

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
- 2 IR speakers
- Optional student pass-mic

specifications:

frontrow™ pro digital

infrared classroom amplification system



FRONTROW PRO DIGITAL – now with IR speakers – is 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 lessons



SPECIFICATIONS

Transmission type: Infrared

Receiving frequency: 2.3MHz & 2.8MHz

Frequency response: 50Hz to 20kHz

Signal-to-noise: >65dB (system)

TDH: <1% @ 1kHz into 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: 163m²/1225ft² (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

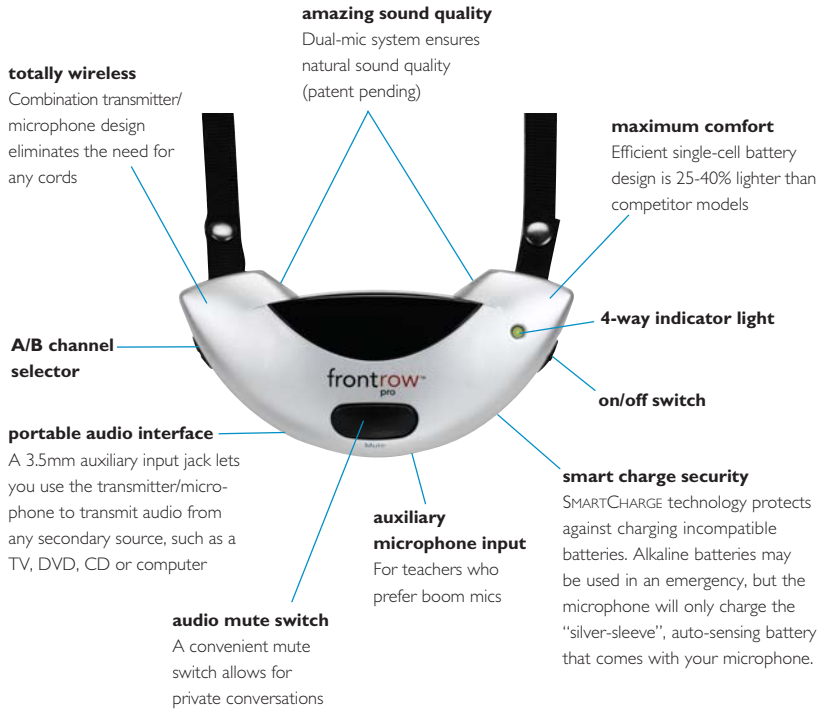


RCA/RCA Aux-in cord
RCA/3.5mm Aux-in cord



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 (wxhxd): 11 x 6 x 2.5 cm/4.5 x 2.5 x 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 x 2.25 x 2.25 in. (24 x 5.5 x 5.5 cm)
 Weight: 11 oz (312g)
 User controls: on/off

940H ACCESSORIES



SMARTCHARGE NiMH rechargeable battery



charger power supply

IR SPEAKER



- Install only two IR Speakers and two combo cables per classroom – instead of 4 separate speakers and 1-2 external sensors
- Full range sound and complete classroom audio coverage
- Comparable to four speaker coverage
- Extremely robust IR coverage



SPEAKER SPECIFICATIONS

Speaker type: Two 10cm/4in woofers; 2.5cm/1in tweeter
Impedance: 4Ω nominal
Continuous power: 20W
Peak power: 30W
Frequency response: 150Hz to 20kHz
Dimensions (w×h×d): 355×130×230mm/14×5×9in
Weight: 3.4kg / 7.5lbs
Mounting: Wall mounting brackets provided
Combo cable incorporates:
Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated
Sensor wire: 15.25m/50ft RG58/u coaxial cable CL3P shielded, UL listed Plenum rated jacket



SENSOR 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 Photodiodes: 3
Power indicator LED: Green
Reception area: 2500ft² (typical with receiver sensors)

SPEAKERS (REQUIRE SEPARATE SENSORS)

COMPACT WALL SPEAKER



- Full range for faithful reproduction of voice and music
- Easy mounting and completely adjustable



SPECIFICATIONS

Speaker type: Bass reflex; 10cm/4in woofer; 2.5cm/1in tweeter
Impedance: 8Ω nominal
Continuous power: 30W
Peak power: 80W
Frequency response: 65Hz to 20kHz
Dimensions (w×h×d): 2.7 × 22.2 × 14cm / 5 × 8.75 × 5.5 in
Weight: 1.75kg/3.86lbs
Mounting: wall mounting brackets provided
Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated

DISTRIBUTED CEILING SPEAKER



- Full range for faithful reproduction of voice and music
- Great sound coverage
- Separate UL Listed back enclosure prevents sound from traveling to other classrooms
- Mounts flush with ceiling for neat installation



SPECIFICATIONS

Speaker type: coaxial; 10cm/6.5in woofer; 2.5cm/1in tweeter
Impedance: 8Ω nominal
Continuous power: 30W
Peak power: 45W
Frequency response: 60Hz to 20kHz
Dimensions (DIA × D): 21.7 × 7 cm / 8.5 × 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

SENSORS (NOT NEEDED WITH IR SPEAKER)

CEILING SENSOR



- Easy-to-install bracket allows quick and easy installation
- LED power indicator lets you know when unit is connected properly
- 360 degree 'full-sweep' signal coverage helps prevent signal 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 Photodiodes: 6
Power indicator LED: Green
Reception area: 232m²/2500ft² (typical with receiver sensors)
Dimensions (DIA × H): 13.5 × 3.3 cm / 5.1 × 1.3 in
Weight: 224g/7.9oz (with bracket)
Mounting: Drop ceiling acoustic tile or sheetrock ceiling
Sensor wire: 15.25m/50ft RG58/u coaxial cable CL3P shielded, UL listed Plenum rated jacket

WALL SENSOR



- Easy-to-install bracket allows proper angling for optimum room coverage
- LED power indicator lets you know when unit is connected properly
- 2 per kit



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 Photodiodes: 2
Power indicator LED: Green
Dimensions (w×h×d): 7.9 × 5.1 × 3.0 cm / 3.1 × 2.0 × 1.2 in
Weight: 82g/2.9oz
Mounting: wall mount bracket provided
Sensor wire: Two 15.25m/50ft RG58/u coaxial cables CL3P shielded, UL listed Plenum rated jacket