

STARSOUND® system 600

specifications:

STARSOUND®

infrared

system 600

2.3/2.8 MHz



description Wireless, two-channel infrared emitter and personal receivers

application Hearing accessibility, simultaneous interpretation, and audio description for courtrooms, recorded tours, conference centers, and live theatres

key features Prevents interference from ballast lighting; stereo or two-channel transmission; signal does not penetrate walls (meaning sensitive transmissions are secure and multi-room installations are possible)

emitter Wall- or stand-mounted

receiver 2-channel or stereo

reception 160° (body-worn), 360° (headset)

frequencies 2.3 and 2.8 MHz

typical range 370m²/4,000ft² area

portability Carrying case organizer

)))))) **PhonicEar**®

U.S.A.: 800.227.0735 Canada: 800.263.8700 Outside U.S.A./Canada: 707.769.1110 Web: www.phonicear.com

emitter: PE 600E

portable design

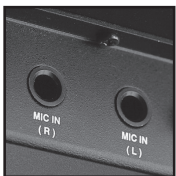
Easy to carry; sets up in minutes on a table-stand or floor-stand

daisy chain capability

370m²/4,000ft² coverage with easy expansion when you need more

additional inputs

Ideal for language interpretation or commentary over other audio



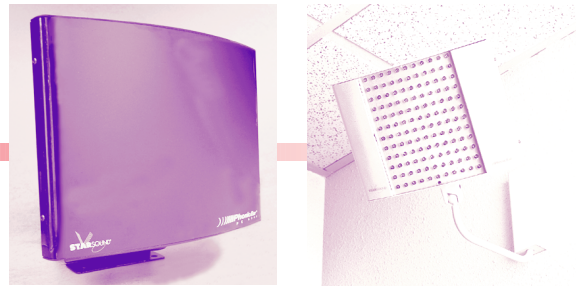
easy to use

Bright indicator lights help you quickly confirm signal



fights interference

2.3/2.8 MHz frequencies put your transmissions well above interference from ballast lighting



transmitting frequency	2.3MHz and 2.8MHz simultaneously
modulation	FM wide-band
frequency response	50Hz to 12kHz ± 3dB
supply voltage	28VDC
current drain	700mA
audio input impedance	18k Ω
mic input impedance	1.3k Ω
min. audio input level	100mV
microphone input level	1mV
ALC range (audio input)	550mV to 7V
coverage	370m ² /4,000ft ²
user controls	None
inputs / outputs	Left & right audio input phono jack Left & right sync input phono jack Left & right sync output phono jack Left & right mic input 0.25in mono jack
power input jack	2.5mm
size	25 x 18 x 7.5 cm/10 x 7.25 x 3 in
weight	1,100g/36.6oz
case	Aluminum with baked enamel finish and purple or clear acrylic lens
mounting boss	0.25in-20

accessories

<p>AT0707 portable system case</p>	<p>AT0571 dynamic microphone</p>	<p>AT0570-10 3m/10ft or XLR cable 0.25 (use with AT0571)</p>	<p>AT0702-25 7.6m/25ft RCA-RCA cable</p>
<p>AT0701 wall transformer</p>	<p>AT0579-IR floor stand</p>	<p>AT0579-T-IR table-top stand</p>	<p>AT0582-IR stand adapter</p>
	<p>AT0603 wall mounting bracket</p>		

bid specifications

The emitter panel must be a dual-channel system operating on both 2.3 and 2.8 MHz frequencies. The channels must be designated "CHANNEL A" for the left and "CHANNEL B" for the right. The emitter must have left and right AUDIO IN jacks to accept an input signal from a sound system, left and right SYNC IN/SYNC OUT jacks for daisy-chaining with other emitters if desired, and left and right MIC IN jacks to accept an audio signal from a microphone. The emitter must have separate LED input level detectors for each channel which light when the audio signal peaks. The emitter must be capable of being mounted to a wall either directly or with an adjustable wall-mounting bracket, or mounted to a table-top- or floor-stand using a stand adapter. The emitter must have an array of 130 infrared LEDs covered by a purple acrylic lens. The infrared signal from each emitter must cover up to 370m²/4,000ft². The transformer must be UL- and CUL- approved.

body-worn receiver: PE 600R



standard output jack

Accommodates teleloops (shown), headsets, earbuds, stetcloips, and more; stereo headset compatible

indicator light

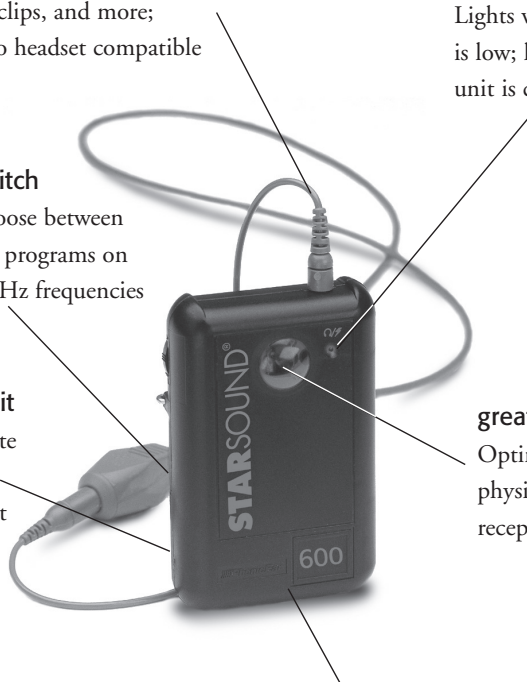
Lights when battery is low; lights when unit is charging

channel switch

Users can choose between two different programs on 2.3 or 2.8 MHz frequencies

squelch circuit

Eliminates white noise when no signal is present



great reception

Optimized lens physics for wider reception angle

two battery options

AA high-capacity NiCad rechargeable batteries offer a 35-hour life between charges; disposable alkaline batteries provide an 80-hour life

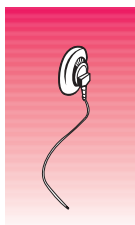
receiving frequency	2.3 or 2.8 MHz (switchable)
modulation	FM wide-band
audio frequency response	100Hz to 7kHz \pm 3dB
max sound pressure	134dB (w/ 100 Ω transducer) 113dB (w/ AT0541 headset)
signal-to-noise ratio	> 55dB
squelch level	25dB SINAD
power supply	2 AA NiCad or alkaline cells
operating time	35Hr between charges (NiCad)
nominal volume setting	80Hr (alkaline) typical
current drain	20mA typical
output/charge jack	3.5mm
detector lens	Infrared element with ambient light filter
user controls	On/off/volume; channel
displays	Charging/low battery LED 4Hr remaining (NiCad) 6 to 8 Hr remaining (alkaline)
color	Translucent purple with red acrylic lens and lettering
size	2.5 x 9.4 x 5.6 cm/ 1 x 3.7 x 2.2 in
weight	100g/3.5oz
case	ABS plastic

accessories

AT0719
wearing strap



AT0538-SM
monaural earbud



AT0538-SS
binaural earbuds



AT0538-SP
25 cushions
for earbuds



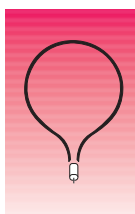
AT0541-14
standard headset



AT0607-S
two earpads
for headset



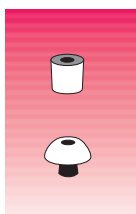
AT0163-B teleloop
(use with AT543
connector cord)



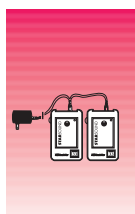
AT0359-S stetcloip
(use with AT016
transducer burton
and AT0545 con-
nector cord)



earrips for stetcloip:
AT0352-S
20 mushroom-style
AT0317-B
100 foam-style



AT0534-S
two-unit charger



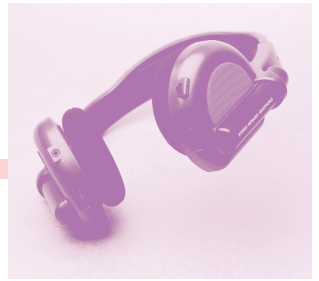
AT0665-S
two rechargeable
high-capacity
NiCad batteries



bid specifications

The receiver must be a dual-channel unit capable of being worn around the neck with an adjustable strap. It must be compatible with the PE 600E emitter and operate on 2.3 or 2.8 MHz frequencies. It must be self-contained and switchable from "CHANNEL A" to "CHANNEL B" through a switch located on the back of the unit. The receiver must have an infrared light-gathering lens on the front of the unit which focuses the light signal from the emitter onto the infrared detector element. It must be capable of detecting the infrared light within a 160° angle. It must be able to be powered by two easily-changed AA NiCad batteries with a typical life of 35 hours or two AA alkaline batteries with a typical life of 80 hours. It must allow NiCad batteries to be recharged without removal from the receiver either in the PE 300C charger/organizer or with the AT0534 wall transformer/two-unit charger. The receiver must have a caution note inside the battery compartment warning the user not to recharge disposable batteries. It must have an indicator light which lights when four hours of NiCad battery life or six to eight hours of alkaline battery life remain, and when NiCad batteries are charging. The receiver must have a protection circuit which prevents battery back-drain if the power to the charger is turned off during recharging. It must incorporate an audio squelch circuit which turns the output circuit off when the infrared signal is reduced or not received. It must have an on/off /volume control. It must have an output jack which accepts any of the Phonic Ear-supplied listening accessories. The receiver must have a translucent purple case with red lens.

stereo headset: PE 601R



user-friendly design
Lightweight, comfortable, attractive, and easy to use

meets accessibility laws
Works with T-coil equipped hearing aids

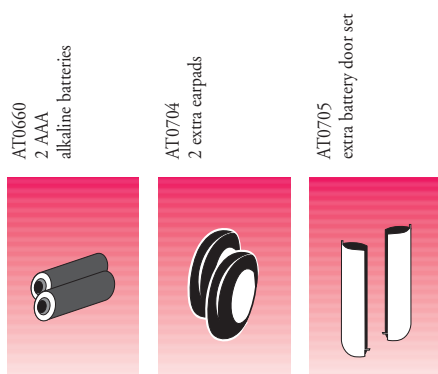
convenient replaceable batteries
2 AAA alkaline batteries offer 20 hours of operating life

easy volume controls
One for each ear — made to adjust to individual hearing needs

great stereo sound
Wide-band reception offers greater fidelity, and the higher 2.3/2.8 MHz frequencies are well above interference from lighting sources

receiving frequency	2.3 MHz & 2.8 MHz simultaneously (stereo)
modulation	FM wide-band
reception	360°
frequency response	60Hz to 12kHz ± 3dB
signal-to-noise ratio	54dB non-weighted
power supply	2 AAA alkaline cells
operating time	20Hr
nominal volume setting	
current drain	25mA maximum; 20mA typical
maximum output power	6mW
detector lens	Infrared element with ambient light filter
user controls	Power Left and right volume
color	Black
weight	200g/7.1oz

accessories



bid specifications

The receiver must be a self-contained headset compatible with the PE 600E emitter and must receive a stereo signal on 2.3 and 2.8 MHz frequencies. The receiver must have infrared light-gathering lenses on the outer top left and right side of each earphone which focus the light signal from the emitter onto the infrared detector element. It must be capable of detecting the infrared light within a 360° angle. It must be able to be powered by two disposable AAA alkaline batteries with a typical life of 20 hours. The receiver must have left and right volume controls located for easy access at the bottom of each earphone. A power switch must be located on the bottom of the right earphone. The receiver must have a black earphone grille and case.

two-channel headset: PE 602R



convenient replaceable batteries

2 AAA alkaline batteries offer
20 hours of operating life

easy volume controls

One for each ear — made to
adjust to individual hearing needs

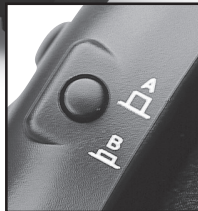


great sound

Wide-band reception offers greater
fidelity, and the higher 2.3/2.8 MHz
frequencies are well above interfer-
ence from lighting sources

meets accessibility laws

Works with T-coil equipped
hearing aids



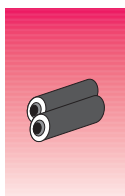
channel selector

Users can choose from two
simultaneous programs —
ideal for recorded tours,
language interpretation,
or audio description

receiving frequency	2.3MHz & 2.8MHz (switchable)
modulation	FM wide-band
reception	360°
frequency response	60Hz to 12kHz ± 3dB
signal-to-noise ratio	54dB non-weighted
power supply	2 AAA alkaline cells
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detector lens	Infrared element with ambient light filter
user controls	Power Left and right volume Channel selector
color	Black
weight	200g/7.1oz

accessories

AT0660
2 AAA
alkaline batteries



AT0704
2 extra
earpads



AT0706
extra battery
door set



bid specifications

The receiver must be a dual-channel headset, compatible with the PE 600E emitter and operating on 2.3 or 2.8 MHz frequencies. It must be self-contained and switchable from "CHANNEL A" to "CHANNEL B" through a push-on/push-off button located on the bottom of the left earphone. The receiver must have infrared light-gathering lenses on the outer top left and right side of each earphone which focus the light signal from the emitter onto the infrared detector element. It must be capable of detecting the infrared light within a 360° angle. It must be able to be powered by two disposable AAA alkaline batteries with a typical life of 20 hours. The receiver must have left and right volume controls located for easy access at the bottom of each earphone. A power switch must be located on the bottom of the right earphone. The receiver must have a black earphone grille and case.

12-unit charger: PE 300C (2-unit charger also available)



additional storage

Second compartment offers room to store listening accessories, microphones, or other items

portable

Lightweight and sturdy construction allows transportation from site to site



capacity	12 receivers
power supply	Wall transformer (AT0461)
user control	None
color	Black with aluminum trim
size	39.4 x 29.2 x 15.2 cm/ 15.5 x 11.5 x 6 in
weight (empty)	1859g/4.1lbs

saves time & money

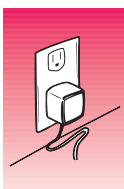
Charge multiple receivers at once

organizes & protects

Room to charge and store 12 body-worn receivers

accessories

AT0461-S
wall transformer
(included with PE 300C)



bid specifications

The charger must be capable of storing or recharging up to 12 PE 600R receivers at once. The charger must have 12 charge cords which plug into the charge jack on the receivers. The charger must have an external UL- and CUL-approved wall transformer that plugs directly into the charging unit itself. It must have a pocket to contain the power wall transformer during storage. There must be no on/off switch. The charging circuitry must be fully automatic. The charger must be capable of recharging the receiver batteries in 13 hours maximum when 500mA/Hr batteries are used. It must have a green power light which lights when the wall transformer is plugged in. The charger must be capable of recharging NiCad batteries without removal of the batteries from the receiver. The charger must have a large, foam-lined storage space for accessories, and a locking lid and handle.