

specifications:

# frontrow<sup>TM</sup> pro

## infrared active learning system



### description

Wireless infrared active learning system designed to clarify the teacher's voice for all students.

### application & benefits

For use in general and special education classrooms. Fosters a successful learning environment; increases student attentiveness, participation, comprehension and test scores; significantly reduces behaviour referrals; helps non-native students and students with hearing impairments; reduces teacher absenteeism due to vocal fatigue.

### key features

Very easy to operate; lightweight wireless pendant microphone offers superior comfort and sound quality; teacher's mic mute button; team-teaching or student pass-around mic ready; integrates stereo sound seamlessly from other classroom audiovisual equipment; includes OPTIVOICE control for advanced speech clarity; fail-safe battery charging.

### transmitter options

- Wireless pendant transmitter with two built-in mics
- Student handheld mic
- Bodyworn transmitter with separate microphone

### receiver

Base-station; 2-channels

### speakers

Compact wall; distributed ceiling

### frequencies

2.3 and 2.8MHz

### installation

Mounting and wiring of base-station receiver and speakers, external ceiling and/or wall sensors (if needed)

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))))))Phonic Ear<sup>®</sup>

## base station receiver: 930R

### at-a-glance status indicators

Green lights tell you the system is on and receiving the signal; red means no signal is being received

### auxiliary volume

Controls the level of TV/DVD, CD, computer and any other secondary sound sources you add



### talk without dropout

Three built-in sensors with advanced optics ensure consistent signal pick-up with 130° horizontal reception angle

### two channels for student participation and/or team-teaching

Encourage student participation with a pass-around mic; also accommodates two teachers conducting a class at the same time

### OptiVOICE for maximum speech clarity

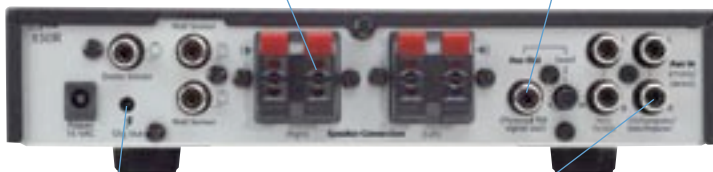
OptiVOICE is specially designed to emphasize delicate speech sounds, so kids comprehend even more

### simple speaker hook-up

Color-coded stereo push terminals make speaker connection quick and easy; bridgeable for 2-speaker operation for doubling speaker output power

### auxiliary output

Connect a SOLARIS, EASYLISTENER, LEXIS, or other brand transmitter to broadcast speech directly to students wearing personal FM receivers



### easy recharging

Up to two transmitters can be charged directly from the receiver without taking up additional outlet space

### audiovisual integration for enhanced active learning

Integrate stereo sound from two other audiovisual classroom tools (music, TV, computer). Add more inputs with our handy AuxBoxes.

### highband EQ

Assists installers who need to finely adjust the system to room characteristics

## specifications

Receiving frequency: 2.3MHz & 2.8MHz

Modulation: FM wide-band

IR frequency response: 50Hz to 10kHz (system)

Speakers: 8 ohm

Acoustic output: 90dBa ± 3dB @ 1m into 8 Ohm

Auxiliary input level: 200 mVrms

Auxiliary input impedance: 15k Ohm, Nominal

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

THD: <1% @ 1kHz into 8 Ohm

Nominal deviation: ± 10 kHz

Maximum deviation: ± 25 kHz

Squelch: RF carrier/tone control

Squelch level: 19 dBuV

Power supply: 15VAC at 2.5A (AT0783)

User controls: Power on; Channel A volume; Channel B volume; 2 auxiliary volumes; OptiVOICE™; Hi-band EQ (left side)

Displays: Power on/off LED; Ch A & Ch B signal LEDs

Color: Black case, silver front face

Size (wxdxh): 21.5 x 23.5 x 2.25cm/8.5 x 8.3 x 1.75in

Weight: 1.3kg/3lbs

Case: Steel, baked enamel finish, solid aluminum front face

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

Reception area: 232m<sup>2</sup>/2500ft<sup>2</sup> (typical, with ceiling sensor)

Reception angles: 130° horizontally; 60° vertically (1/2 power)

Inputs/outputs: 2 RCA stereo (L/R) aux in jacks; RCA aux out jack; 4 quick-connect speaker terminals; 3 RCA jacks for external sensor connection; 2.5mm input power jack; 1.3mm output charge jack

## 930R accessories



AT0784 receiver wall mount



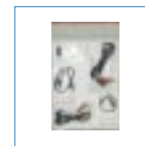
AT0783 wall transformer



520-7347-103 ceiling sensor



AT0848 wall sensor



595-7348-101 accessory cable kit



AT0847 IR sensor cable, 15m/50ft

## transmitter: 930TM

### amazing sound quality

Patented dual-mic system ensures natural sound quality

### quick-release connection

Snap-in-place connection makes it easy to put on and take off

### totally wireless

Combination transmitter/microphone design eliminates the need for any cords - for total freedom and maximum comfort

### world's lightest transmitter/mic

High-capacity, efficient single-cell battery design is 25-40% lighter than competitor models; ergonomically designed for optimum all-day comfort

### channel selector for team-teaching

### easy to interface

A 3.5mm stereo summing auxiliary input jack lets you transmit audio from any secondary source, such as a TV, DVD, CD, computer or data projector

### auxiliary microphone input

For teachers who prefer boom mics

### audio mute switch

A convenient mute switch allows for private conversations

### smart charge security

AA battery charges inside the transmitter. If teachers forget to charge, they can use an alkaline cell without worry—our smart charge technology can tell which batteries are safe to charge

### on/off switch

### 4-way indicator light

- Green when power is on
- Flashing green when mute switch is on
- Flashing red when battery is low
- Red when charging



## specifications

Transmitting frequency: 2.3MHz & 2.8MHz (switchable)

Modulation: FM wide-band

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

Audio distortion: 0.3% ( $\pm$  10kHz deviation @ 1kHz)

Transmission angles: 160° horizontally; 40° vertically (1/2 power)

Microphones: dual uni-directional hypercardioid (directivity index 6.0@500Hz)

User controls: On/off/mute/channel

Inputs/outputs: 2.5mm mic input; 3.5mm aux input; 1.3mm DC charge jack

Battery life: minimum 8 hours (single AA, 2500mAh rechargeable NiMH)

Size (wxhxd): 11 x 5.3 x 2.5 cm/4.5 x 2.1 x 0.9 in

Weight: 85g/3.0oz (with battery)

Case: ABS plastic

## 930TM accessories



374-30-400-00  
NiMH (Nickel Metal Hydride) battery



384-01-210-08  
aux-in cable



AT0655  
boom mic

## transmitter: 930HT

### hidden channel selector

Prevents students from accidentally changing channels while passing the mic around

### on/off switch

### the perfect student pass mic

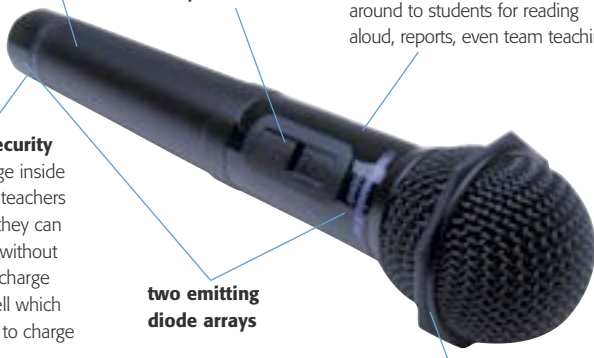
Handheld microphone is sturdy and easy to use—ideal for passing around to students for reading aloud, reports, even team teaching

### smart charge security

AA batteries charge inside the transmitter. If teachers forget to charge, they can use alkaline cells without worry—our smart charge technology can tell which batteries are safe to charge

### two emitting diode arrays

### anti-rolling guard band



## specifications

Transmitting frequency: 2.3MHz & 2.8MHz (switchable)

Modulation: FM wide-band

Operating range: 12m/40ft line-of-sight (typical)

Transmission angle: 360° radial

Audio distortion: <1.0% ( $\pm$  15kHz deviation @ 1kHz)

Microphone type: uni-directional dynamic

User controls: on/off/channel

Battery life: minimum 7 hours (dual AA, 2500mAh rechargeable NiMH)

Size (R x DIA): 255 x 58 mm/10.04 x 2.28 in

Weight: 258g/9.1oz with battery

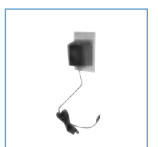
## 930HT accessories



374-30-400-00  
NiMH (Nickel Metal Hydride) batteries



930HTC  
hand-held transmitter charging stand



AT0792  
930HTC charger transformer

## transmitter: 930T



## specifications

Transmitting frequency: 2.3MHz & 2.8MHz (switchable)

Modulation: FM wide-band

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

Transmission angles: 140° horizontally; 40° vertically (1/2 power)

User controls: On/off/mute/channel

Inputs/outputs: 6 pin DIN mic input; 1.3mm DC charge jack

Battery life: minimum 8 hour (dual AA, 1600mAh rechargeable NiMH)

Size (wxhxd): 5.8 x 9.4 x 3.0 cm/2.3 x 3.7 x 1.2 in

Weight: 113g/4.0oz (with battery)

Case: ABS plastic

## 930T accessories



AT0807  
NiMH (Nickel Metal Hydride) batteries



AT0712  
black belt



AT0795-L  
lapel mic

## optional auxbox: AT0801 (for use with 930R receiver)

### add another 4 media sources to your system

Connect up to four extra sound sources for content-rich lessons and presentations



**lightweight, compact design**

### remote control

Comes with a convenient remote control to allow fast switching between input sources



## specifications

Inputs: 4 RCA video; 4 RCA audio right; 4 RCA audio left; 4 S-video

Outputs: RCA audio right; RCA audio left; RCA video; S-video

Power input: 9VDC, 200mA wall adaptor

Size (wxhxh): 20 x 5.1 x 13.5 cm/7.9 x 2.0 x 5.3 in

Weight: 346g/12.2oz

## compact wall speaker: 470-2856-119

### more power handling

80 watts of peak power

### versatile

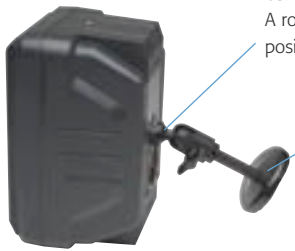
Exceptional, natural sound quality for both speech and music



### full range

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

### drop & click bracket



### completely adjustable

A rotating ball joint allows for customized speaker positioning — no tools needed!

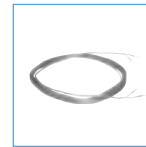
### easy mounting

1. Attach mounting plate to wall
2. Screw ball joint on to speaker
3. Drop and click ball joint into plate
4. Position and tighten

## 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: AT0581 18.3m/60ft  
Sensitivity: 88dB, 1W @ 1m

## speaker accessories



AT0581  
speaker cable  
18.3m/60ft

## distributed ceiling speaker: AT0806

### great sound dispersion

Offers exceptionally even sound coverage

### a seamless solution

Mounts flush with ceiling tiles for a neat, elegant installation

### full range

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



### sound stays in your room

Enclosed baffle prevents sound from traveling through plenum to other classrooms

## specifications

Speaker type: coaxial: 6in woofer, .5in tweeter  
Impedance: 8Ω nominal  
Sensitivity: 90dB, 1W @ 1m  
Continuous power: 35W  
Peak power: 70W  
Frequency response: 65Hz to 20kHz  
Dimensions (DIA x D): 203 x 5.7 cm/9 x 2.25 in  
Weight: 1.1kg/2.4lbs  
Mounting: acoustic ceiling metal tile bridge (470-7347-106)  
Speaker wire: AT0581 18.3m/60ft  
Minimum ceiling height: 3m/10ft

## speaker accessories



AT0581  
speaker cable  
18.3m/60ft

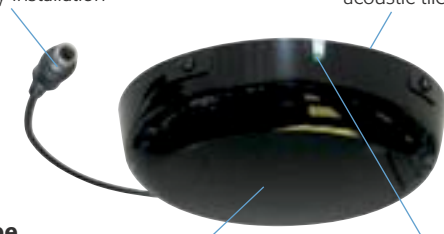
## ceiling sensor: 520-7347-103

### multiple mounting options

Multi-directional cord orientation for mounting on sheetrock or other flat surface; provides sleek streamlined solution for any installation

### 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

### 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, 8" lead  
Number of IR LEDs: 9 (8 equal radial spacing; 1 center)  
Power indicator LED: Green  
Reception area: 232m<sup>2</sup>/2500ft<sup>2</sup> (typical with receiver sensors)  
Reception angle: 360° full semi-spherical (half dome) coverage  
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: AT0847, 50ft long (RCA male-to-male)

## wall sensor: AT0848

### easy-to-install bracket

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



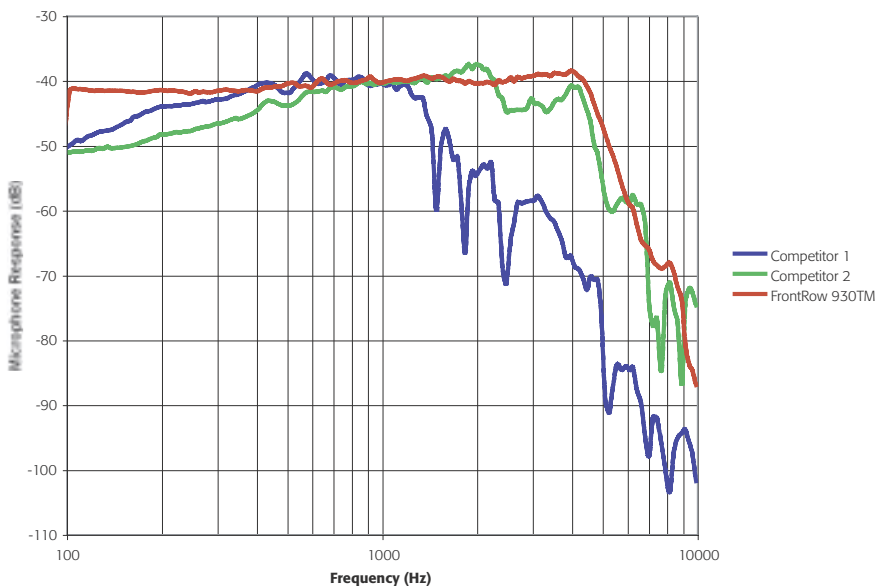
### power indicator

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  
Reception angle: 70° horizontally/60° vertically (1/2 power)  
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: AT0847, 50ft long (RCA male-to-male)

## transmitter audio frequency response comparison



The FrontRow Pro 930TM provides a more faithful reproduction of the teacher's voice than competing products – particularly in high frequencies that are critical to speech intelligibility. The product also offers accurate response in low frequencies, resulting in warmer, more natural voice quality.