

specifications:

frontrow™ pro digital

digital infrared soundfield system



FRONTROW PRO DIGITAL – now with IR speakers – is the most time-saving, energy-saving, hassle-free way to improve learning in every classroom.

DESCRIPTION

Infrared wireless sound field 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

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

KEY FEATURES

- Standby mode uses 73% less energy than comparable analog systems and allows "one-touch" operation.
- Powerful ADAPTO® digital platform optimises sound quality and power use.
- 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
- Lead-free construction

PENDANT MICROPHONE

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

TYPICAL PACKAGE

- Receiver
- Pendant microphone
- Four wall/ceiling speakers or two IR Speakers
- Wall/ceiling sensors
- Optional student pass-microphone

Phonic Ear® Technology for the sake of teaching



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. Phonic Ear's design and manufacturing practices keep lead, mercury, PBDE and other toxins out of its products — and out of the environment.



PC Werth

Advanced Sound Technologies



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940R RECEIVER

one-touch operation

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

two channels for more dynamic teaching

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

optimize speech clarity

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



talk without dropout

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

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

Colour-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: 2.3 MHz & 2.8 MHz

Frequency response: 50 Hz to 20 kHz

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

TDH: < 1% @ 1 kHz into 8Ω

Maximum audio output power: 2 x 10 W (8Ω), 2 x 20 W (4Ω)

Power supply: 19 VAC at 3.16 A

Size (wxdxh): 21.6 x 21.1 x 2.25 cm/8.5 x 8.3 x 1.75 in

Weight: 940 g/2.11 lbs

Operating range: 18.5 m/60 ft line-of-sight (typical)

Reception area: 163 m²/1225 ft² (typical)

User controls:

- Power
- Microphone A volume
- Microphone B volume
- Two auxiliary audio volume
- OPTIVOICE™

Inputs/outputs:

- Input power jack
- 1.3 mm microphone 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)

940TM TRANSMITTER/MICROPHONE

totally wireless

Combination transmitter/microphone design eliminates the need for any cords.

amazing sound quality

Dual-microphone system ensures natural sound quality (patent pending).

maximum comfort

Efficient single-cell battery design is 25-40% lighter than competitor models.

A/B channel selector

portable audio interface

A 3.5mm auxiliary input jack lets you use the transmitter/microphone to transmit audio from any secondary source, such as a TV, DVD, CD or computer.

audio mute switch

A convenient mute switch allows for private conversations.

auxiliary microphone input

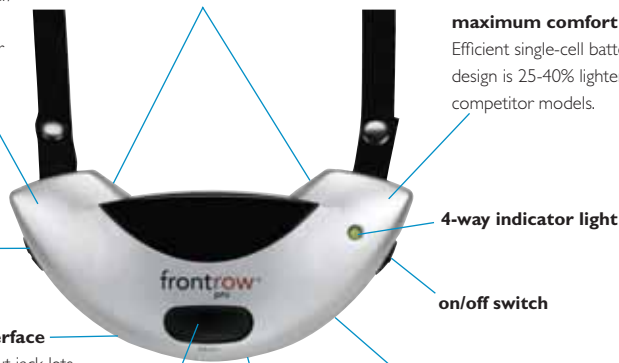
For teachers who prefer boom microphones.

4-way indicator light

on/off switch

smart charge security

SMARTCHARGE technology protects against charging incompatible batteries. Alkaline batteries may be used in an emergency, but the microphone will only charge the "silver-sleeve", auto-sensing battery that comes with your microphone.



SPECIFICATIONS

Transmission type: Infrared

Transmitting frequency: 2.3 MHz & 2.8 MHz (switchable)

Microphones: Dual uni-directional cardioid

Battery life: Minimum 8 hours

Battery type: Single AA, 2500 mAh rechargeable NiMH

Operating range: 18.5 m/60 ft line-of-sight (typical)

Size (wxhxd): 11 x 6 x 2.5 cm/4.5 x 2.5 x 0.9 in

Weight: 85 g/3.0 oz (with battery)

User controls:

- On/off
- Mute
- Channel A/B

Inputs/outputs:

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

940H TRANSMITTER

durable and easy to use

Handheld microphone is ideal for passing around to students for reading aloud, giving reports or even team teaching. Small size suits small hands

smart charge security

SMARTCHARGE technology protects against charging incompatible batteries. Alkaline batteries may be used in an emergency, but the microphone will only charge the "silver-sleeve", auto-sensing battery that comes with your microphone.



SPECIFICATIONS

Microphone
 Transmission type: Infrared
 Transmitting frequencies: 2.3 MHz & 2.8 MHz
 Frequency response: 50 Hz to 16 kHz
 Operating range: 12 m (40 ft), line-of-sight (typical)
 Batteries: 1 NiMH AA 2300mAh rechargeable battery
 Size (WxDxH): 14.6x 2.8 x 3.5 cm (5.7 x 1.1 x 1.4 in.)
 Weight: 74 g (2.6 oz) with battery
 User controls: On/off; Mic gain.; Channel A/B
 Inputs: 3.5mm aux (stereo summing); 1.3mm DC jack
 Battery life: 5 hours minimum

Drop-In Charger

Size (WxDxH): 14.1x 14.1x 6.83 cm (5.6 x 5.6 x 2.7 in.)
 Weight: 130.4 g (4.6 oz)
 Inputs: 1.3mm DC jack

SPEAKERS

COMPACT WALL SPEAKER



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



SPECIFICATIONS

Speaker type: Bass reflex; 4" woofer; 1" tweeter
 Impedance: 8Ω nominal
 Continuous power: 30 W
 Peak power: 80 W
 Frequency response: 65 Hz to 20 kHz (-10 dB)
 Dimensions (wxhxd): 17 x 22.2 x 14 cm / 6.7 x 8.75 x 5.5 in
 Weight: 1.75 kg/3.86 lbs
 Mounting: Wall mounting brackets provided
 Speaker wire: UL listed CL3P Plenum-rated
 Color: Available in white and black

CEILING SPEAKER



- Full range for faithful reproduction of speech and music.
- Wide dispersion ensures even coverage
- Mounts flush with ceiling for neat installation.
- Paintable grille.



SPECIFICATIONS

Speaker type: 4" full range
 Impedance: 8Ω nominal
 Continuous power: 18W
 Sensitivity: 88dB SPL (1W, 1m)
 Frequency response: 65 Hz to 18 kHz (-10 dB)
 Dimensions (dia x d): 15.5 x 11 cm / 6.1 x 4.4 in
 Sound dispersion: 160 degrees conical (1-4kHz av).
 Weight: 1kg/2.2 lbs

IR WALL SPEAKER



- Special speaker for non-standard installations



SPEAKER SPECIFICATIONS

Speaker type: Two 4" woofers;
 1" tweeter
 Impedance: 4Ω nominal
 Continuous power: 20 W
 Peak power: 30 W
 Frequency response: 150 Hz to 20 kHz
 Dimensions (wxhxd): 35.5 x 13 x 23 cm/
 14 x 5 x 9 in
 Weight: 3.4 kg / 7.5 lbs
 Mounting: Wall mounting brackets provided

Combo cable incorporates:

Speaker wire: 18 AWG 2 conductor UL listed CL3P Plenum-rated

Sensor wire: 15.25 m/50 ft RG58/u coaxial cable CL3P shielded, UL listed Plenum rated jacket



SENSOR SPECIFICATIONS

Operating frequency: 2.3 MHz & 2.8 MHz
 Operating range: 18.5 m/60 ft line-of-sight (typical)
 Signal/Power interface: RCA female jack
 Number of IR Photodiodes: 3
 Power indicator LED: Green
 Reception area: 230 m²/2500 ft² (typical with receiver sensors)

INFRARED SENSORS

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: 2.3 MHz & 2.8 MHz
 Operating range: 18.5 m/60 ft line-of-sight (typical)
 Signal/Power interface: RCA-female jack, 8" lead
 Number of IR Photodiodes: 6
 Power indicator LED: Green
 Reception area: 232 m²/2500 ft² (typical with receiver sensors)
 Dimensions (DIA x H): 13.5 x 3.3 cm / 5.1 x 1.3 in
 Weight: 224 g/7.9 oz (with bracket)
 Mounting: Drop ceiling acoustic tile or sheetrock ceiling
 Sensor wire: 15.25 m/50 ft RG58/u coaxial cable CL3P shielded, UL listed Plenum rated jacket

PE 940DS

WALL SENSOR



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



SPECIFICATIONS

Operating frequency: 2.3 MHz & 2.8 MHz
 Operating range: 18.5 m/60 ft line-of-sight (typical)
 Signal/Power interface: RCA-female jack
 Number of IR Photodiodes: 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: 82 g/2.9 oz
 Mounting: Wall mount bracket provided
 Sensor wire: 15.25 m/50 ft RG58/u coaxial cables CL3P shielded, UL listed Plenum rated jacket

PE 940WS

HAND-HELD MICROPHONE ACCESSORIES



SMARTCHARGE NiMH rechargeable battery
BG R6T



charger power supply
PE 142

PENDANT MICROPHONE ACCESSORIES



SMARTCHARGE NiMH rechargeable battery
BG R6T

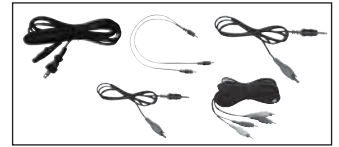


boom mic
PE 655

RECEIVER AND RECEIVER ACCESSORIES



receiver power supply
PHE/921

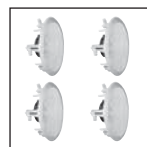


Accessory pack
PE AUDIOKIT

SPEAKERS & SPEAKER ACCESSORIES



1 pcs. compact wall speaker, white incl. bracket
PE 302N



ceiling speaker incl. speaker covers, set of 4
PE 302C



2 IR speakers, 2 tilt-mount brackets, 4 thumbscrews, 4 wall-mount plates, set screws and 2 combo cables
PE 940IRS

IR SENSORS & IR SENSOR ACCESSORIES



1 pcs. ceiling sensor incl. bracket and sensor cable
PE 940DS



wall sensors 2 pcs. incl. brackets and sensor cables
PE 940WS



IR sensor cable, 15m/50ft
PE 847



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