

Theaters • Cinemas • Houses of Worship • Classrooms • Zoos • Any Place of Public Access

# FM ADA Kit 1

Large Area Value Kit



This transmitter broadcasts a speaker's voice, music program, or audio service wirelessly up to 1000 feet to a listening audience. Meets new 2010 ADA access requirements.

**System includes:**

- (1) PPA T27 transmitter with antenna (ANT 021) and power supply (TFP 036)
- (2) PPA SELECT™ (PPA R37) receivers (batteries included)
- (2) EAR 013 earphones
- (2) NKL 001 neckloop
- (1) IDP 008 ADA wall plaque

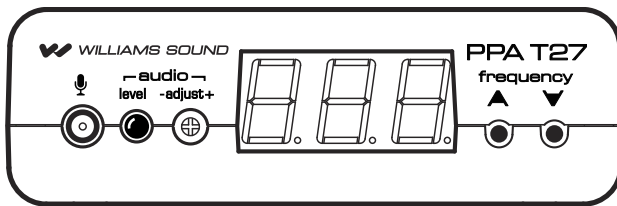
# FM ADA Kit 1 • Large Area Value Kit

## PPA T27 Transmitter:

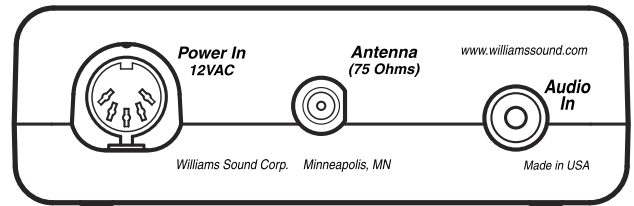
<b>Dimensions &amp; Weight:</b>	4.1" W x 6.1" L x 1.3" H (104.1 mm x 154.9 mm x 33 mm) 7.8 oz. (221 g)
<b>Color:</b>	Black
<b>Power (U.S./Canada):</b>	105-130 VAC, 50-60 Hz, 3.2 W at 120 VAC
<b>Operating Frequencies:</b>	72-76 MHz*: 72.1 (CH A), 72.2 (CH K), 72.3 (CH B), 72.4 (CH N), 72.5 (CH C), 72.6 (CH O), 72.7 (CH D), 72.8 (CH P), 72.9 (CH E), 74.7 (CH I), 75.3 (CH J), 75.4 (CH R), 75.5 (CH F), 75.6 (CH S), 75.7 (CH G), 75.8 (CH T), 75.9 (CH H)
<b>Frequency Selector:</b>	External switches, 17 channels (lockable)
<b>RF Field Strength:</b>	Does not exceed 80mV/m @ 3m
<b>Nominal Range:</b>	Up to 1000 feet (305 m) w/standard ANT 021 "rubber duckie" antenna or optional ANT 005 coaxial antenna.
<b>Modulation:</b>	FM, 75 kHz deviation (wide-band) max.
<b>Stability:</b>	± .005% over 0-50°C
<b>Pre-Emphasis:</b>	75 µS
<b>Frequency Response:</b>	85Hz - 14kHz ±3dB
<b>Distortion:</b>	1% Max. THD
<b>Signal to Noise Ratio:</b>	65 dB with R35 Receiver
<b>Microphone Input:</b>	3.5mm mini phone jack, supplies +DC for electret mics
<b>Mic Input Level:</b>	1-10 mV, nominal
<b>Line-Level Input:</b>	RCA Jack, Hi Z, unbal.
<b>Line Input Level:</b>	.1-1 Vrms, nominal
<b>Input Attenuator:</b>	Pot, screwdriver-adjustable
<b>Antenna Outputs:</b>	Thread mount for ANT 021 "rubber duckie" antenna or ANT 025 telescoping antenna RF connector for ANT 024 dipole or ANT 005 coaxial antenna
<b>Approvals:</b>	FCC, Industry Canada, RoHS, WEEE
<b>Warranty:</b>	Five years, parts and labor. 90 days on cords, earphones, headphones, batteries and other accessories

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

### PPA T27 Front Panel:



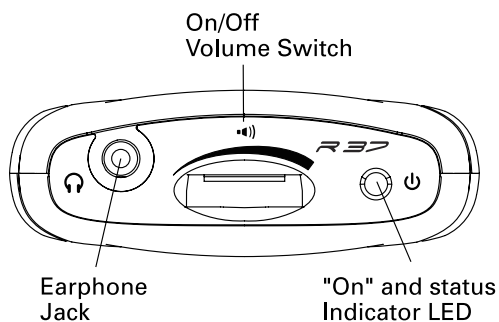
### PPA T27 Rear Panel:



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

# Large Area Value Kit

## PPA Select™ Receiver



<b>Dimensions:</b>	4.1" x 2.85" x 1.38" (104 x 72 x 35mm)
<b>Weight:</b>	4.6oz (130g) with batteries. 2.6oz (73g) without batteries
<b>Color:</b>	Black
<b>Battery Type:</b>	(2) AA Alkaline or 2 x AA NiMH
<b>Battery Life:</b>	Two (2) AA non-rechargeable alkaline batteries (BAT 001), approx. 50 hrs (2) AA rechargeable NiMH batteries (BAT 026), 1500 mAh, approx. 32 hrs
<b>Current Consumption:</b>	52mA nominal
<b>Temperature Range:</b>	- 0 to 50C
<b>Channels</b>	17, accessed via seek button in battery compartment
<b>Operating Freq.:</b>	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, 75.9 MHz*
<b>Intermediate Freq.:</b>	75 kHz
<b>FM Deviation:</b>	75 kHz
<b>De-Emphasis:</b>	75 µS
<b>LED Indicator:</b>	Power: Green; Low Battery: Flashes Green
<b>AFC Range:</b>	± 120 kHz
<b>Sensitivity:</b>	2 µV at 12 dB Sinad with squelch defeated
<b>Input Overload:</b>	100 mV
<b>Frequency Response:</b>	200 – 15 kHz
<b>Modulation:</b>	FM, +/- 75 kHz peak deviation
<b>Signal-to-Noise Ratio:</b>	65 dB min @ 100 uV
<b>Receive Antenna:</b>	Integral with earphone/headphone cord
<b>Audio Output:</b>	35 mW max, peak into 16 ohms
<b>Output Connector:</b>	3.5 mm stereo/mono phone jack
<b>Earphone:</b>	Earbud-type with foam cushion, 3.5 mm plug, 32 Ω
<b>Auto Shut-off</b>	Enters sleep mode after approx 6 mins of no RF signal
<b>Approvals:</b>	FCC, Industry Canada, RoHS, WEEE
<b>Warranty:</b>	Five years, parts and labor. 90 days on cords, earphones, headphones, batteries and other accessories

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# Large Area Value Kit

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## Bid Specs:

### PPA T27 Transmitter

The Williams Sound PPA T27 shall be housed in a heavy duty black plastic case 4.1" x 6.1" x 1.3". It shall be microprocessor controlled with push button configuration. It shall have an operating range of up to 1000ft. It shall have seventeen wideband channels operating on the hearing assistance bandwidth between 72 MHz to 76 MHz. There shall be a 'rubber duckie' antenna output through the top of the enclosure.

### Front Panel:

The front panel shall have a push button controlled LED digital display showing the frequency selection. Once a frequency is selected, there shall be a lock or unlock feature by holding down both the up and down frequency buttons for three seconds. There shall be a 3.5mm mono microphone input jack for two wire electret microphones. It shall have a rotary input level control. There shall be up and down frequency select buttons.

### Back panel:

The PPA T27 shall be powered by a 24VAC power supply via a 5 pin DIN connector. It shall have a 75 Ohm F-connector antenna output. It shall have a Line-level, high impedance RCA, mono/unbalanced input.

The PPA T27 shall have FCC, Industry Canada approvals, be compliant with RoHS and WEEE regulations, and be powered by a UL and CSA approved power supply. It shall have a 5 year parts and labor warranty. It shall be compatible with Williams Sound FM equipment operating on 72 MHz to 76 MHz. The Transmitter shall be the Williams Sound model number PPA T27.

### PPA R37

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. The receiver shall have a 3.5mm stereo/mono 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 R37 shall have access to 17 preset wideband channels between 72-76MHz. Channel selection shall be made by pushing the seek button inside the battery compartment. The receiver shall have channel-lock capability.

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 Sound drop-in chargers CHG 3512 and CHG 3502. The R37 shall operate up to 50 hours with two disposable AA Alkaline batteries and up to 32 hours with two AA NiMH rechargeable batteries (BAT 026).

The receiver shall provide a maximum out of 35mW at 16 $\Omega$  with an earbud type earphone. The systems 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 R37 shall accept up to  $\pm$ 75kHz FM deviation and have a 75  $\mu$  s de-emphasis time constant.

The 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.

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

### 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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