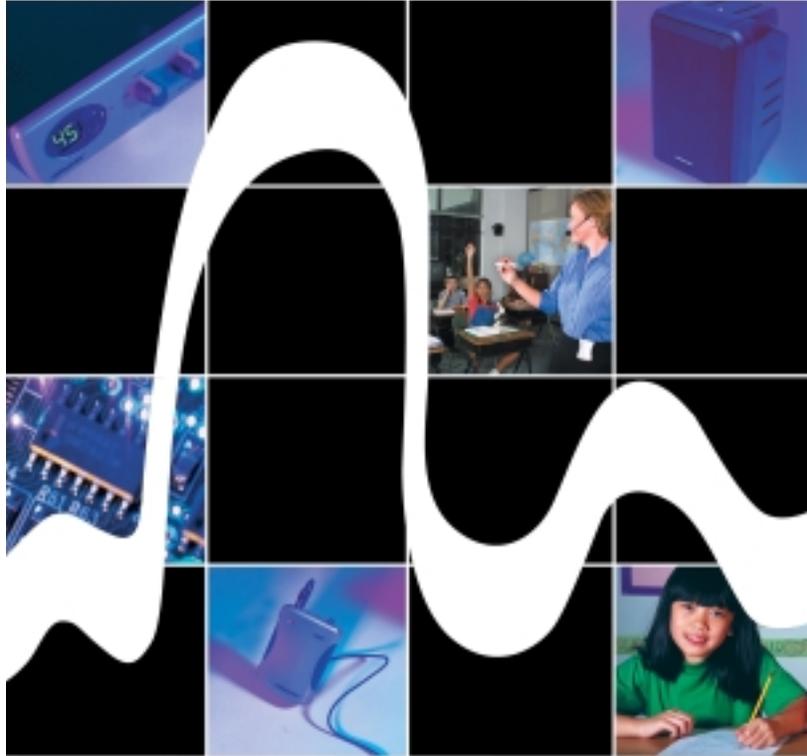


Phonic Ear®

EasyListener2™



The advanced speech clarity solution for teaching



what is sound field?

Sound field (also called classroom amplification) is a widely accepted tool for academic success. By slightly amplifying the teacher's voice and dispersing it evenly throughout the classroom, sound field helps ensure that every child, regardless of seating location, consistently hears and understands what the teacher is saying.

sound field is:

- the best way to overcome the negative effects that noise, distance, and echo have on student comprehension
- a proven way to improve literacy, attentiveness, and teacher vocal health
- an effective tool for keeping kids focused and "on-task"
- a natural, cost-effective way to address AD/HD or auditory processing disorders, and increase phonetic recognition for ESOL students
- supported by over 25 years of research and more than 50 studies proving that sound field helps **all** students succeed
- easy to use—and easy to see the results!



With OptiVoice™ teachers can easily adapt the sound of their voice for maximum clarity in a variety of listening environments

EasyListener2™

Optimized for Sound Quality, Speech Clarity, and Simplicity



Positioning speakers for maximum directionality is a snap with our exclusive "drop-n-click" ball joint speaker bracket.

Superior Sound Quality

Get their attention and keep it!



Listening and learning is so much easier for students when their teacher's voice is clear and natural-sounding. The new EASYLISTENER 2 provides that sound quality with an extremely low-noise amplifier, high-performance speakers that support the receiver's wide audio bandwidth, and rock-solid interference rejection. The result is full, and more faithful voice reproduction that students will find easy to listen to all day, without straining.

"I love the design, flexibility, and quality of EasyListener 2. With OptiVoice, my voice was consistently clear, natural, and appropriately audible to the children."

*Kathleen Eckert, Teacher
Marguerite Hahn School
Rohnert Park, CA*

Unique Speech Clarity Optimizer

OptiVoice™ delivers better speech understanding in class

 It takes more than great sound to create the best listening environment—speech *intelligibility* is just as important. Even in moderate noise, an emphasis on higher-frequency speech sounds can greatly improve the listener's ability to understand. That's where our exclusive OptiVoice™ feature comes in. Just one switch does the work of a sophisticated 12-band equalizer, allowing teachers to instantly optimize EASYLISTENER 2 for the best possible intelligibility. Use the **low** position in low-noise situations or for the most natural voice reproduction; **medium** in moderate noise or to minimize reverberant tones; and the **high** position to help cut through air conditioning or traffic noise, ensuring top comprehension during critical tasks such as test-taking or hearing-impaired instruction.

Simplicity

EasyListener 2 works hard so you don't have to

 **Easy for teachers:** A carefree one-plug fail-safe charging system prevents accidental recharging of alkaline batteries. OptiVoice helps students better understand, even in the presence of noise.

 **Easy for administrators:** Easier than ever to help improve student test scores and behavior while reducing teacher absenteeism from vocal fatigue.

 **Easy for installers:** The installation ease of an FM system with reduced channel management issues. Strong adjacent channel rejection ensures that signals won't get crossed—even when using 19 or more channels! "Drop-n-click" speaker brackets offer maximum mounting and positioning ease.

 **Easy for audiologists:** Audiologists will love EASYLISTENER 2 for its sound quality and compatibility with popular 216MHz personal FM products.

Kids gain confidence, learn important public speaking skills, and have fun using the 211 handheld pass-around microphone system (sold separately)



Impeccable Service

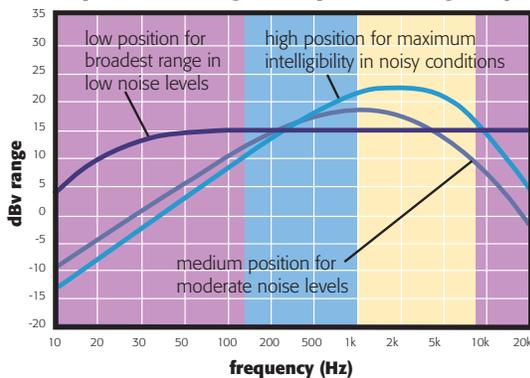
Rely on a worldwide team of professionals

 Thoroughly tested for durability at the Oticon engineering facility in Copenhagen, Denmark, EASYLISTENER 2 is built for years of flawless operation. Combined with Phonic Ear's renowned customer

support and over 40 years' experience working with schools, you can rest assured: For excellence in teaching tools, EASYLISTENER 2 is the easy choice! **Try the new EasyListener 2 with our free 45-day evaluation program!**



OptiVoice Settings and Speech Intelligibility



- Lower frequencies provide warmth and personality but can mask the higher frequencies critical to intelligibility
- Critical speech intelligibility range (primarily consonants)
- Contains little useful speech information



features at a glance:

- full, natural, clear sound quality
- three-band equalizer
- exclusive OptiVoice™ speech clarity
- one-plug, fail-safe charging
- 19 216MHz channels
- simple, clean user controls
- second channel, team-teaching adaptable
- aux-in, aux-out capabilities
- high-performance speakers
- attractive compact design
- transmitter mute
- strong interference rejection

EasyListener2™

base station receiver: 230R



one-plug charging

The transmitter charges directly from the receiver — only one power source needed

outstanding performance

Numerous audio refinements, including improved signal-to-noise ratio, and broader audio bandwidth, make this system a top performer

channel freedom

19 user-selectable 216MHz channels — just scroll to match the frequency of your transmitter. Works with your 330T, 300TS, and other 216MHz products

OptiVoice™ clarity

Don't just turn up the volume — shape your voice for improved speech clarity under low, medium, and high noise conditions

interference resistant

Improved filtering for strong adjacent channel rejection; higher front-end dynamic range for better intermodulation rejection



"It was so easy to use and really needed little human intervention. I felt I could turn it on and go about my day. I spent very little time troubleshooting or fooling with the switches."

*Freya Sharp, Teacher
McNear Elementary School
Petaluma, CA*

aux-in options

Plug in another FM receiver for team-teaching, or broadcast CD, VCR, TV, computer, or other audio

optimize the power

Ensures the best power distribution for optimal system performance

easier school-wide installations

Squelch lets you adjust the receiver sensitivity so you can install more systems closer together



total control

Recessed 3-band EQ lets sound professionals fine-tune the sound to fit the room

compatibility

Universal aux-out port with simple level adjustment lets you plug in any personal FM transmitter for rebroadcasting to hearing impaired students on other channels

EasyListener2™

transmitter: 330T

"The EasyListener 2 transmitter hardly weighs anything, fits in my pocket, and I like the handy mute button on top."

*Robert Gindhart, Teacher
Marguerite Hahn School
Rohnert Park, CA*



the right fit

Four different mic designs are available to suit your style and comfort preferences (see back page)

long-lasting power

AAA rechargeable NiMH batteries provide more than 12 hours of life between charges

no worries

Fail-safe system prevents accidental charge of alkaline batteries while offering the convenience and savings of in-unit recharging

smart 3-way light

Red indicator light glows to indicate power on, blinks when battery is low, and brightens to indicate the batteries are charging

ergonomic design

Practical and attractive with easy-to-grip sides and a tenacious clip that won't slip

input options

Auxiliary input jack lets you transmit audio from a second source, such as a TV, VCR, DVD or computer

quiet time

A convenient mute switch allows for private conversations



230R specifications

receiving frequency	216MHz, synthesized (U.S./Canada)
frequency stability	±500Hz 0° to 50° C
modulation	FM narrow-band
AF frequency response	20Hz - 20kHz, -3dB (Aux in) 70Hz - 10kHz, -3dB (FM in)
power output	14W into 8Ω/28W into 4Ω
auxiliary input level	300mV _{rms} (-10dBV) 0.25in stereo
auxiliary output	0-1V _{rms} adjustable via rear panel, RCA
aux input impedance	47kΩ
FM signal-to-noise	>63dB, A weighted
THD	< 3% @ 1kHz maximum output
nominal deviation	±5kHz
maximum deviation	±10kHz
squelch	RSSI-type
squelch level	adjustable via rear panel
power supply	20VDC @ 3A
charge port	5VDC, 200mA
user controls (front)	on/off, FM volume, Aux volume, OptiVoice, channel up/down
installer controls	3-band equalizer, squelch, speaker configuration selector
displays	2 digit channel LED display and LED for "FM signal"
dimensions (WXHXD)	21.9 x 5.4 x 16.2 cm/ 8.6 x 2.1 x 6.4 in
weight	1.11kg/2.45lb
case	steel, powder coat finish
available channels	41-49, 51-60

330T specifications

transmitting frequency	216MHz, crystal controlled (U.S./Canada)
modulation	FM narrow-band
operating range	up to 50m/160ft
user controls	off/on push button mute switch
inputs/outputs	3.5mm auxiliary input jack 2.5mm microphone input jack 1.3mm charge jack
battery life	15Hr (AAA alkaline) 12Hr (AAA NiMH)
dimensions (WXHXD)	5.9 x 8.2 x 2.0 cm/ 2.3 x 3.3 x 0.8 in
weight	74.8g/2.64oz (with batteries)
case	ABS plastic, painted
battery/power/charge LED	on: (dim) power on flashing: low battery-1 hour life remaining on (bright): charging

four compact wall speakers



more power handling

80 watts of peak power – twice as much as our original mini speaker!

full range

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

easy connections

Spring-loaded quick-connect inputs

versatile

Exceptional, natural sound quality for both speech and music

"I was impressed with the clarity and professional, stereo quality of the new EasyListener 2 speakers— I even listen to music through it after school while grading papers!"

*Steve Bates, Teacher
Marguerite Hahn School
Rohnert Park, CA*



drop-n-click bracket

completely adjustable

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

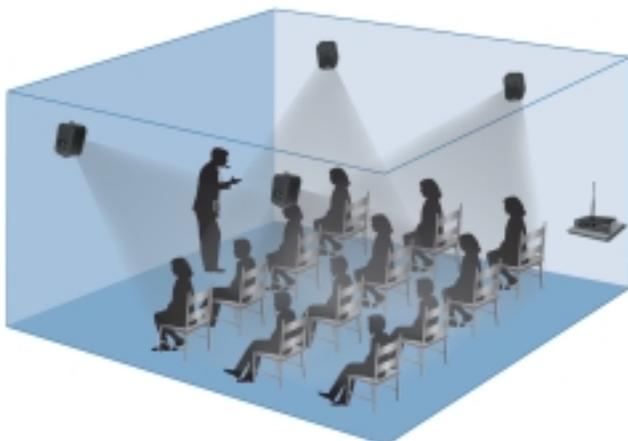


easy mounting

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

For optimal room sound coverage use four compact or four distributed ceiling speakers

example of speaker placement



Based on your classroom acoustics and seating arrangement, speaker placement will vary. Download our **sound field wizard** software from our web site at www.phonicear.com for help determining the best arrangement for your room.

compact speaker: 470-2856-119

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)	12.7 x 22.2 x 14 cm/ 5 x 8.75 x 5.5 in
weight	1.75kg/3.86lbs
mounting	wall mounting brackets provided (tabletop/floor stands also available)
speaker wire	AT0581 7.3m/24ft, 14.6m/48ft, and 18.3m/60ft lengths available
sensitivity	88dB, 1W @ 1m

four distributed ceiling speakers

great sound dispersion

Offers the same even sound dispersion as our compact wall speaker

discreet

The speaker that's meant to be heard and not seen – mounts flush with ceiling tiles for a clean look

a permanent solution

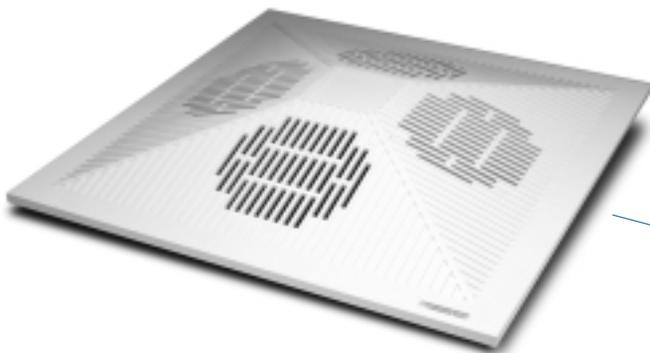
Install these speakers and forget about them! The perfect solution for a permanent installation

sound stays in your room

Enclosed baffle prevents sound from traveling through plenum to other classrooms



one cluster ceiling speaker



easy to install

Simply replace a standard 2'x2' ceiling tile with this single cluster which houses four individual speakers

AT0664 cluster ceiling speaker

specifications

speaker type	4 full-range 20cm/8in speakers
impedance	8Ω nominal
sensitivity	96dB, 1W @ 1m
continuous power	40W
frequency response	30Hz to 15kHz
dimensions (WxHxD)	16.5 x 14 cm/ 6.5 x 5.5 in
weight	4.53kg/10lbs
mounting	replaces 2ft x2ft acoustic ceiling tile; includes safety wire
speaker wire	AT0581 7.3m/24ft, 14.6m/48ft, and 18.3m/60ft lengths available
min ceiling height	3.7m/12ft
enclosure	fire and smoke emission rated



AT0806 distributed ceiling speaker

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 (DIAxD)	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 7.3m/24ft, 14.6m/48ft, and 18.3m/60ft lengths available
min ceiling height	3m/10ft

EasyListener2™ system package



230R receiver
330T transmitter



Your choice of microphone –
see below for style options



Three different speaker
packages from which to choose
(470-2865-119 compact
speaker shown here)



841-6440-101
accessory/transmitter case



AT0831
230R receiver antenna



040-7402-105
power supply/charger & cord
230R receiver



310-2544-1342
aux-in adaptor plug
(dual RCA-to-1/4")
for plugging in external
audio sources



310-2544-1341
aux-out adaptor plug
(3.5mm(F)-to-2.5mm(M))



AT0712
elastic black transmitter
waist belt



374-30-310-09
rechargeable NiMH
AAA batteries



300-6497-105
charging cord,
receiver-to-transmitter
1.3mm(M)-to-1.3mm (m)



AT0805
aux-out adaptor cord,
230R receiver
(RCA-to-3.5mm)

additional system accessories

transmitter accessories



AT0529A
antenna (for use with
auxiliary input only)



AT0749
330T wall charger



AT0512 - BK
lavalier cord
(for neck-worn transmitters)

aux in adaptor cords



AT0702-25
aux in adaptor cord
(dual RCA - dual RCA)
230R to external audio:
TV, VCR, DVD, etc.



384-01-210-08
aux in adaptor cord
(3.5mm - 3.5mm)
330T to external audio: TV,
VCR, DVD, computer, etc.

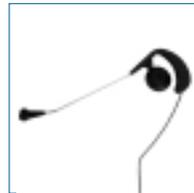


300-6332-107
aux in adaptor cord
(3.5mm - dual RCA)
330T to external audio,
or team teaching

microphone styles and compatibility rating



AT0655
behind-the-neck
boom microphone
rating: ★★★★★



AT0814
earhook microphone
rating: ★★★★★



AT0816
collar microphone with mute
rating: ★★



AT0291-L
lapel microphone
with lavalier cord
rating: ★★

receiver options



AT0801
aux-box (adds four addi-
tional A/V inputs)



211 System
wireless microphone system
for team-teaching and student
pass-around use

★★★★ = most compatible ★ = least compatible

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