

# Hearing Helper™ FM Tour Guide System • Model TGS PRO 720



## Description:

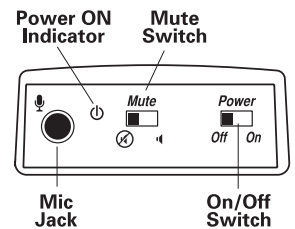
The Hearing Helper™ FM Tour Guide System, model TGS PRO 720, helps tour group members with hearing difficulties overcome background noise and distance from the guide. Use it in factories, museums, power plants—anywhere hearing assistance is needed. System includes one (1) T32 transmitter with MIC 086 microphone, ten (10) R35 receivers, batteries and system carry case. System operates on 72-76 KHz bandwidth for hearing assistance.

## Applications:

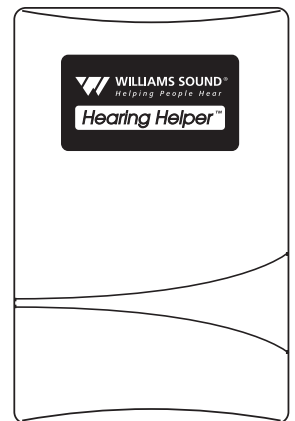
- Group Tours • Destination Marketing Organizations • Cruise Ships • Tourism Offices
- University Tours • Large-Scale Guided Attractions • Museum & Presentation Centers
- Conferences Requiring Language Interpretation • Chambers of Commerce • Factory/Plant Tours

## PFM T32 FM Transmitter

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:	4.4 oz (125 g) with battery
Color:	Royal blue, shatter-resistant polypropylene
Battery Type:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001), 70 mA nominal current drain, 30 hours approx. life (OR) Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026), 70 mA nominal current drain, 20 hours per charge approx., recharges in 14–16 hours, uses CHG 200 or CHG 1600 Charger
Operating Freq's:	Selectable, 16 channels, 72.1 – 75.9 MHz, internal rotary switch
Stability:	± .005%, frequency synthesized, crystal reference, PLL
Modulation:	Wide-band FM, 75 kHz pk, 75 µS pre-emphasis
RF Output:	8000 µV/m at 30 m, max., 40 mW typical
Freq Response:	200 to 10 kHz, + 3 dB at 1% max. THD
Signal-to-Noise Ratio:	55 - 60 dB, with R31 or R32 Receiver
Microphone Gain Control:	45 dB maximum, 18 dB minimum
Transmit Antenna:	Integral with 39" microphone cord
Microphone:	Electret type, 39" cord, 3.5 mm mono phone plug
Controls:	On/Off switch, slide-type; Microphone Mute Switch, slide-type; Compression Selector 1:1 or 2:1 with internal selectable jumper
Mic Connector:	3.5 mm mono phone jack
Compatible Receivers:	PPA R35, PFM R31, PFM R32
Approvals:	FCC, Industry Canada, RoHS, WEEE
Warranty:	5 years, parts and labor (90 days on accessories)
Note:	FCC regulations, section 15.21, requires the user to comply with the rules of transmitter operation. Any changes or modifications made by the user not expressly approved for compliance may result in the loss of all privileges and authority to operate the equipment.



T32 Top



T32 Front

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

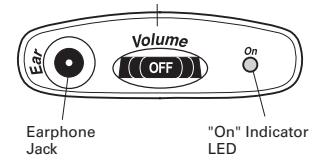
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## PPA R35 Receiver

Dimensions:	4.1" L x 2.85" W x 1.2" H (104.1 mm x 72.4 mm x 30.4 mm)
Weight:	4.5 oz (127 g)
Color:	Gray
Battery Type:	Two (2) AA non-rechargeable alkaline batteries (BAT 001), approx. 100 hours battery life (OR) Two (2) AA rechargeable NiMH batteries (BAT 026), 1400 mA, approx 56 hours battery life
Current Consumption:	Nominal 40 mA
Operating Freq.:	Pre-tuned, adjustable, 72 MHz-76 MHz *
Intermediate Freq.:	75 kHz
FM Deviation:	75 kHz
De-Emphasis:	75 $\mu$ S
AFC Range:	$\pm$ 120 kHz
Sensitivity:	2 $\mu$ V at 12 dB Sinad with squelch defeated
Input Overload:	20 mV
Frequency Response:	100 – 15 kHz, $\pm$ 3 dB
Signal-to-Noise Ratio:	65 dB at 10 $\mu$ V
Receive Antenna:	Integral with earphone/headphone cord
Audio Output:	35 mW, max. at 16 $\Omega$
Output Connector:	3.5 mm mono phone jack
Approvals:	FCC, Industry Canada, RoHS, WEEE
Notes:	The R35 Receiver can be field tuned to any of 10 wideband channels using the PLT 005 Tuning Tool.
Warranty:	5 years, parts and labor (90 days on accessories)

Note: \*FCC rules limit the use of the 72–76 MHz band to hearing assistance.



R35 Top



R35 Front

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