

## DESCRIPTION

Infrared wireless sound system built on a digital platform designed to evenly distribute the voices of the teacher, individual students and multimedia audio throughout the classroom, ensuring clear communication no matter where children sit

## APPLICATION & BENEFITS

Increase speech intelligibility in general education classrooms to foster a successful learning environment. Increase student comprehension, attentiveness, participation and test scores, while significantly reducing behavior referrals. Significantly enhance ESL instruction and pre-reading exercises in phonemic awareness. Significantly increase teacher vocal comfort and reduce teacher absenteeism due to vocal fatigue

## KEY FEATURES

- ENERGY STAR qualified standby mode uses 73% less energy than comparable analog systems and allows "one-touch" operation
- Powerful ADAPTO® digital platform optimizes sound quality, power use and suppresses feedback before it starts
- Auxiliary audio inputs and output allow for seamless integration with other audio-visual equipment and enables Podcasting

## RECEIVER

- ADAPTO® digital platform
- One-touch operation
- 2 microphone channels
- 2 stereo aux-inputs
- 1 mono aux-output
- Integrated infrared sensor
- OPTIVOICE enabled
- ENERGY STAR® qualified
- Lead-free construction

## PENDANT MICROPHONE

- Lightweight and comfortable
- Excellent sound quality
- Easy-to-reach mute button
- 2 integrated directional mics
- 2 channel (switchable) IR transmitter
- SMARTCHARGE, failsafe charging
- Lead-free construction

## TYPICAL PACKAGE

- Receiver
- Pendant microphone
- Wall/ceiling sensors
- Four wall/ceiling speakers
- Optional student pass-mic

## specifications:

# frontrow™

pro digital

## infrared classroom amplification system



Adaptive intelligence makes FRONTROW PRO DIGITAL the most time-saving, energy-saving, hassle-free way to improve learning in every classroom

## Technology for the sake of teaching



**ENERGY STAR saves money (and maybe the planet).** Products that earn the ENERGY STAR® — strict energy efficiency standards set by the US Government — use up to 50% less energy.



**Digital intelligence.** Faster than the speed of thought — a blistering 500 times per second on the VC5502™ processor by TEXAS INSTRUMENTS — the ADAPTO platform automatically adjusts sound quality, power usage, and other complex details. ADAPTO adapts so teachers can teach.



**OptiVoice™ clarity.** A powerful tool for test-taking, directions, and ELL instruction. Fragile consonant sounds carry about 75% of the meaning in speech but are easily destroyed by background noise. OPTIVOICE strengthens these critical sounds, doing the work of a 12-band equalizer with a single switch.



**SmartCharge™ peace of mind.** The greatest killer of electronics is accidental recharging of alkaline batteries. SMARTCHARGE technology only charges batteries that are safe to charge — protecting your investment for years to come.



**Earth-friendly design.** FrontRow's design and manufacturing practices keep lead, mercury, PBDE and other toxins out of its products — and out of the environment.



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# frontrow™

# 940R RECEIVER

## one-touch operation

Teachers need only turn on the mic to start teaching. The receiver automatically wakes up from its energy-saving sleep mode and goes to sleep when the mic is turned off.

## two channels for more dynamic teaching

Encourage student participation with a pass-around mic; or amplify two teachers at the same time

## optimize speech clarity

OPTIVOICE is specially designed to emphasize critical speech sounds, so kids comprehend even more



## talk without dropout

Three built-in sensors with advanced optics ensure consistent signal pick-up

## feedback suppression

The ADAPTO light reassures you it is automatically suppressing feedback – before it starts.

## easy audio control

Quickly and easily adjust the volume level of streaming audio and video content, TV/DVD/VCR, CD's and MP3 files.

## simple speaker hook-up

Color-coded stereo push terminals make speaker connection quick and easy

## auxiliary output

Connect to computer to record all audio content for Podcasting, or connect personal FM systems for the hearing impaired.



## easy recharging

Up to two transmitters can be charged directly from the receiver

## complete tech integration

Easily connect a computer, TV/DVD/VCR or other technology to integrate true stereo audio into your lessons.



## SPECIFICATIONS

- Transmission type: Infrared
- Receiving frequency: 2.3MHz & 2.8MHz
- Frequency response: 50Hz to 10kHz
- Signal-to-noise: >65dB (system)
- TDH: <1% @ 1kHz into 8Ω
- Speakers: 8Ω
- Maximum audio output power: 2 x 10w (8Ω), 2 x 20w (4Ω)
- Power supply: 19VAC at 3.16A
- Size (wxdxh): 21.5 x 23.5 x 2.25cm/8.5 x 8.3 x 1.75in
- Weight: .94kg/2.11lbs
- Operating range: 18.5m/60ft line-of-sight (typical)
- Reception area: 163m<sup>2</sup>/1225ft<sup>2</sup> (typical)
- User controls:
  - Power
  - Microphone A volume
  - Microphone B volume
  - Two auxiliary audio volume
  - OPTIVOICE™
- Inputs/outputs:
  - Input power jack
  - 1.3mm mic charge jack
  - 3 RCA jacks for external sensor connection
  - 4 quick-connect speaker terminals
  - RCA aux out jack
  - 2 RCA stereo aux in jacks (with stereo sound output)

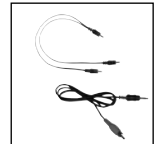
## 940R ACCESSORIES



receiver power supply



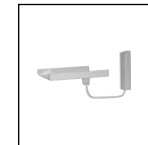
AC power cord (for power supply)



transmitter charge cord aux-out cord

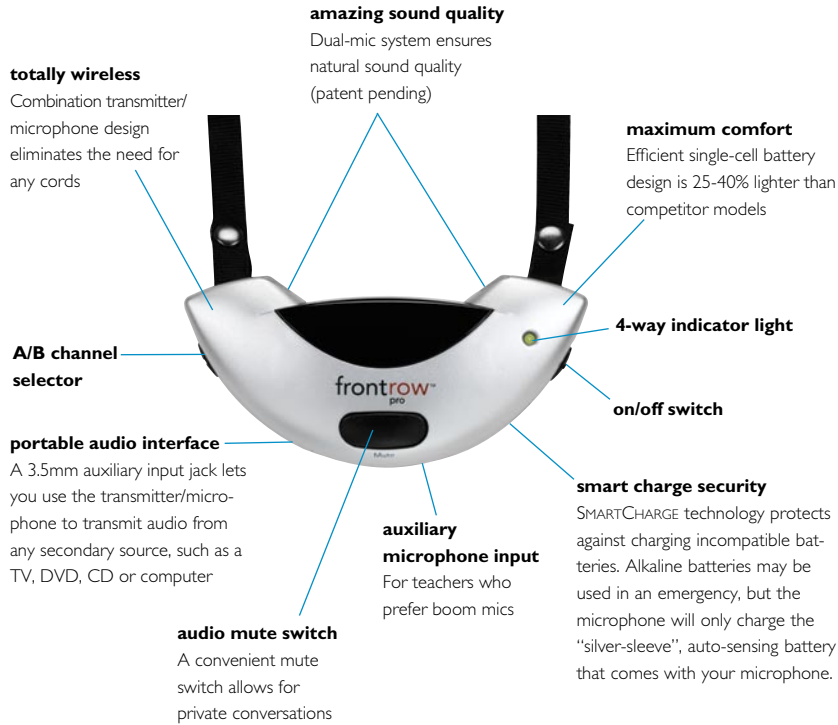


RCA/RCA Aux-in cord  
RCA/3.5mm Aux-in cord



receiver wall mount

## 940TM TRANSMITTER/MICROPHONE



### SPECIFICATIONS

Transmission type: Infrared  
 Transmitting frequency: 2.3MHz & 2.8MHz (switchable)  
 Microphones: dual uni-directional cardioid  
 Battery life: minimum 8 hours  
 Battery type: single AA, 2500mAh rechargeable NiMH)  
 Operating range: 18.5m/60ft line-of-sight (typical)  
 Size (w×h×d): 11 × 6 × 2.5 cm/4.5 × 2.5 × 0.9 in  
 Weight: 85g/3.0oz (with battery)

User controls:

- On/off
- mute
- channel A/B

Inputs/outputs:

- 2.5mm mic input
- 3.5mm aux input
- 1.3mm DC charge jack

### 940TM ACCESSORIES



SMARTCHARGE NIMH rechargeable battery

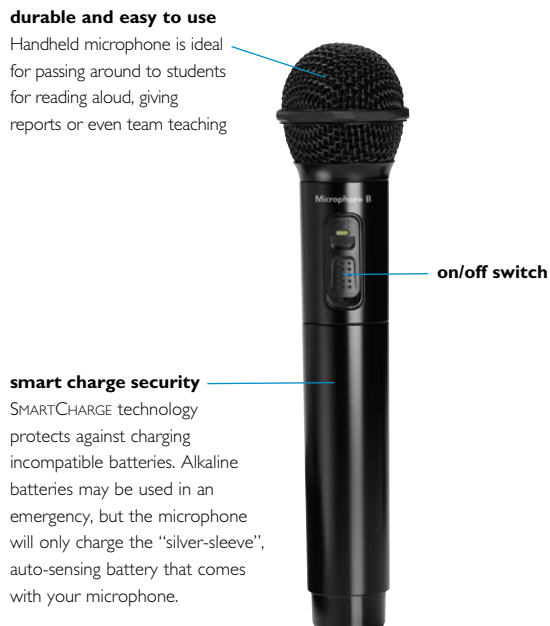


aux-in cable



boom mic

## 940H TRANSMITTER



### SPECIFICATIONS

Transmission type: Infrared  
 Transmitting frequency: 2.8MHz  
 Frequency response: 50Hz to 16kHz  
 Operating range: 40ft (12m)  
 Batteries: 1 NiMH rechargeable battery  
 Size: 9.5 × 2.25 × 2.25 in. (24 × 5.5 × 5.5 cm)  
 Weight: 11 oz (312g)  
 User controls: on/off

### 940H ACCESSORIES



SMARTCHARGE NIMH rechargeable battery



charger power supply

## CEILING SENSOR

### power indicator

Green LED power indicator lets you know when unit is connected properly

### easy-to-install bracket

Unique twist-on bracket design allows quick and easy installation; no need to make any holes in acoustic tile drop ceiling



### 360 degree 'full-sweep' signal coverage

Semi-spherical reception means you can install the ceiling sensor without worries about dropout



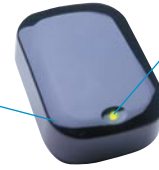
## SPECIFICATIONS

Operating frequency: 2.3MHz & 2.8MHz  
 Operating range: 18.5m/60ft line-of-sight (typical)  
 Signal/Power interface: RCA-female jack, 8" lead  
 Number of IR LEDs: 6  
 Power indicator LED: Green  
 Reception area: 232m<sup>2</sup>/2500ft<sup>2</sup> (typical with receiver sensors)  
 Dimensions (DIA x H): 13.5 x 3.3 cm/5.1 x 1.3 in  
 Weight: 224g/7.9oz (with bracket)  
 Mounting: Drop ceiling acoustic tile or sheetrock ceiling  
 Sensor wire: RG58/u coaxial cable CL3P shielded, UL listed Plenum rated jacket

## WALL SENSOR

### easy-to-install bracket

Custom bracket allows quick and easy installation and proper angling for optimum room coverage



### power indicator

Green LED power indicator lets you know when unit is connected properly



## SPECIFICATIONS

Operating frequency: 2.3MHz & 2.8MHz  
 Operating range: 18.5m/60ft line-of-sight (typical)  
 Signal/Power interface: RCA-female jack  
 Number of IR LEDs: 2  
 Power indicator LED: Green  
 Dimensions (WxHxD): 7.9 x 5.1 x 3.0 cm/3.1 x 2.0 x 1.2 in  
 Weight: 82g/2.9oz  
 Mounting: wall mount bracket provided  
 Sensor wire: 22 AWG CL3P shielded with DR wire, UL listed Plenum rated jacket

## SENSOR ACCESSORIES



IR sensor cable, 15m/50ft

## COMPACT WALL SPEAKER



### full range

Wide, smooth frequency response (65Hz-20kHz @ -10dB) for faithful reproduction of voice and music

### versatile

Exceptional, natural sound quality for both speech and music

### drop & click bracket



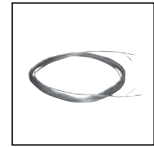
### easy mounting and completely adjustable

A rotating ball joint allows for customized speaker positioning

## SPECIFICATIONS

Speaker type: Bass reflex; 8.9cm/3.5in woofer; 2.5cm/1in soft-dome tweeter  
 Impedance: 8Ω nominal  
 Continuous power: 30W  
 Peak power: 80W  
 Frequency response: 65Hz to 20kHz -10dB  
 Dimensions (WxHxD): 2.7 x 22.2 x 14cm/ 5 x 8.75 x 5.5 in  
 Weight: 1.75kg/3.86lbs  
 Mounting: wall mounting brackets provided  
 Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated

## SPEAKER ACCESSORIES

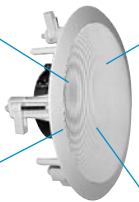


speaker wire  
 2 @ 14.6m/48ft  
 2 @ 18.3m/60ft

## DISTRIBUTED CEILING SPEAKER

### a seamless solution

Mounts flush with ceiling tiles for a neat, elegant installation



### great sound dispersion

Offers exceptionally even sound coverage

### full range

Wide, smooth frequency response (65Hz-20kHz @ -10dB) for faithful reproduction of voice and music

### sound stays in your room

UL Listed steel back enclosure prevents sound from traveling through plenum to other classrooms and ensures highest safety rating

## SPECIFICATIONS

Speaker type: coaxial: 6.5in woofer, 1in tweeter  
 Impedance: 8Ω nominal  
 Continuous power: 30W  
 Peak power: 45W  
 Frequency response: 60Hz to 20kHz  
 Dimensions (DIA x D): 21.7 x 7 cm/8.5 x 2.75 in  
 Weight: 1.1kg/2.5lbs  
 Mounting: UL listed metal tile bridge, UL listed steel back enclosure  
 Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated

## SPEAKER ACCESSORIES



speaker wire  
 2 @ 14.6m/48ft  
 2 @ 18.3m/60ft