

specifications:

frontrow[™] tempo

wireless FM active learning system

description

Wireless FM 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

- Full, natural, clear sound quality
- Exclusive OptiVoice[™] speech clarity
- Multiple channels
- Second channel, team-teaching adaptable
- High-performance speakers
- Transmitter mute
- Three-band equalizer
- One-plug, fail-safe charging
- Simple, clean user controls
- Aux-in and aux-out capabilities
- Attractive compact design
- Strong interference rejection

transmitter options

- Student hand-held transmitter
- Teacher bodyworn transmitter with separate microphone

receiver

Base-station; multi channel

speakers

- Compact wall
- Distributed ceiling

frequencies

169 to 176MHz

installation

Mounting and wiring of base station receiver and speakers



international +45 3917 7101 • u.s.a. 800.227.0735, then press 5 • canada 800.263.8700))))PhonicEar[®]

base station receiver: 230R



specifications

Receiving frequency:	169-176MHz, synthesized (International)
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) 6.3mm/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 20 cm/ 8.6 x 2.1 x 6.4 in
Weight:	1.11kg/2.45lb
Case:	steel, powder coat finish



channel freedom

Just scroll to match the frequency of your receiver. Works with your 230R, 300R, 571R, 572R, 575R and other 173MHz products

smart 4-way light

Green indicator light glows for power on, blinks when mute is on, flashes red for low battery, and brightens to red to indicate the batteries are charging

ergonomic design

Sleek yet sturdy with easy-to-grip sides and a tenacious clip that won't slip

long-lasting power

AAA rechargeable NiMH batteries provide up to 9 hours of life between charges



multiple channels

For less interference so teacher and student get uninterrupted communication. Conveniently allows teachers to set different classrooms in close proximity to different channels on one transmitter.

specifications

Transmitting frequency:	169-176MHz, synthesized (International)
Modulation:	FM narrow-band
Operating range:	up to 50m/160ft
User controls:	on/off push button mute switch channel up/down
Inputs/outputs:	3.5mm auxiliary input jack 2.5mm microphone input jack 1.3mm charge jack
Battery life:	12Hr (AAA alkaline)/ 9Hr (AAA NiMH, 750mA-h Cells)
Dimensions (WXHxD):	5.9 x 8.2 x 2.0 cm/ 2.3 x 3.3 x 0.8 in
Weight:	79.3g/2.8oz (with batteries)
Case:	ABS plastic, painted
Battery/power/charge LED/mute:	on: green continuous mute: green flashing low batt: red flashing - 1/2 hour to 1 hour life remaining charging: red continuous

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



no worries

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



the right fit

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

compact wall speaker option (for optimal room sound coverage use four compact wall speakers)

easy connections

Spring-loaded quick-connect inputs



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

versatile

Exceptional, natural sound quality for both speech and music

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 (w x h x d):	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

completely adjustable

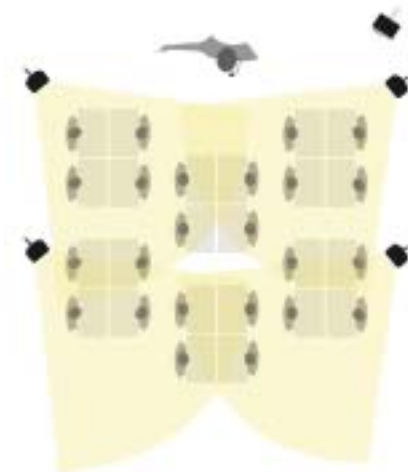
A rotating ball joint allows for customized speaker positioning – no tools needed!



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

example of speaker placement



Based on your classroom acoustics and seating arrangement, speaker placement will vary. Download our [sound field wizard](http://www.gofrontrow.com) software from our website at www.gofrontrow.com for help determining the best arrangement for your room.

distributed ceiling speakers option

great sound dispersion

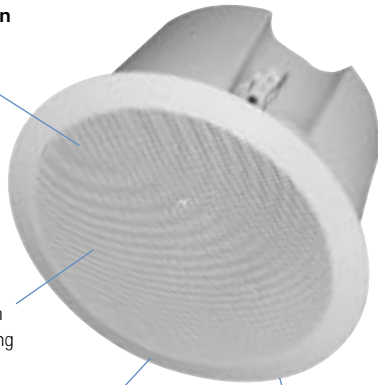
Offers the same even sound dispersion as our compact wall speaker

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

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

173MHz channels & corresponding frequencies by country

United Kingdom

13	173.3500
15	173.4000
17	173.4500
21	173.5000
24	173.5500
25	173.6000
27	173.6500
29	173.7000
30	173.7500
32	173.8000
34	173.8500
35	173.9000
36	173.9500
37	174.0000
38	174.0500
40	174.1000
42	174.1500
44	174.2000
45	174.2500
47	174.3000
48	174.3500
50	174.4000
52	174.4500
53	174.5000
54	174.5500
55	174.6000
57	174.6500
59	174.7000
60	174.7500
62	174.8000
63	174.8500
65	174.9000
66	174.9500
67	175.0000
71	175.0500

total: 35

Australia

13	173.3500
15	173.4000
19	173.4650
23	173.5450
26	173.6400
28	173.6950
31	173.7550
91	173.8125
35	173.9000
36	173.9500
37	174.0000
38	174.0500
41	174.1200
77	174.1750
86	174.2250
87	174.2750
78	174.3250
88	174.3750
89	174.4250
79	174.4750
90	174.5250
55	174.6000
57	174.6500
59	174.7000
61	174.7700
63	174.8500
65	174.9000
66	174.9500
67	175.0000
94	175.5000
95	175.6000
2	175.7000
9	175.8000
97	175.8500
10	175.9500
11	176.0000

total: 36

Netherlands

13	173.3500
15	173.4000
19	173.4650
23	173.5450
26	173.6400
28	173.6950
31	173.7550
91	173.8125
35	173.9000
36	173.9500
37	174.0000
38	174.0500
41	174.1200
77	174.1750
86	174.2250
87	174.2750
78	174.3250
88	174.3750
89	174.4250
79	174.4750
90	174.5250
55	174.6000
57	174.6500
59	174.7000
61	174.7700
63	174.8500
65	174.9000
66	174.9500
67	175.0000

total: 29

New Zealand

A1	173.0000
A2	173.0500
A3	173.1000
A4	173.1500
A5	173.2000
A6	173.2500
A7	173.3000
13	173.3500
15	173.4000
19	173.4650
23	173.5450
26	173.6400
28	173.6950
31	173.7550
91	173.8125
33	173.8250
35	173.9000
36	173.9500
93	173.9625
69	173.9900
37	174.0000

total: 21

Norway

91	173.8125
1	173.8625
92	173.9125
93	173.9625

total: 4

Germany

69	173.9900
84	174.0750
85	174.1250
77	174.1750
86	174.2250
87	174.2750
78	174.3250
88	174.3750
89	174.4250
79	174.4750
90	174.5250
55	174.6000
57	174.6500
59	174.7000
60	174.7500
62	174.8000
63	174.8500
65	174.9000
66	174.9500
67	175.0000

total: 20

Denmark*

P6	169.6750
P7	169.7250
P8	169.7750
P9	169.8250

total: 4

**Domestic rules may require local conformity*

microphone styles and compatibility rating



230R receiver (202-00-001-00)



340T transmitter (202-01-001-00)



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



5-300-400-110
earhook microphone
rating: ★★★



AT0816
collar microphone with mute
rating: ★★



630-15-500-03
Compact lavalier microphone
with lavalier cord

★★★★ = most compatible ★ = least compatible

speaker accessories



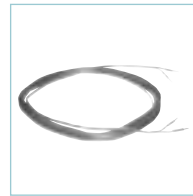
470-2856-119
compact wall speaker



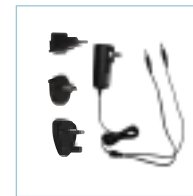
AT0806
distributed ceiling speaker



AT0579
floor speaker stand
only available for:
470-2856-119
compact wall speaker



AT0581-60
speaker cable
18.3m/60ft
AT0581-24
7m/24ft



890-88-051-00
340T universal wall charger
(UK, AU, NZ, EU)



890-88-004-00
230R power supply/charger & cord
AC cord:
-AT0787-EN (England)
-AT0787-EU (Europe)
-AT0787-AU (Australia)

connector kit

890-88-005-00 (Kit)



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



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



charging cord,
receiver-to-transmitter
1.3mm(M)-to-1.3mm (M)



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



374-30-330-00
rechargeable NIMH
AAA batteries
(2 each)



895-88-008-00
accessory/transmitter case

additional system accessories

transmitter accessories



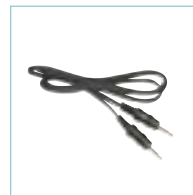
AT0529A
antenna (for use with
auxiliary input only)
(5m/15ft)



AT0512 - BK
lavalier cord
(for wearing 340T around
the neck)



AT0712
black elastic transmitter
waist belt



384-01-210-08
aux in adaptor cord
(3.5mm - 3.5mm)
340T to external audio:
computer, CD, etc.



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



384-88-005-00
aux in adaptor cord
(3.5mm - dual RCA)
340T to external audio,
computer, CD, etc. or
team teaching

aux in adaptor cords