

# Hearing Helper® FM Receiver, Model R1-216

## Description:

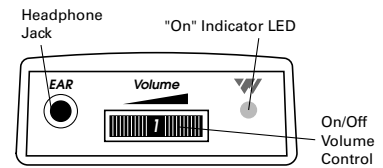
The PPA R1-216 is narrowband, single-channel, body-pack style receiver that operates on the 216 MHz bandwidth. It features an impact-resistant case and a belt clip for hands-free operation. Each receiver is pretuned, and field adjustable by internal tuning coil. The R1-216 will operate up to 100-300 feet when used with a T1-216 transmitter. A 3.5 mm mono phone jack accommodates low-impedance mono earphones, headphones and neckloop telecoil couplers. Operating on two (2) AA batteries, each unit will perform continuously up to 20 long-lasting hours. Alternatively, NiMH AA rechargeable batteries can be used for 15 hours of performance. Each receiver features drop-in charging points, which allows up to 16 units to be charged at once in a single CHG 1600 multi-charger.

## Applications:

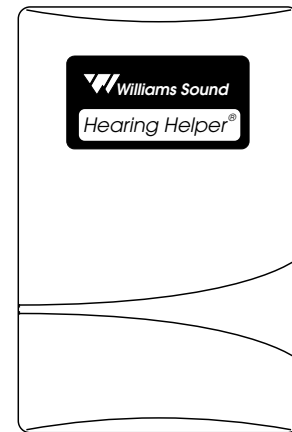
- Group Tours • Destination Marketing Organizations
- Cruise Ships • Tourism Offices • University Tours • Large-Scale Guide

## PPA R1-216 Receiver:

<b>Dimensions:</b>	3-5/8" L x 2-3/8" W x 7/8" H (92.1 mm x 60.3 mm x 22.2 mm)
<b>Weight:</b>	4.6 oz (130 g) with batteries
<b>Color:</b>	Neptune blue, shatter-resistant polypropylene
<b>Battery Type:</b>	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 50 mA nom. current drain, 20 hours approx. life (OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 50 mA nominal current drain, 14 hours per charge approx., recharges in 14-16 hours, uses CHG 1600 Multiple Battery Charger
<b>Operating Frequencies:</b>	216.325 MHz, standard (216.425, 216.625, 216.725 MHz optional)
<b>Stability:</b>	± .005%, crystal reference, PLL
<b>FM Deviation:</b>	Narrow-band FM, 10 kHz, 100 µS de-emphasis
<b>AFC Range:</b>	± 120 kHz
<b>Sensitivity:</b>	.5 µV at 12 dB Sinad with squelch defeated, squelches at 8 µV for min. 50 dB S/N ratio
<b>Freq Response:</b>	200 Hz to 10 kHz, +2, -4 dB
<b>Signal-to-Noise Ratio:</b>	60 dB at 10 µV
<b>Receive Antenna:</b>	Integral with earphone cord
<b>Audio Output:</b>	35 mW, max. at 16 Ω; for use with 8-32 Ω mono headphones
<b>Output Connector:</b>	3.5 mm mono phone jack
<b>Squelch:</b>	Set to turn off audio under weak or no signal condition
<b>Controls:</b>	Volume: thumbwheel/on/off/volume
<b>Indicators:</b>	"On" LED
<b>Note:</b>	Specifications are electrical performance
<b>Warranty:</b>	5 years, parts and labor (90 days on accessories)



R1-216 Top



R1-216 Front

## Bid Specs:

The PPA R1-216 receiver shall be housed in an impact resistant plastic case with a hinged battery door that does not separate from the receiver. The receivers shall be a body-pack type and include a belt-clip case for hands-free operation. The receiver shall have a 3.5 mm mono phone jack and accommodate low-impedance mono earphones, headphones and neckloop telecoil couplers. It shall have drop-in charging points on the bottom of the unit. Receiver frequencies shall be pre-tuned and adjustable by means of an internal tuning coil. A four-channel receiver model shall be available for use with the system. The receivers shall receive FM signals in the 216 MHz bandwidth with 100 µS de-emphasis. The receivers shall provide a maximum output of 35 mW at 16 Ohms with an earbud-type earphone. The system electrical frequency response shall be 200 Hz to 10 kHz, +2, -4 dB and the signal-to-noise ratio shall be 60 dB at 10 µV. The receiver shall be covered by a five-year parts and labor warranty, excluding earphones, headphones, batteries and chargers. The receiver model shall be the Williams Sound Corp. model PPA R1-216.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

# Hearing Helper<sup>®</sup> FM Receiver, Model R1-216

## Contact:

### United States and Mexico

Williams Sound Corp.  
10321 W. 70th Street  
Eden Prairie, MN 55344-3446  
Ph: 800-328-6190 / 952-943-2252 / FAX: 952-943-2174  
Web: [www.williamssound.com](http://www.williamssound.com)  
Email: [info@williamssound.com](mailto:info@williamssound.com)

### Canada

Thorvin Electronics  
2861 Sherwood Heights Dr. Units 36-37  
Oakville, ON L6J-7K1 Canada  
Ph: 800-323-6634 / 905-829-3040 / FAX: 905-829-4196  
Web: [www.thorvinelectronics.com](http://www.thorvinelectronics.com)

### South America

DPtech  
SIA Trecho 3/4 Lote 335 2°. Andar  
71200-030 Brasília, DF  
BRAZIL  
Ph: (5561) 361-1384  
Fax: (5561) 361-0948  
Web: [www.dpotech.com.br](http://www.dpotech.com.br)  
Email: [ws@dpotech.com.br](mailto:ws@dpotech.com.br)

### Europe and Asia

Williams Sound Sales Office  
Email: [pauli@williamssound.com](mailto:pauli@williamssound.com) (or) [doreenarmstrong@hotmail.com](mailto:doreenarmstrong@hotmail.com)