

description

A dual-receiver, frequency-synthesized, two speaker FM sound field system housed in a single, portable column.

educational & commercial applications

For use in general or special education classrooms, conference rooms, senior centers, or training facilities. Helps reduce teacher/speaker vocal fatigue while improving test scores and listener comprehension.

key features

Portable; easy to install and operate; affordably priced; team-teaching ready; excellent sound quality; 16 total channels in 216MHz band for increased flexibility and compatibility with other products.

Radium™

sound field system

**All new
multi-channel
216MHz band
flexibility**

**two-channel column speaker: 920SR****receiver top controls****receiver column controls****body-worn transmitter: 921T****transmitter top controls**

| | |
|-------------------------------------|--|
| carrier frequency range/frequencies | 216.025 – 216.875MHz 16 total |
| modulation | FM (F3E) |
| output power | maximum 36W @ 4Ω x 2 |
| power requirements | 110V/240V AC adaptor 15V DC/2A, Battery 12V/2.7A (rechargeable, sealed lead-acid, 1-1.5 year life with continuous usage) |
| frequency response | 100Hz – 10kHz |
| total harmonic distortion | 1% (at rated output) |
| system signal-to-noise ratio | >65 dB (at rated output) |
| inputs | AUX x 1, power & charge |
| output | AUX x 1 (High: 700 mV/Low: 100mV) |
| controls | tone, channel A & channel B power/volume, aux volume, high/low output, master power, channel selector |
| dimensions (WXHXD) | 100 x 660 x 145 mm/ 3.9 x 26 x 5.7 in |
| weight | 5kg/11lbs |
| recharging time | 8 hours for initial charging 4 – 7 hours for recharging |
| battery operating time | 5 – 8 hours (continuous operation) |
| speaker stand | optional table stand (AT0823), floor stand (AT0824), or wall brackets (AT0820) |
| de-emphasis | 75µs |
| squelch | RSSI |

| | |
|-------------------------------------|--|
| carrier frequency range/frequencies | 216.025 – 216.875MHz 16 total |
| modulation | FM (F3E) |
| total harmonic distortion | <0.5% |
| frequency response | 50Hz to 12KHz |
| frequency stability | .0005% |
| maximum modulation | ± 25KHz, with level limiting |
| image rejection | over 70dB |
| pre-emphasis | 75µs |
| dynamic range | 100dB |
| operating range | >34m/110ft |
| dimensions (WXHXD) | 65 x 90 x 25 mm/ 2.5 x 3.5 x 1 in |
| weight | 51g/1.8oz |
| controls | on/standby/off/channel selector/volume |
| inputs/outputs | 2.5mm microphone input jack |
| battery | NiMH rechargeable (1600mA); alkaline disposable (2AA) |
| battery life | NiMH rechargeable: 20 hours typical alkaline disposable: 23 hours typical |
| recharging time | 6 hours |

handheld transmitter: 922T



| | |
|-------------------------------------|--|
| carrier frequency range/frequencies | 216.025–216.875MHz 16 total (see chart below) |
| mic | dynamic microphone |
| antenna | built-in |
| RF output | 15mW |
| battery | NiMH rechargeable battery; alkaline disposable; 1.5V x 2 AA |
| battery life | NiMH rechargeable: 23 hours typical alkaline disposable: 27 hours typical |
| recharging time | 6 hours (NiMH batteries) |
| dimensions (dia x length) | 54 x 237 mm/2.1 x 9.3 in |
| weight | 230g/8.1oz |
| controls | on/standby/off/channel selector |

channels/frequencies

| Channel # | Channel A | Channel # | Channel B |
|-----------|-------------|-----------|------------|
| 41 | 216.025 MHz | 51 | 216.525MHz |
| 42 | 216.075MHz | 52 | 216.575MHz |
| 43 | 216.125MHz | 53 | 216.625MHz |
| 44 | 216.175MHz | 54 | 216.675MHz |
| 45 | 216.225MHz | 55 | 216.725MHz |
| 46 | 216.275MHz | 56 | 216.775MHz |
| 47 | 216.325MHz | 57 | 216.825MHz |
| 48 | 216.375MHz | 58 | 216.875MHz |

microphone options



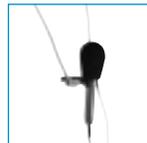
AT0655
behind-the-neck
microphone
★★★★



AT0814
earhook microphone
★★★★



AT0816
FM collar microphone
with mute switch
★★★



AT0291-L
directional microphone
with lavalier cord
★★

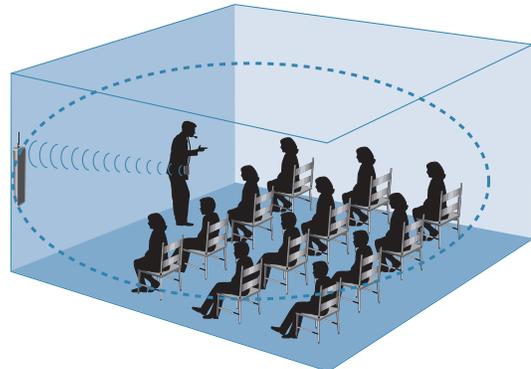
★★★★= most compatible ★= least compatible

charging stand: 923C



| | |
|-------------------|--|
| power supply | AC adaptor (DC 12V/0.5A) |
| indicator lights | LED green = battery ready LED orange = recharging LED red = power on |
| recharging time | NiMH (1300mA): 4 hr |
| dimensions (WXHD) | 135 x 47 x 230 mm/5.3 x 1.9 x 9 in |
| weight | 360g/12.7oz |
| controls | on/off switch |

speaker placement



Based on your classroom acoustics and seating arrangement, speaker placement will vary. Download our **sound field wizard** software from www.phonicear.com to determine the best arrangement possible.

mounting options

choose from one of the following:



AT0820
wall mounting bracket
(set of 2)



AT0823
speaker table stand



040-7402-106
power supply cord



AT0532-05
auxiliary output/
input cable
(5ft/1.5m)



AT0712
921T elastic
waist belt



300-6332-107
aux-in cable for
external audio
(3.5mm–dual RCA)



AT0831
920SR speaker
antenna



330-3000-101
channel changer
screwdriver

system accessories

optional accessories



AT0822
carrying bag with
shoulder strap



AT0801
aux-box (adds four
additional audio
inputs)



AT0824
speaker floor stand



AT0532-15
auxiliary input/
output cable
(15ft/4.6m)



AT0529A
transmitter antenna



310-2544-1341
aux-out adaptor plug
(3.5mm–2.5mm)