

# FM Tour Guide Receiver, Model TGS R30

## Description:

The TGS R30 Receiver is a single-channel, FM wideband receiver operating on the 72-76 MHz bandwidth. This low-cost, easy-to-use receiver includes two AA batteries for 80 hours of long-lasting operation. It features a volume control/on/off dial, earphone/charging jack and LED power indicator.

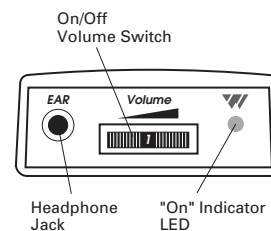
## Applications:

• Churches • Schools • Auditoriums • Museums • Conferences • Tour Groups

## Specifications:

<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>	Gray
<b>Battery Type:</b>	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 14 mA nom. current drain, 80 hours approx. life (OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 14 mA nominal current drain, 50 hours per charge approx., recharges in 14–16 hours, uses CHG 1600 Charger or CHG 200 Charger
<b>FCC ID:</b>	CNM R30
<b>Industry Canada Cert.:</b>	13601021234
<b>Operating Freq.:</b>	Pre-Tuned, Adjustable, 72 MHz - 76 MHz *
<b>Intermediate Freq.:</b>	75 kHz
<b>FM Deviation:</b>	75 kHz
<b>De-Emphasis:</b>	75 $\mu$ S
<b>AFC Range:</b>	$\pm$ 120 kHz
<b>Sensitivity:</b>	4 $\mu$ V at 12 dB Sinad with squelch defeated
<b>Input Overload:</b>	20 mV
<b>Frequency Response:</b>	100 – 10 kHz, $\pm$ 3 dB
<b>Signal-to-Noise Ratio:</b>	50 dB at 10 $\mu$ V
<b>Receive Antenna:</b>	Integral with earphone/headphone cord
<b>Audio Output:</b>	35 mW, max. at 16 $\Omega$
<b>Output Connector:</b>	3.5 mm mono phone jack
<b>Earphone:</b>	Earbud-type with foam cushion, 3.5 mm plug, 32 $\Omega$
<b>Warranty:</b>	Five years, parts and labor. 90 days on cords, earphones, headphones, batteries and other accessories.
<b>Notes</b>	The R30 Receiver can be field tuned to any of 10 wideband channels using the PLT 005 Tuning Tool.

\*Note: FCC rules limit the use of the 72–76 MHz band to hearing assistance for the handicapped only. Other frequencies are available that do not have this use restriction.



TGS R30 Top



TGS R30 Front

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

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## Bid Specs:

The R30 receiver shall be encased in a gray, polypropylene impact-resistant plastic with a single hinged door for battery installation. The receiver shall be a body-pack type and have the option for 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 neckloops telecoil couplers. The receiver shall have a combination volume control and power on/off rotator dial, and a green LED power "on" indicator. The receiver shall be pre-tuned to one of 10 available channels from 72-76 MHz and field adjustable by internal tuning coil. The receiver shall operate up to approx. 80 hours when using 1.5 V AA Alkaline batteries, and shall operate up to approx. 50 hours when using 1.5 V NiMH rechargeable AA batteries.

The receiver shall receive FM signals in the 72-76 MHz audio assistance band with 75  $\mu$ S de-emphasis. The receiver shall provide a maximum output of 35 mW at 16 Ohms with an earbud-type earphone. The system's electrical frequency response shall be 100 Hz to 10 kHz,  $\pm$  3 dB and the signal to noise ratio shall be 50 dB at 10  $\mu$ V. The receiver shall have a sensitivity of 4  $\mu$ V at 12 dB Sinad.

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 TGS R30.

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