

# ONE 2 ONE™ FM Receiver • Model R1-216



## Description:

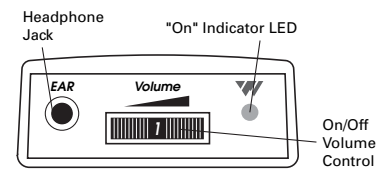
The PPA R1-216 is narrowband, single-channel, body-pack style receiver that operates on the 216 MHz bandwidth. It features an impact-resistant case and a belt clip for hands-free operation. Each receiver is pretuned, and field adjustable by internal tuning coil. The R1-216 will operate up to 100-300 feet when used with a T1-216 transmitter. A 3.5 mm mono phone jack accommodates low-impedance mono ear-phones, 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

## R1-216 Receiver:

Dimensions:	3-5/8" L x 2-3/8" W x 7/8" H (92.1 mm x 60.3 mm x 22.2 mm)
Weight:	4.6 oz (130 g) with batteries
Color:	Neptune blue, shatter-resistant polypropylene
Battery Type:	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
Operating Frequencies:	216.325 MHz, standard (216.425, 216.625, 216.725 MHz optional)
Stability:	± .005%, crystal reference, PLL
FM Deviation:	Narrow-band FM, 10 kHz P-P, 100 µS de-emphasis
AFC Range:	± 120 kHz
Sensitivity:	.5 µV at 12 dB Sinad with squelch defeated, squelches at 8 µV for min. 50 dB S/N ratio
Freq Response:	200 Hz to 10 kHz P-P, +2, -4 dB
Signal-to-Noise Ratio:	60 dB at 10 µV
Receive Antenna:	Integral with earphone cord
Audio Output:	35 mW, max. at 16 Ω; for use with 8–32 Ω mono headphones
Output Connector:	3.5 mm mono phone jack
Squelch:	Set to turn off audio under weak or no signal condition
Controls:	Volume: thumbwheel/on/off/volume
Indicators:	"On" LED
Note:	Specifications are electrical performance
Approvals:	FCC, WEEE
Warranty:	5 years, parts and labor*



R1-216 Top



R1-216 Front

\*90 days on accessories.

**NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!**

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### 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  $\mu$ S 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 P-P, +2, -4 dB and the signal-to-noise ratio shall be 60 dB at 10  $\mu$ V. The receiver shall have FCC and WEEE approval and be covered by a five-year parts and labor warranty.\* The receiver model shall be the Williams Sound Corp. model PPA R1-216.

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