

FM SPECIFICATION DATA

Group Sight-Seeing Tours • Factory and Plant Tours • College Campus Tours • Museum Tours  
• Cruise Ships • Special Events • Employee Training

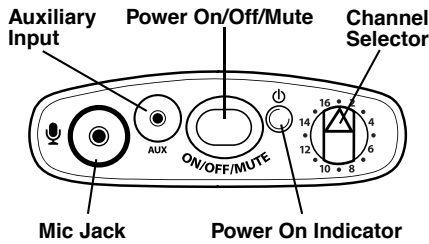
# TGS PRO 737

Personal PA® Tour Guide System

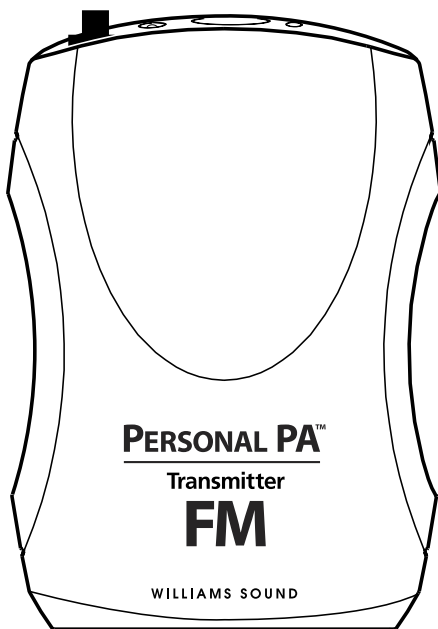


The Personal PA® Tour Guide System, model TGS PRO 737, helps tour group members with hearing difficulties overcome background noise and distance from the guide. Use it in factories, museums, power plants—anywhere hearing assistance is needed. System includes one (1) T36 transmitter with MIC 100 microphone, ten (10) PPA R37 receivers, batteries and system carry case. System operates on 72-76 MHz bandwidth for hearing assistance.

# Personal PA® Tour Guide System



**T36 Top**



**T36 Front**

<b>Dimensions:</b>	4.1" L x 2.8" W x 1.1" H (104 mm x 71 mm x 28 mm)
<b>Weight:</b>	2.6 oz (74 g), no batteries
<b>Color:</b>	Black, shatter-resistant PC/ABS plastic
<b>Battery Type:</b>	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 3502 or CHG 3512 Charger
<b>Operating Freq's:</b>	Selectable, 16 channels, 72.1 – 75.9 MHz* (channels 1-8 correspond with R35-8 receiver channels and PPA R1600)
<b>Stability:</b>	± .005%, frequency synthesized, crystal reference, PLL
<b>Modulation:</b>	Wide-band FM, 75 kHz pk, 75 μS pre-emphasis
<b>RF Output:</b>	80 mV/m at 3 m (max. allowed by FCC rules)
<b>Freq Response:</b>	200 Hz to 13 kHz, ± 3 dB at 1% max. THD
<b>Signal-to-Noise Ratio:</b>	65 dB (typical) transmitted
<b>Transmit Antenna:</b>	Integral with microphone cord
<b>Microphone:</b>	Electret type, 3.5 mm mono phone plug
<b>External Controls:</b>	Momentary push button: push and hold 3 seconds for power On/Off, push and release for microphone mute On/Off; Rotary sixteen channel switch (with internal channel lock switch)
<b>Mic Input:</b>	3.5 mm mono phone jack with electret mic bias, internal adjustable gain with 25 dB range
<b>Aux Input:</b>	2.5 mm stereo phone jack, internal adjustable gain with 60 dB range
<b>Audio Compression:</b>	1:1 or 2:1 ratio selected with internal slide switch
<b>Compatible Receivers:</b>	PFM R31, PFM R32, PFM R33, PFM R36, PPA R37, PPA R35-8, PPA R1600
<b>Approvals/Directives:</b>	FCC, Industry Canada, RoHS, WEEE
<b>Warranty:</b>	5 years, parts and labor (90 days on accessories)

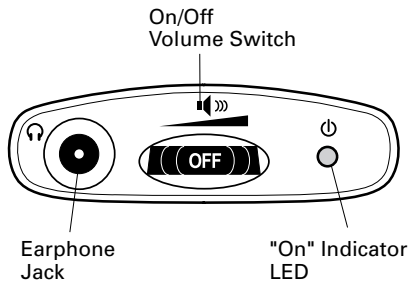
**NOTE: FCC REGULATIONS, SECTION 15.21, REQUIRES THE USER TO COMPLY WITH THE RULES OF TRANSMITTER OPERATION. ANY CHANGES OR MODIFICATIONS MADE BY THE USER NOT EXPRESSLY APPROVED FOR COMPLIANCE MAY RESULT IN THE LOSS OF ALL PRIVILEGES AND AUTHORITY TO OPERATE THE EQUIPMENT**

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

# Personal PA® Tour Guide System

## PPA R37 Receiver

PPA R37 is a 17-channel receiver operating on the 72-76 MHz bandwidth. Features include: seek-button channel selection, channel-lock capability, battery-saving sleep mode, on/off volume control, power/low battery indicator and stereo/mono earphone jack.



**R37 Top**



**R37 Front**

<b>Dimensions:</b>	4.1" L x 2.85" W x 1.38" D (104 mm x 72 mm x 35 mm)
<b>Weight:</b>	4.6 oz (130 g) with batteries, 2.6 oz w/o batteries (73g)
<b>Color:</b>	Black
<b>Battery Type:</b>	Two (2) AA non-rechargeable alkaline batteries (BAT 001), approx. 48 hours battery life, or Two (2) AA rechargeable NiMH batteries (BAT 026), 1600 mAh, approx 30 hours battery life
<b>Current Consumption:</b>	Nominal 52 mA
<b>Operating Freq.:</b>	17 channels: 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 74.7, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8 or 75.9 MHz*
<b>FM Deviation:</b>	+75 kHz
<b>De-Emphasis:</b>	75 µS
<b>LED Indicator:</b>	Power: Bright Green. Low Battery: Flashes.
<b>Sensitivity:</b>	2 µV at 12 dB Sinad with squelch defeated
<b>Input Overload:</b>	100 mV
<b>Frequency Response:</b>	200 Hz to 15 kHz, ± 3 dB
<b>Signal-to-Noise Ratio:</b>	65 dB at 100 µV
<b>Receiver Antenna:</b>	Integral with earphone/headphone cord
<b>Audio Output:</b>	35 mW, max. 16 ohm load
<b>Output Connector:</b>	3.5 mm stereo phone jack, accepts either stereo or mono plug
<b>Approvals:</b>	FCC, Industrie Canada, RoHS, WEEE
<b>Warranty:</b>	5 years, parts and labor. (90 days on accessories)

**\*DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO "AUDITORY ASSISTANCE FOR THE HANDICAPPED."**

**THIS DEVICE COMPLIES TO "RSS-GEN ISSUE 2 JUNE 2007" FOR INDUSTRY CANADA AND FCC PART 15.105(B) FOR THE UNITED STATES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION OF THE DEVICE.**

**THIS DEVICE COMPLIES WITH ICES-003 CLASS B. TEST DATA IS AVAILABLE FROM THE MANUFACTURER ON REQUEST.**

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

# Personal PA<sup>®</sup> Tour Guide System

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## Bid Specs

### PPA T36

The PPA T36 is a wide band body-pack transmitter and shall operate on 16 selectable frequencies between 72MHz and 76MHz. It shall operate for up to 30 hrs with two AA Alkaline batteries and shall be housed in a black plastic enclosure. The T36 shall have a 3.5 mm microphone jack and a 2.5 mm auxiliary audio input jack. The T36 shall have access to channel select, compression on/off, channel lock, master gain and aux gain inside the battery compartment. There shall be a power switch which also serves as a microphone mute control on the top bezel of the transmitter.

The T36 shall have wide band modulation at 75kHz peak with a frequency response of 200Hz to 13kHz. The transmitting antenna shall be integrated into the microphone cable.

The PPA T36 shall be covered under a five year parts and labor warranty. This transmitter shall be the Williams Sound PPA T36.

### PPA R37 Receiver:

The PPA R37 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. Receiver shall have a 3.5mm stereo/mono jack to accommodate stereo or mono low impedance earphones, headphones and neckloops. Receiver shall have a combination volume control with power on/off rotary dial. It shall have a green LED indicating battery and system status codes. The PPA R37 shall have access to 17 wideband channels between 72-76MHz. Channel selection shall be made by pushing the seek button inside the battery compartment. Receiver shall have channel-lock capability.

Receiver shall have a slide switch inside the battery compartment to select Alkaline or rechargeable NiMH rechargeable battery operation. It shall have charger contacts on the bottom of the receiver for use with Williams Sound drop-in chargers CHG 3512 and CHG 3502. The PPA R37 shall operate up to 48 hrs with two AA Alkaline batteries, and up to 30 hrs with two AA NiMH rechargeable batteries (BAT 026).

Receiver shall provide a maximum out of 35mW at 16 ohms with an earbud-type earphone. The system's audio frequency response shall be 200Hz to 15kHz  $\pm$  3dB and the signal-to-noise ratio shall be 65dB min. The receiver sensitivity shall be 2 $\mu$ V or better at 12dB Sinad with squelch defeated. The PPA R37 shall accept up to  $\pm$ 75kHz FM deviation and have a 75 $\mu$ s de-emphasis time constant.

The PPA R37 shall have FCC, Industry Canada approvals and be compliant with RoHS and WEEE regulations. The receiver shall be covered by a five-year parts and labor warranty, excluding earphones, headphones and batteries.

### Domestic Sales

Williams Sound  
10300 Valley View Rd.  
Eden Prairie, MN 55344  
Ph: 800-328-6190 / 952-943-2252  
FAX: 952-943-2174  
Email: [info@williamssound.com](mailto:info@williamssound.com)  
Web: [www.williamssound.com](http://www.williamssound.com)

### International Sales

International Sales Department  
Williams Sound  
10300 Valley View Rd.  
Eden Prairie, MN 55344 USA  
Phone: +1 952 943 2252  
Fax: +1 952 943 2174  
Email: [info@williamssound.com](mailto:info@williamssound.com)  
Web: [www.williamssound.com](http://www.williamssound.com)



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