

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

TGS PRO MULTI

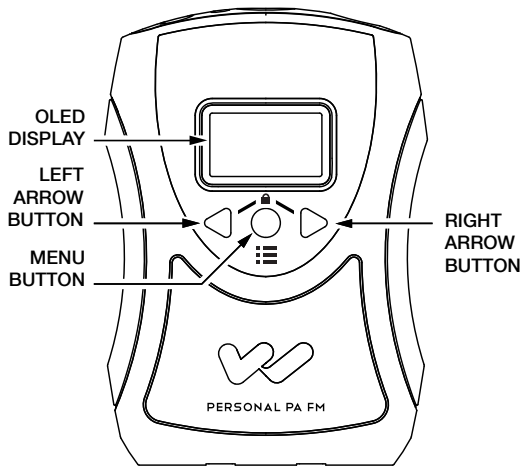
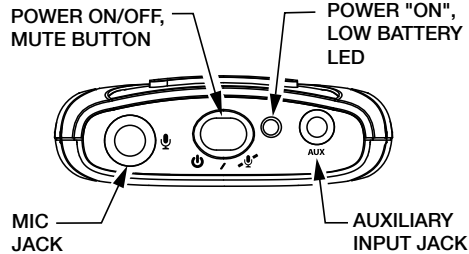
Hearing Helper FM Tour Guide System



The Hearing Helper® FM Tour Guide System, model TGS PRO MULTI, 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. The Hearing Helper Tour Guide System features eight selectable operating frequencies on 72-76 MHz. As a result, multiple tour guide systems can operate within the same location, simultaneously, with no crosstalk or interference. System includes one (1) T46 transmitter with MIC 100 microphone, ten (10) R37-8 receivers, batteries and a system carry case.

Hearing Helper FM Tour Guide System

PPA T46 FM Transmitter



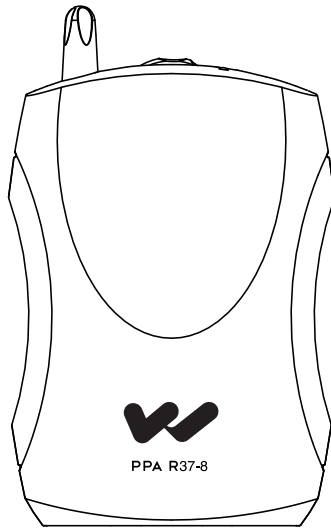
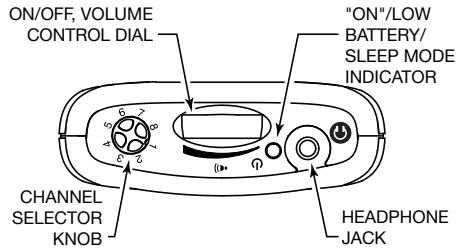
Dimensions:	4.1" L x 2.8" W x 1.1" D (104 mm x 71 mm x 28 mm)
Weight:	2.6 oz (74 g), no batteries
Color:	Black/Silver
Enclosure Material:	Shatter-resistant PC/ABS plastic with textured scratch-resistant aluminum faceplate
Battery Type options:	Two (2) AA 1.5 V non-rechargeable Alkaline batteries (BAT 001-2), 75 mA nominal current drain, up to 30 hours battery life Two (2) AA 1.5 V NiMH rechargeable batteries (BAT 026-2), 75 mA nominal current drain, up to 20 hours battery life per charge, recharges in 14–16 hours, uses CHG 3502 or CHG 3512 Charger
Operating Frequencies:	Selectable, 17 channels, 72.1 – 75.9 MHz*. Switchable 8 or 17 Channel Mode. (8-channel mode setting corresponds with PPA R35-8 receiver channels)
Stability:	± .005%, frequency synthesized, crystal reference, PLL
Modulation:	Wide-band FM, 75 kHz peak, 75 μS pre-emphasis
RF Output:	80 mV/m at 3 m (max. allowed by FCC rules)
Frequency Response:	180 Hz to 13 kHz, ± 3 dB at 1% max. THD
Signal-to-Noise Ratio:	65 dB (typical) transmitted
Transmit Antenna:	Integral with microphone cord
Microphone:	Electret type, 3.5 mm mono plug
External Display:	OLED for status and menu information. Status: Ch/Freq, Mic Audio Level, Auxiliary Input Audio Level, Battery Status, Mic Mute, Channel Lock, Dual-Preset mode. Menu: Ch/Freq display mode select, Volume, Aux Input, Compression, 17 or 8-channel mode, screen time out, screen brightness, restore default settings
External Controls:	Momentary push button: push and hold 3 seconds for power On/Off, push and release for microphone mute On/Off. "Up", "Down" and "Menu" buttons for accessing and changing transmitter settings. Battery type switch (Alkaline or NiMH) located behind the battery compartment door
External Indicators:	Power LED - Green, flashes when battery is low
Mic Input:	3.5 mm mono jack with electret mic bias, adjustable gain with 25 dB range
Aux Input:	2.5 mm stereo jack, adjustable gain with 60 dB range
Audio Compression:	1:1 (off) or 2:1 (on) selectable in menu
Compatible Receivers:	PFM R33, PFM R36, PPA R35, PPA R37, PPA R35-8, PPA R1600,
Approvals/Directives:	FCC, Industry Canada, RoHS, WEEE
Warranty:	Lifetime PLUS Limited Warranty, 90 Days on most accessories.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

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

Hearing Helper FM Tour Guide System

PPA R37-8 Receiver



Dimensions:	4.1" x 2.85" x 1.38" (104 x 72 x 35 mm)
Weight:	4.6 oz (130 g) with batteries. 2.6 oz (73 g) without batteries
Color:	Black
Battery Type:	(2) AA Alkaline or (2) x AA NiMH
Battery Life:	Two AA non-rechargeable alkaline batteries (BAT 001-2), approx. 50 hrs, or two AA rechargeable NiMH batteries (BAT 026-2), 1500 mAh, approx. 32 hrs
Current Consumption:	42 mA nominal
Temperature Range:	- 0 to 50 °C
Channels:	8, accessed via rotary knob on top of unit
Operating Frequencies:	72.1, 72.3, 72.6, 72.8, 74.7, 75.4, 75.7, 75.9 MHz
Modulation:	FM, +/- 75 kHz peak deviation
De-Emphasis:	75 μS
LED Indicator:	Power: Green; Low Battery: Flashes Green; Sleep mode: Fade-on, Fade-off
Sensitivity:	2 μV at 12 dB Sinad with squelch defeated
Input Overload:	100 mV
Frequency Response:	200 – 15 kHz
Signal-to-Noise Ratio:	65 dB min @ 100 uV
Receive Antenna:	Integral with earphone/headphone cord
Audio Output:	35 mW max, peak into 16 Ω
Output Connector:	3.5 mm stereo/mono phone jack
Included Earphone:	Earbud-type with foam cushion, 3.5 mm plug, 32 Ω
Sleep Mode:	Enters sleep mode after approximately 6 mins of no RF signal, returns to normal operation when a transmitter is re-established on same channel
Approvals:	FCC, Industry Canada, RoHS, WEEE
Warranty:	Lifetime PLUS Limited Warranty (90 Days on most accessories)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

Hearing Helper FM Tour Guide System

Architectural/Engineering Specifications

PPA T46

The PPA T46 is a wide-band body-pack transmitter and shall operate on 17 selectable frequencies between 72MHz and 76MHz. It shall operate for up to 30 hrs with two AA Alkaline batteries and be housed in a black plastic enclosure. It shall have battery recharge ability utilizing Williams AV drop-in chargers.

The T46 shall have a 3.5 mm microphone jack and a 2.5 mm auxiliary audio input jack. The microphone cord will serve as the transmitting antenna. It shall have three buttons on the front to access channel select, master and aux gain, compression on/off, channel lock and screen adjustments. There shall be an OLED screen on the front of the T46 displaying current operating status and menu information.

The T46 shall have the ability to operate in dual channel mode whereby the user can switch between two different transmitting channels, each with its own set-up parameters.

There shall be a power switch which also serves as a microphone mute control on the top bezel of the transmitter.

The T46 shall have wide band modulation at 75 KHz peak with a frequency response of 200 Hz to 16 KHz.

The PPA T46 shall be covered under a limited lifetime parts and labor warranty.

This transmitter shall be the Williams AV model PPA T46.

PPA R37-8

The receiver shall be encased in black, PC/ABS impact-resistant plastic with a hinged battery door.

The receiver shall be a body-pack style and include a detachable belt-clip for hands-free operation.

The receiver shall have a 3.5 mm stereo jack to accommodate stereo or mono, low impedance earphones, headphones and neckloops.

The receiver shall have a combination volume control with power on/off rotator dial. It shall have a green LED indicating battery and system status codes.

The receiver shall have access to 8 preset wideband channels between 72-76 MHz. Channel selection shall be made by rotating a channel selector knob.

The receiver shall have a slide switch inside the battery compartment to select disposable Alkaline or NiMH rechargeable battery operation. It shall have charger contacts on the bottom of the receiver for use with Williams AV drop-in chargers CHG 3512 and CHG 3502.

The receiver shall operate up to 50 hours with two disposable AA Alkaline batteries (BAT 001-2) and up to 32 hours with two AA NiMH rechargeable batteries (BAT 026-2).

The receiver shall provide a maximum output of 35 mW at 16 Ω with an earbud type earphone. The receiver's audio frequency response shall be 200 Hz to 15 kHz \pm 3 dB and the signal to noise ratio shall be 65 dB min. The receiver sensitivity shall be 2 μ V or better at 12 dB Sinad with squelch defeated. The receiver shall accept up to \pm 75 kHz FM deviation and have a 75 μ s de-emphasis time constant.

The receiver shall have FCC, Industry Canada approvals and be compliant with RoHS and WEEE regulations. The receiver shall be covered by a Lifetime PLUS Limited Warranty.

This receiver model shall be the Williams AV model PPA R37-8.

***DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE**

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

Domestic Sales

Williams AV
10300 Valley View Rd
Eden Prairie, MN 55344
Ph: 800-328-6190 / 952-943-2252
FAX: 952-943-2174
Email: info@williamsav.com
Web: www.williamsav.com

International Sales

International Sales Department
Williams AV
10300 Valley View Rd
Eden Prairie, MN 55344 USA
Phone: +1 952 943 2252
Fax: +1 952 943 2174
Email: info@williamsav.com
Web: www.williamsav.com

WILLIAMS AV
info@williamsav.com / www.williamsav.com
800-843-3544 / INTL: +1-952-943-2252