

## description

A two-channel, wireless, infrared sound field system that eliminates channel management, allowing for an unlimited number of installations.

## educational & commercial applications

For use in general or special education classrooms, conference rooms, senior centers, or training facilities. Benefits those with and without learning disabilities (LD) or minimal hearing impairment. Proven to reduce teacher absenteeism from vocal fatigue and student LD referrals, while improving literacy test scores and comprehension.

## key features

Very easy to operate and recharge. Infrared technology greatly reduces FM interference and offers crystal-clear sound quality.

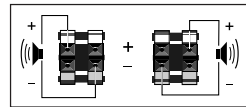
## specifications:

# VocaLight™

## infrared sound field system



### base station receiver: 900R



bridgeable for 2-speaker operation

receiving frequency	2.3MHz & 2.8MHz
modulation	FM wide-band
frequency response	50Hz to 16kHz
speakers	8 Ω
max. acoustic output	90dBa ± 3dB @ 1m into 8 Ω
auxiliary input level	100 mV <sub>rms</sub>
aux. input impedance	22k Ω ± 10%
signal-to-noise	>65dB
THD	<2% @ 1kHz into 8 Ω
nominal deviation	± 12kHz
maximum deviation	± 25kHz
squelch	RF carrier/tone control
squelch level	-25dBu
power supply	15VAC at 2A (AT0783)
user controls	power on; channel A volume; channel B volume; auxiliary volume; treble
displays	LEDs for "On" "Channel A", "Channel B", "Aux Vol"; red LED indicates power; green LED indicates IR signal reception
color	black with purple/orange lettering
size (WxHxD)	21.5 x 4.5 x 21.1 cm/8.5 x 1.75 x 8.3 in
weight	1.3kg/3lbs
case	steel, baked enamel finish
reception area	163m <sup>2</sup> /1225ft <sup>2</sup>
reception angles	140° horizontally; 110° vertically
inputs/outputs	1/4in mono aux in jack; RCA aux out jack; 4 quick-connect speaker terminals; 2 RCA jacks for external sensor connection; 2.5mm barrel type input power jack; 1.3mm barrel type output charge jack

### transmitters: 900T/900HT



#### 900T body-worn transmitter

transmitting frequency	2.3MHz & 2.8MHz (switchable)
modulation	FM wide-band
operating range	12m/40ft line-of-sight
user controls	on/off/mute/channel
inputs/outputs	6-pin DIN input jack; 1.3 mm DC jack for charging
battery life	12Hr (AA disposable alkaline) 7Hr (AA 1600mAh rechargeable NiMH)
size (WxHxD)	5.6 x 9.4 x 2.5 cm/2.2 x 3.7 x 1 in
weight	65g/2.3oz without batteries
case	ABS plastic

#### 900HT handheld transmitter

transmitting frequency	2.3MHz & 2.8MHz (switchable)
modulation	FM wide-band
audio distortion	<1.0% (±15kHz deviation @1kHz)
microphone type	uni-directional dynamic
user controls	on/off/channel
battery life	8 hours fully charged
size (WxH)	58 x 255 mm/2.28 x 10.04 in
weight	258g/9.1oz with battery

## speaker options



### 470-2856-119 compact wall speaker

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 14cm/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



### AT0806 distributed ceiling speaker

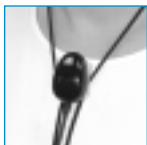
speaker type	coaxial: 6in woofer, .5in tweeter
impedance	8Ω nominal
sensitivity	90dB, 1W @ 1m
continuous power	35W
peak power	70W
frequency response	65Hz to 20kHz
dimensions (DIA x D)	203 x 5.7 cm/9 x 2.25 in
weight	1.1kg/2.4lbs
mounting	acoustic ceiling metal tile bridge (470-7347-106)
speaker wire	AT0581 7.3m/24ft, 14.6m/48ft, and 18.3m/60ft lengths available
min ceiling height	3m/10ft



### AT0664 cluster ceiling speaker

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 x 2ft 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

## microphone options: choose one



AT0795-L  
lapel emitter/  
microphone

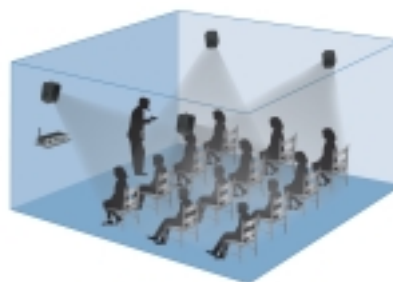


900HT  
handheld microphone



AT0817  
infrared collar mic  
with mute

## 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**, to determine the best arrangement possible.

## included accessories



AT0784  
receiver mount



AT0848/AT0847  
2 external infrared  
sensors and cables



AT0807  
AA NiMH rechargeable  
batteries



AT0783  
900R wall transformer



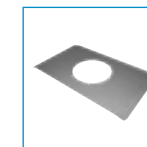
AT0796  
900T 2-unit  
charging cord



AT0712  
elastic transmitter  
waist belt



470-7329-103  
speaker mount bracket  
(included with  
470-2856-119)



470-7347-106  
AT0806 speaker metal  
tile bridge

## optional accessories



900HTC  
handheld transmitter  
charging stand



AT0653-30  
aux input cord for  
FM teaching or connection  
to CD, TV, VCR, etc.



AT0529A  
antenna for use  
when connecting  
FM transmitter



AT0813  
aux-out interface cord  
for rebroadcasting



AT0792  
900HTC power  
charger



AT0795-LY  
lapel mic lavalier  
cord



AT0801  
auxbox with 4  
additional audio/visual  
input options



AT0579-T  
table-top compact  
speaker stand  
(requires AT0582  
stand adapter)