controlling Juno settings easy. It enables volume control and other audio settings right from the desktop.



## HDMI 4x4 Matrix

Allows ezRoom to route video from up to four sources to four separate destinations with independent audio switching.



## Power Over Ethernet

Provides critical paging functionality in the event of a power outage. Includes PoE+ 802.3at extractor.



## FrontRow Control for iOS

Available on the App Store and Google Play, FrontRow Control is a dynamic, user friendly app that works directly with the CB6000 control panel. The buttons and actions match the CB6000 touch screen to make it easy to learn and switch between mobile device and wall panel and allows the teacher to update the text on the app and the control panel simultaneously.



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