

PPA 377 PRO

Personal PA® FM Listening System



The Personal PA® 377 PRO ensures people in your facility receive direct, clear communication of your message. Offers the same great features as the PPA 377 plus the convenience of a coaxial cable and rack panel kit for professional installation. Push-button menu controls make the system easy to set up and use. With professional sound features and an operating range of up to 1000 feet, the PPA 377 PRO is ideal for large venues where superior coverage is essential. This complete turnkey solution includes four PPA Select receivers (PPA R37), each featuring seek-button channel selection with access to 17 pre-set wideband frequencies between 72-76 MHz. The system is expandable, accommodating any number of listeners. This system complies with 2010 ADA guidelines for hearing assistance and is covered by an industry-leading 5-year warranty.

System Includes:

- (1) PPA T35 Transmitter
 - (1) ANT 025 Whip Antenna
 - (1) WCA 013 Audio Cable
 - (1) TFP 016 Power Supply
- (4) PPA SELECT PPA (R37) Receivers
 - (4) EAR 013 single mini earbuds
 - (8) BAT 001 AA Alkaline Batteries
- (2) NKL 001 neckloops
- (1) ANT 005 Coaxial Antenna
- (1) RPK 005 Rack Panel Kit
- (1) IDP 008 Wall Plaque

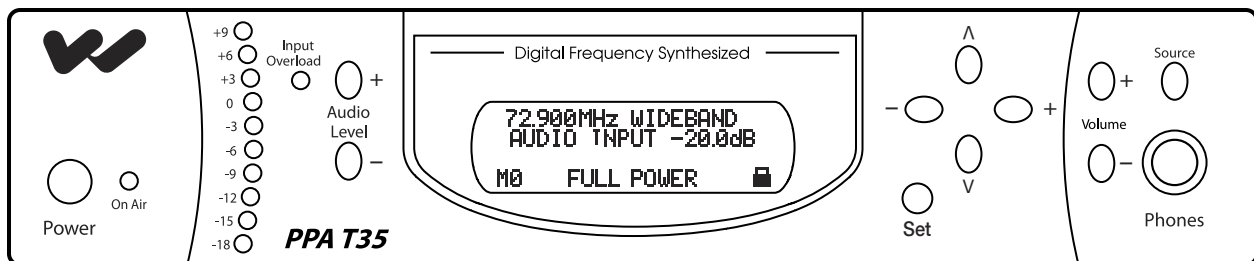
Optional 8-channel receivers (PPA R35-8N) are available for multi-channel applications.

Personal PA[®] FM Listening System

PPA T35 Transmitter:

Dimensions, Weight:	8.45" (21.5 cm) W x 8.18" (20.8 cm) D x 1.72" (4.4 cm) H, 3.1 lbs (1.4 kg)
Color:	Black with white legends
Rack Mount:	One EIA rack space high, 1/2 space wide 1-2 units can be mounted in a single rack space with optional RPK 005 (single) or RPK 006 (double) Rack Mount Kits
Power:	Wall mount Class II transformer (TFP 016) Input: 120 VAC, 60 Hz, 17 W Output: 24 VAC, 500 mA with 3-pin Molex [®] plug Approvals: UL, CSA listed
Temperature Range:	Operating: 0° C to 40° C (+32° F to +104° F) Storage: -20° C to 70° C (-4° F to +158° F)
Operating Freqs:	72.1-75.9 MHz*, 17 wideband channels (selectable), 72.025-75.975 MHz, 77 narrowband channels (selectable)
Frequency Accuracy:	±.005% stability, 0-50° C
Deviation:	Wideband: ± 75 kHz maximum. Narrowband: ± 5 kHz maximum.
Pre-Emphasis:	Wideband: 75 µsec. Narrowband: 300 µsec
RF Field Strength:	Does not exceed 80 mV/m at 3 m
Nominal Range:	Up to 1000 ft (304 m) Note: Maximum transmitter range is achieved using the ANT 005 coaxial antenna
Audio Proc. Functions:	Reduced or Normal Compressor Gain Compression Slope Control High Pass and Low Pass Filter Frequency control
Frequency Response:	22 – 16000 Hz, +1, -3 dB (adjustable)
Signal-to-Noise Ratio:	74 dB transmitted

T35 Front Panel:



A150

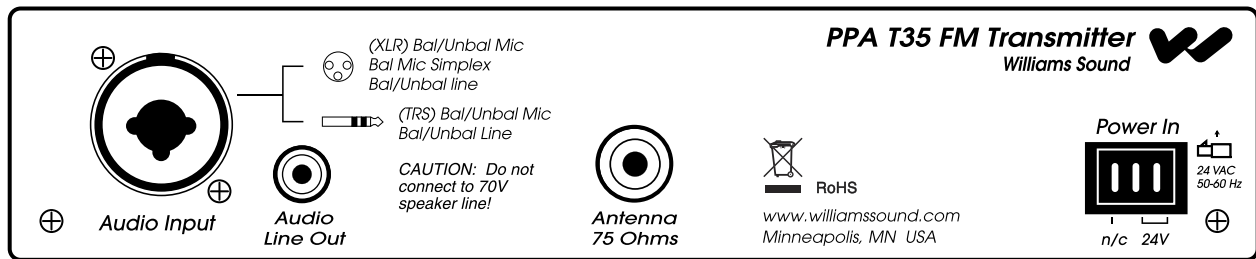
***DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE.**

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Personal PA[®] FM Listening System

Audio Level Control:	Push-button audio level controls, adjustable to 0 to -50 dB
Audio Level Indicators:	10 LED array that reads +9 to -18 at 3 dB intervals
Power On Indicator:	Green LED indicates power on
Phones Output:	Mono signal, 1/4" TRS stereo jack, 67 mW, maximum in 50 ohms (adjustable 0 to -40 dB)
Audio Input:	Combination 3-pin XLR, 1/4" TRS jack
Line Output:	RCA jack, -10 dBV (.32 VRMS) output, impedance 100 Ω
LCD Menu Controls:	Applications Presets (Music, Voice, Hearing Assist)
(Push-Button Selection)	Bandwidth, Frequency, Audio Input Source (Microphone, Line, Simplex), High Pass Filter, Low Pass Filter, Compressor Slope, Compressor Gain, RF Output Power

T35 Rear Panel:



A151

Input Levels (Bal or Unbal):	Nominal (1st Amber LED)	Maximum (Input Overload LED)	Absolute Maximum Ratings**
Microphone Simplex-Mic:	-60dBV (1 mV RMS)	-20 dBV (100 mV RMS)	+20dBV (10.0 V RMS)
Line:	-8dBV (400 mV RMS)	+16 dBV (6.3 V RMS)	+20 dB V (10.0 V RMS)
Simplex Mode:	12 volts simplex power (DIN 45596) on the 3-pin XLR connector		
RF "Off" Timer:	Turns off RF signal after 1 hour of no audio activity		
Common Mode Rejection:	> 57 dB @ 1 kHz, Mic or Line		
Total Harmonic Distortion:	< 0.25% @ -10 dB V audio line output, 1 kHz		
Approvals:	FCC, RoHS, WEEE		
Warranty:	5 years, parts and labor*		

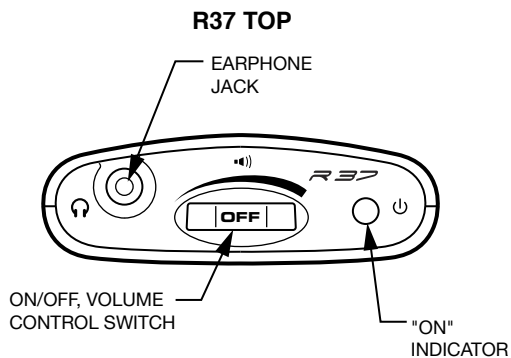
****Note: Stresses above these ratings may cause permanent damage. Exposure for extended periods may degrade reliability.**

***90 DAYS ON ACCESSORIES.**

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PPA R37 Receiver:



Dimensions:	4.1" L x 2.85" W x 1.38" D (104 mm x 72 mm x 35 mm)
Weight:	4.6 oz (130 g) with batteries, 2.6 oz w/o batteries (73g)
Color:	Black
Battery Type:	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
Current Consumption:	Nominal 52 mA
Operating Freq.:	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*
FM Deviation:	+75 kHz
De-Emphasis:	75 μ S
LED Indicator:	Power: Bright Green. Low Battery: Flashes.
Sensitivity:	2 μ V at 12 dB Sinad with squelch defeated
Input Overload:	100 mV
Frequency Response:	200 Hz to 15 kHz, \pm 3 dB
Signal-to-Noise Ratio:	65 dB at 100 μ V
Receiver Antenna:	Integral with earphone/headphone cord
Audio Output:	35 mW, max. 16 ohm load
Output Connector:	3.5 mm stereo phone jack, accepts either stereo or mono plug
Approvals:	FCC, Industrie Canada, RoHS, WEEE
Warranty:	Five years, parts and labor. 90 days on cords, earphones, headphones, batteries and other 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 undesired operation of the device.

This device complies with ICES-003 class B. Test data is available from the manufacturer on request.

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Personal PA[®] FM Listening System

Architectural and Engineering Specifications

PPA T35 Transmitter

The PPA T35 transmitter shall be microprocessor controlled with push button configuration. It shall have an operating range of up to 1000 feet. It shall have 17 wideband channels operating on 72.1–75.9 MHz. It shall have 77 narrowband channels operating on 72.025–75.975 MHz.

Front Panel:

The PPA T35 shall have a push button controlled LCD digital display. There shall be three pre-configured (selectable) application presets: Hearing Assist, Music and Voice. Configurations for Bandwidth, Frequency, Audio Input Source (Microphone, Line, Simplex), High Pass Filter, Low Pass Filter, Compressor Slope, Compressor Gain and RF Output Power shall be push button controlled. The audio level shall be adjustable by push button control. There shall be a 10 LED array showing audio level from +9 to -18 at 3dB intervals. The PPA T35 shall have a 1/4" phone jack with push button volume control. It shall have push button control for monitoring source audio or transmitted audio. It shall have an input overload indicator. It shall have an "on" indicator and power button.

Rear Panel:

The PPA T35 shall be powered by 24 VAC power supply via a 3-pin Molex[®] connector. It shall have a 75 ohm F-connector antenna. It shall have an ANT 025 whip antenna on the top panel directly connected to the circuit board. The transmitter shall have an RCA line output jack. It shall have a combination 1/4" phone/XLR audio input jack. It shall have an RF "Off" timer that turns off RF signal after 1 hour of no audio activity.

The PPA T35 shall have FCC, be compliant with RoHS and WEEE regulations and be powered by UL and CSA power supply. It shall have a 5-year parts and labor warranty*. It shall be compatible with Williams Sound FM equipment operating on 72-76 MHz. The transmitter shall be a Williams Sound model number PPA T35.

***90 DAYS ON ACCESSORIES.**

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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 μ V or better at 12dB Sinad with squelch defeated. The PPA R37 shall accept up to \pm 75kHz FM deviation and have a 75 μ s de-emphasis time constant.

The PPA R37 shall have FCC, Industrie Canada approvals and be compliant with RoHS and WEEE regulations. The receiver shall be covered by a five-year parts and labor warranty*.

This receiver model shall be the Williams Sound model PPA R37.

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HELPING PEOPLE HEAR

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