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# FM ADA KIT 37

## FM ADA Compliance Kit

The Williams Sound FM ADA Kit 37 provides everything you need to accommodate individuals for hearing accessibility in a small-group setting. This portable, easy-to-use FM system operates on one of 17 selectable channels, 72-76 MHz, at a range of up to 150 feet.

**System includes:**

- (1) PPA T46 transmitter
- (4) PPA R37 receivers
- (4) HED 027 headphones
- (2) NKL 001 neckloops
- (1) MIC 090 lavalier microphone
- (1) MIC 049 desktop conference microphone
- (1) CCS 029 carry case
- (10) AA batteries
- (1) IDP 008 ADA wall plaque

# FM ADA Compliance Kit

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## **PPA T46 FM Transmitter**

### **Architectural/Engineering Specifications**

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 with an aluminum faceplate. It shall have battery recharge ability utilizing Williams Sound 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. The T46 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 channel presets, each with its own set-up parameters (channel, master volume, aux volume).

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 FM modulation at 75 KHz peak with a frequency response of 180 Hz to 13 KHz.

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

This transmitter shall be the Williams Sound model PPA T46.

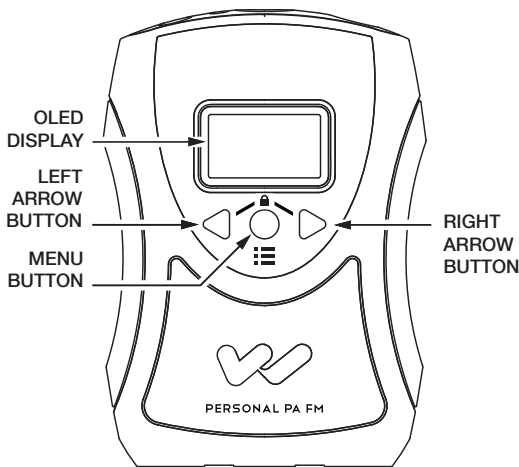
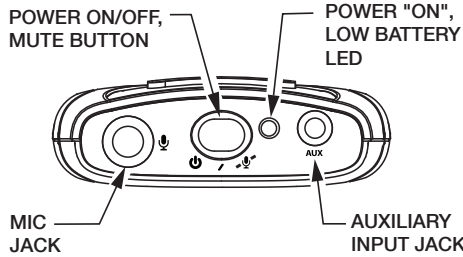
**NOTE: FCC REGULATIONS, SECTION 15.21, REQUIRES THE USER TO COMPLY WITH THE RULES OF TRANSMITTER OPERATION. ANY CHANGES OR MODIFICATIONS MADE BY THE USER NOT EXPRESSLY APPROVED FOR COMPLIANCE MAY RESULT IN THE LOSS OF ALL PRIVILEGES AND AUTHORITY TO OPERATE THE EQUIPMENT**

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

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

# FM ADA Compliance Kit

## PPA T46 FM Transmitter Specifications



<b>Dimensions:</b>	4.1" L x 2.8" W x 1.1" D (104 mm x 71 mm x 28 mm)
<b>Weight:</b>	2.6 oz (74 g), no batteries
<b>Color:</b>	Black/Silver
<b>Enclosure Material:</b>	Shatter-resistant PC/ABS plastic with textured scratch-resistant aluminum faceplate
<b>Battery Type:</b>	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
<b>Operating Frequencies:</b>	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)
<b>Stability:</b>	± .005%, frequency synthesized, crystal reference, PLL
<b>Modulation:</b>	Wide-band FM, 75 kHz peak, 75 μS pre-emphasis
<b>RF Output:</b>	80 mV/m at 3 m (max. allowed by FCC rules)
<b>Frequency Response:</b>	180 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 plug
<b>External Display:</b>	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
<b>External Controls:</b>	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
<b>External Indicators:</b>	Power LED - Green, flashes when battery is low
<b>Mic Input:</b>	3.5 mm mono jack with electret mic bias, adjustable gain with 25 dB range
<b>Aux Input:</b>	2.5 mm stereo jack, adjustable gain with 60 dB range
<b>Audio Compression:</b>	1:1 (off) or 2:1 (on) selectable in menu
<b>Compatible Receivers:</b>	PFM R31, PFM R32, PFM R33, PFM R36, PPA R35, PPA R37, PPA R35-8, PPA R1600,
<b>Approvals/Directives:</b>	FCC, Industry Canada, RoHS, WEEE
<b>Warranty:</b>	Lifetime PLUS Limited Warranty, 90 Days on most accessories.

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# FM ADA Compliance Kit

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## **PPA R37 FM Receiver**

### **Architectural/Engineering Specifications**

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 Lifetime PLUS Limited Warranty, 90 Days on most accessories.

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

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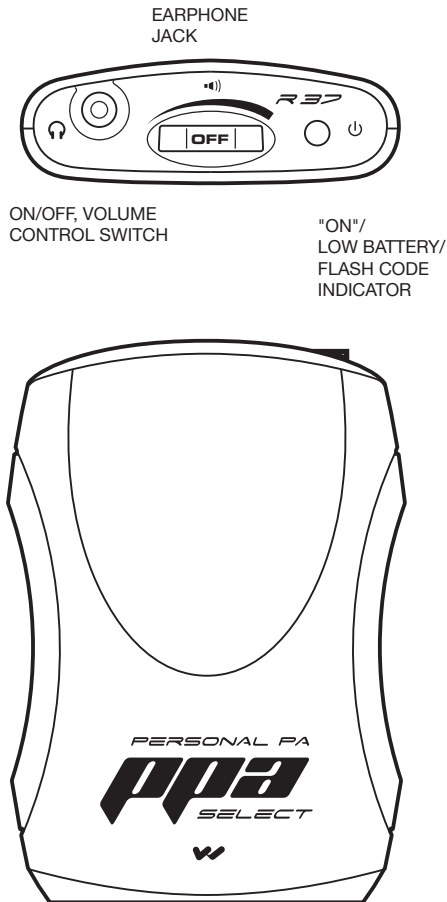
**THIS DEVICE COMPLIES TO "RSS-GEN ISSUE 2 JUNE 2007" FOR INDUSTRY CANADA AND FCC PART 15.105(B) FOR THE UNITED STATES.**

**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.**

# FM ADA Compliance Kit

## PPA R37 Receiver Specifications



<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 $\mu$ S
<b>LED Indicator:</b>	Power: Bright Green. Low Battery: Flashes.
<b>Sensitivity:</b>	2 $\mu$ V at 12 dB Sinad with squelch defeated
<b>Input Overload:</b>	100 mV
<b>Frequency Response:</b>	200 Hz to 15 kHz, $\pm$ 3 dB
<b>Signal-to-Noise Ratio:</b>	65 dB at 100 $\mu$ V
<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>	Lifetime PLUS Limited Warranty, 90 Days on accessories.

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