



MANUAL AND USER GUIDE

Personal PA[®] Value Pack System

Wide-Band FM Wireless Listening System

Model PPA VP 37

Transmitter Model PPA T27

Receiver Model PPA R37

Optional Receiver Model PPA R35-8

PERSONAL PA® VALUE PACK SYSTEM (MODEL PPA VP 37)

INSTALLATION GUIDE & USER MANUAL

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SYSTEM OVERVIEW

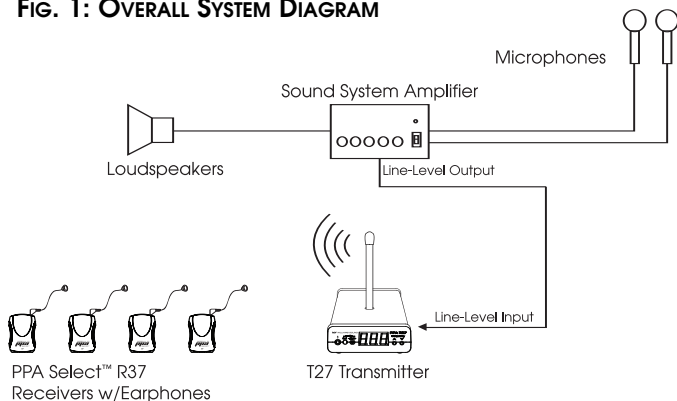
Thank you for purchasing the Personal PA Value Pack System from Williams Sound. The PPA VP 37 System is a Wideband FM Listening System which operates in the 72-76 MHz frequency band. Designed for hearing assistance in places of public access, the PPA VP 37 is for those who need help overcoming background noise, reverberation, or distance from the sound source. The versatile PPA VP 37 is easily integrated with your existing sound system or can be used with a microphone as a stand-alone system.

The system has two principal parts: the T27 Transmitter and the PPA R37 Receiver. Much like a miniature radio station, the Transmitter and microphone pick up the sounds you want to hear and broadcast them over an FM radio signal. The receivers are used to pick up the broadcast up to 1000 feet (305 m).

To avoid difficulties, please read through these instructions as you begin to use the system. Then save the manual for questions that arise as you continue to use your Personal PA Value Pack System.

If you have any problems with this Williams Sound product, please call us toll-free at **1-800-843-3544**.

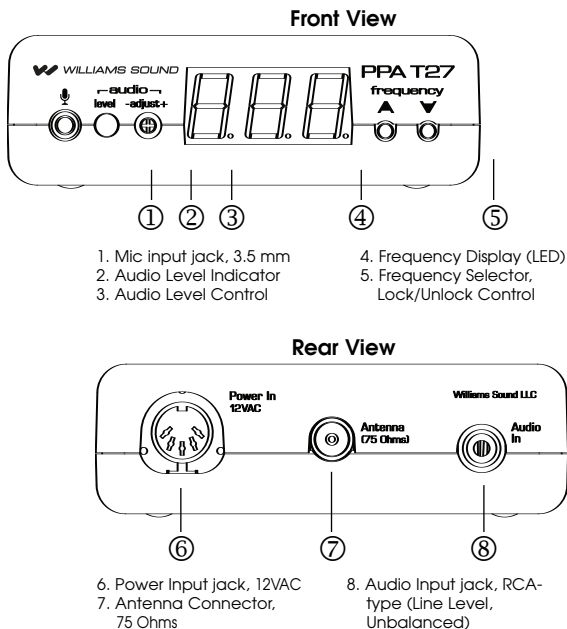
FIG. 1: OVERALL SYSTEM DIAGRAM



SETTING UP THE PPA VP 37

PPA T27 Transmitter Instructions

FIG. 2: FEATURES & CONTROLS



▶ **STEP 1: SELECT LOCATION**

Position the PPA T27 transmitter near the audio source (i.e. sound system, mixer) from which it will receive audio.

▶ **STEP 2: INSTALL THE ANTENNA**

Gently thread the ANT 021 rubber duckie antenna onto the stud recessed in the hole on the top of the transmitter. FCC rules allow only the use of antennas provided by Williams Sound. To use a remote antenna supplied by Williams Sound, the antenna cap may be removed by turning it counter-clockwise with a pliers or wrench. Please call customer service 800.843.3544 if you

have any questions.

▶ **STEP 3: CONNECT THE POWER**

Locate the TFP 036 power supply cord equipped with the 5-pin DIN connector, then plug the connector into the “Power In” jack located in the back of the T27. Plug the power supply into the AC outlet. On power up, the number “8” will scroll across the T27 display while the system initializes. The system will then display the default system frequency (72.9 MHz) *or* the last selected frequency set by the user.

▶ **STEP 4: SELECT THE FREQUENCY**

The T27 has 17 available channels in the 72-76 MHz band. By default, the T27 frequency is set to 72.9 MHz. To change the frequency on the T27, press and release the down “▼” or up “▲” frequency selector button until the desired frequency is displayed. After 3 seconds, the frequency selection will be set, and the audio will begin transmitting on the new frequency.

NOTE: You can **LOCK** this selection to prevent others from accidentally changing the frequency.

To **LOCK** the desired frequency, press and hold *both* down “▼” and up “▲” frequency selector buttons for 3 seconds until the word “Loc” appears on the display. The frequency is now *locked*. Should the user press the frequency selector button while in “Lock” mode, the word “Loc” will be displayed for 2 seconds.

To **UNLOCK** the desired frequency, press and hold *both* down “▼” and up “▲” frequency selector buttons for 3 seconds until the transmitter displays “Un” then “Loc” on the display. The frequency is now *unlocked*. The user is now free to change the frequency on the T27 as needed.

▶ **STEP 5: CONNECT THE AUDIO SOURCE**

On the back of the T27, an RCA-type “Audio In” jack is available for connecting a line-level, unbalanced audio source. On the front of the T27, a 3.5mm “Mic Input” jack is available to connect a Williams Sound electret microphone. Connect the desired audio source to the T27 transmitter and proceed to Step 6.

▶ **STEP 6: ADJUST THE AUDIO LEVEL**

With the audio source playing, use a small screwdriver or tuning wand to rotate the “Adjust” control on the front of the T27: 1) **clockwise to increase** the audio level; or 2) **counterclockwise to decrease** the audio level. Refer to the audio “Level” indicator LED on the front of the T27 as you make your adjustments:

Audio Level Indicator LED

- 1.) **Never On** = Audio source is **TOO LOW**.
- 2.) **Blinks occasionally** = Audio source is **OPTIMAL**.
- 3.) **Always on** = Audio source is **TOO HIGH**.

▶ **STEP 7: LISTEN WITH AN FM RECEIVER**

IMPORTANT: The FM receiver being used with the T27 transmitter will need to be on the same frequency as the transmitter.

Install the receiver batteries, plug in the earphone, turn on the receiver and walk around the listening area. The signal should be clear and quite loud when the volume is turned up. See pages 10-13 for detailed receiver instructions.

RECEIVER SAFETY INFORMATION

HEARING SAFETY:



The receiver is designed to amplify sounds to a high volume level which could potentially cause hearing damage if used improperly.

To protect your hearing and the hearing of others:

1. Make sure the volume is turned down before putting on the earphone or headphone before adjusting the volume to a comfortable level.
2. Set the volume level at the minimum setting that you need to hear.
3. If you experience feedback (a squealing or howling sound), reduce the volume setting and move the microphone away from the earphone or headphone.
4. Do not allow children **or other unauthorized persons** to have access to this product.

BATTERY SAFETY AND DISPOSAL:



The receiver may be supplied with alkaline batteries. Do not attempt to recharge alkaline batteries, which may explode, release dangerous chemicals, cause burns, or other serious harm to the user or product.

PACEMAKER SAFETY:



1. Before using the receiver with a pacemaker or other medical device, consult your physician or the manufacturer of your pacemaker or other medical device.
2. If you have a pacemaker or other medical device, make sure that you are using this product in accordance with safety guidelines established by your physician or the pacemaker manufacturer.

RECYCLING INSTRUCTIONS



Help Williams Sound protect the environment! Please take the time to dispose of your equipment properly.

Product Recycling for Customers in the European Union:

Please do NOT dispose of your Williams Sound equipment in the household trash. Please take the equipment to an electronics recycling center; OR, return the product to the factory for proper disposal.

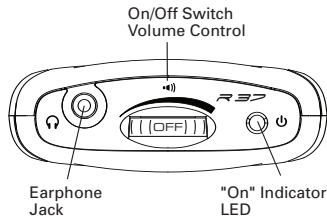
Battery Recycling for Customers in the European Union:

Please do NOT dispose of used batteries in the household trash. Please take the batteries to a retail or community collection point for recycling.

PPA R37 RECEIVER INSTRUCTIONS

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

FIG. 3



PPA R37 Top



PPA R37 Front

OPERATING THE RECEIVER

1. Insert two (2) AA batteries ensuring correct polarity. If rechargeable NiMH batteries are to be used with the receiver and a Williams Sound charger, make sure the Alkaline/NiMH

switch inside the battery compartment is set to NiMH before charging. See FIG 4.

2. Insert headphone, earphone or neck-loop into the stereo output jack.

3. Turn receiver on by turning up the volume control. The green power LED will turn on.

4. Press the Channel Seek button inside the battery compartment once to seek an active transmitter. See FIG 4. If more

than one transmitter is being used, you will need to push the seek button

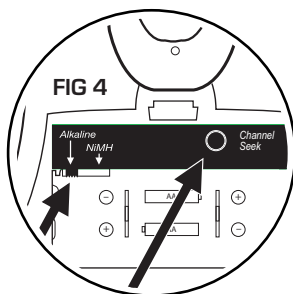
additional times until you locate the signal you want to hear. The receiver will retain the channel setting

when the unit is turned off.

5. To lock or unlock a selected channel, turn the power off.

While holding the seek button, turn the power back on. When

locked, the receiver will remain on the current channel, regardless of channel seek button presses.



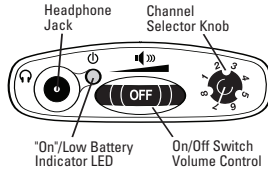
LED FLASH CODES

Light Code	Indicates	Description
1 blink	Channel locked	Seek press remains on current channel
2 blinks	Channel unlocked	Seek press tunes to next channel present
3 blinks	Channel unlocked; no other channels present	Seek press attempts to find another channel
On-Off-On-Off... (continuous)	Batteries are low	Batteries need to be replaced or recharged
Fade-on, Fade-off... (continuous)	No transmitter present on current channel	Sleep/Power Save mode (extends battery life)

RECEIVER MODEL PPA R35-8 (OPTIONAL)

The PPA R35-8 is an eight channel receiver, operating on 72-76 MHz bandwidth. It features a channel selection knob, on/off volume control, LED power and low battery indicator, and an ear-phone jack (See Figure 5A).

FIG. 5A



PPA R35-8 Top



PPA R35-8 Front

BATTERY INSTALLATION

Install two (2) AA alkaline or NiMH rechargeable batteries. Open the battery compartment by lifting the tab on the back of the receiver with a finger. To remove depleted batteries, pull up on the

fabric strip. **IMPORTANT:** If Alkaline (or non-rechargeable) batteries are being installed, slide the battery selection switch above the battery compartment to the “Alkaline” position. If installing NiMH (or rechargeable) batteries, slide the battery selection switch to the “NiMH” position. Press the batteries into place over the fabric strip. Be sure to observe proper polarity (+/-). Damage due to improper battery installation may void the warranty on the product. Close the battery door. When the sound becomes weak or distorted, replace or recharge the batteries. **NOTE:** The red LED “ON” indicator on top of the unit will flash to indicate low battery.

CONNECTING EARPHONES

Plug the earphone into the “Headphone” jack on the top of the unit. Only monophonic earphones will operate properly. If stereo headphones are used, sound will be heard only in one side. Williams Sound evaluates each earphone and headphone used with the PPA PPA R35-8 receiver; we can only assure optimum performance when Williams Sound earphones and headphones are used.

OPERATING THE RECEIVER

Turn the receiver on by rotating the Volume control knob. The ON indicator should illuminate RED. Refer to the channel selection chart in FIG. 5B to choose from 8 standard frequencies. Turn the channel selector knob to the

desired channel. **IMPORTANT: Make sure the receiver frequency matches the transmitter frequency!** Adjust the volume to a comfortable listening level. To turn the receiver off, rotate the Volume control knob to the left until it clicks off. The ON indicator should not be lit. To prolong the battery life of the unit, turn the receiver off when it is not in use.

FIG. 5B

Frequency (MHz)	Wideband Channel	R35-8 Switch Selection
72.1	A	1
72.2	K	
72.3	B	2
72.4	N	
72.5	C	
72.6	O	3
72.7	D	
72.8	P	4
72.9	E	
74.7	I	5
75.3	J	
75.4	R	6
75.5	F	
75.6	S	
75.7	G	7
75.8	T	
75.9	H	8

BELT CLIP INSTALLATION FOR PPA R37 AND PPA R35-8

TO INSTALL:

Position the belt clip on the rear of the PPA R37 or PPA R35-8 receiver as shown in Figure 6A. Turn the belt clip 180° left or right as shown in Figure 6B. The belt clip is now installed and ready for use.

TO REMOVE:

Turn the belt clip 180° so the edge points toward the top of the unit as shown in figure 6B. Gently pull the belt clip away from the unit to remove.

FIG. 6A

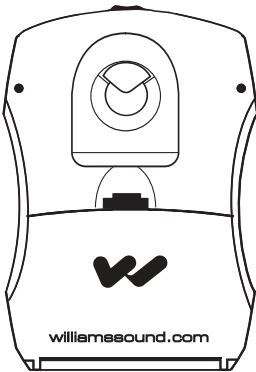
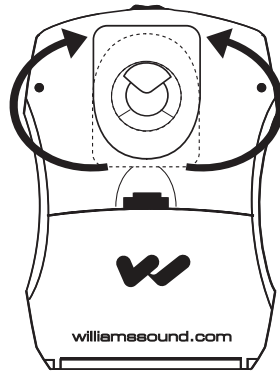


FIG. 6B



EARPAD CLEANING FOR EARPHONES AND HEADPHONES

Do not immerse the earphone in water or other cleaning agent. Foam pads may be removed and washed with a mild laundry soap solution, rinsed thoroughly, and air dried. You may also opt to purchase new foam pads.

Call Customer Service for ordering information:

1-800-843-3544

USING A RECEIVER WITH A HEARING AID

Williams Sound PPA R37 and PPA R35-8 receivers can be used with hearing aids using three different methods:

NECKLOOP TELECOIL COUPLER

Neckloops are cords which hang around the neck and couple magnetically with T-Coil equipped hearing aids.

SILHOUETTE TELECOIL COUPLER

These telecoil couplers are worn behind the ear, right next to telecoil-equipped hearing aids.

DIRECT AUDIO INPUT (DAI) CORD

Direct Audio Input cords can be used with compatible hearing aids as well as with Cochlear Implant Processors.

SUGGESTIONS FOR RECEIVER MANAGEMENT

Different types of facilities will use different approaches for receiver management and earphone sanitation. Below are some options that customers have used successfully.

- ▶ Regular users purchase their own receiver and take care of their own batteries and earphone.
- ▶ Some facilities label the receiver and earphone with the names of regular users so each person uses the same receiver and earphone.
- ▶ Ushers issue receivers to people who request them. Earphones are sanitized after use. Foam ear cushions can be replaced or washed with a mild detergent, rinsed thoroughly and air-dried. The EAR 022 Surround Earphone can be sanitized with an alcohol pad.
- ▶ The receivers can be stored in a multiple compartment storage case with a credit card or driver's license left as collateral for the receiver.
- ▶ Regular users purchase their own earphone or headphone and bring them to use with receivers at the facility.

RECEIVER BATTERY INFORMATION

SINGLE USE BATTERIES

For the PPA R37 and R35-8, the power LED will blink when the battery is low. With other receivers, if the sound becomes weak or distorted, the battery is low. Replace the battery. The indicator light may still be on, even with a battery that is weak. Do not leave dead batteries in the receivers. Battery corrosion is not covered by the Williams Sound five-year warranty.

!! WARNING !!

DO NOT ATTEMPT TO RECHARGE SINGLE USE BATTERIES!

The batteries may heat up and burst, causing possible injury and damage to the equipment.

Avoid shorting the plus and minus battery terminals together with metal objects. Battery damage and burns can result!

If recharge capability is desired, use only Williams Sound supplied chargers and rechargeable batteries!

RECOMMENDED BATTERIES

For Receiver:

- BAT 001 AA non-rechargeable alkaline batteries
- BAT 026 AA rechargeable NiMH only

BATTERY LIFE

For PPA R37 and PPA R35-8 receivers:

- 50 hours for BAT 001 AA non-rechargeable alkaline batteries
- 32 hours for BAT 026 AA rechargeable NiMH batteries

FURTHER SUGGESTIONS

Receivers should NOT be left charging continuously when not in use. Receivers should always be turned OFF while charging.

TROUBLE SHOOTING GUIDE

Read through the manual and user guide carefully to verify proper setup and installation of your system.

TRANSMITTER FREQUENCY DISPLAY (LED) NOT LIT.

- ▶ Make sure the wall transformer is plugged into the transmitter.
- ▶ Make sure the electrical outlet is on.

NO SOUND THROUGH RECEIVERS.

- ▶ If some of the receivers work, but others don't, check for bad batteries or earphones on the receivers that aren't working.
- ▶ Check to see that the receiver frequency matches the transmitter frequency. On the transmitter, the frequency is illuminated on the LED panel on the front of the unit. On the receiver there may be a sticker on the inside of the battery door of the receiver. If these frequencies do not match, see *Frequency Change Instructions* on page 6 (transmitter) and page 11 or 13 (receiver).
- ▶ If none of the receivers work, check to see if the power is connected to the transmitter and the frequency display on the front of the transmitter is illuminated.
- ▶ Check to see if the transmitter is connected properly to the sound system. See page 7.
- ▶ Turn the screwdriver-adjust audio input level control on the front panel of the T27 transmitter clockwise to increase the audio level. Make sure that the audio light is flashing occasionally but not continuously.
- ▶ If you are not using an input signal from a sound system, make sure the Williams Sound microphone is plugged into the "Mic" jack on the front of the T27 transmitter.
- ▶ Make sure the antenna is installed and connected properly. See page 5.

INSUFFICIENT RANGE, GOOD RECEPTION NEAR TRANSMITTER, POOR AT A DISTANCE

- ▶ Check to see if the antenna was installed correctly. If not, correct or replace the antenna. The signal should be clearly audible at least 100 ft with line of site to transmitter antenna.
- ▶ Check to make sure no other transmitters (or other devices) are transmitting on the same frequency (channel).

SOUND THROUGH RECEIVERS IS LOUD, BUT DISTORTED. NOISE (ROOM NOISE OR ELECTRONIC NOISE) SEEMS TO GROW AFTER TALKING STOPS. AUDIO INDICATOR LIGHT IS CONTINUOUSLY ON.

- ▶ Turn the screwdriver-adjust audio level control on the front of the T27 transmitter counter-clockwise to decrease the audio level. The audio indicator light should flash occasionally, but not be lit continuously.

SOUND THROUGH THE RECEIVERS IS WEAK AND NOISY.

- ▶ Turn the screwdriver-adjust audio level control located on the T27 front panel clockwise to increase the input signal strength. The audio indicator light should flash occasionally.
- ▶ Increase the input signal level from the sound system.

BUZZING OR HUMMING NOISE IN SOUND SYSTEM.

- ▶ There is nothing wrong with the T27 Transmitter. One or more pieces of equipment in the sound system are being disturbed by RF (Radio Frequency) signals produced by the T27. The most likely suspects are your amplifier, mixer, or tape deck. The RF gets into the other equipment primarily through the power cord, speaker wires, or unshielded inputs, all of which can act as antennas. Try the following steps:
 - ▶ Move the Transmitter away from the other sound equipment.
 - ▶ Make sensitive equipment more immune to RFI/EMI. The manufacturers of your audio equipment may offer application notes for this purpose. Williams Sound offers a document giving suggestions for improving RF immunity in existing audio equipment. (*Technical Bulletin: Buzz Or Hum In The Sound System, FRM 531*) Unless you have the necessary technical skills, this is best left to a qualified electronics repair technician.

LIMITED WARRANTY

Williams Sound products are engineered, designed, and manufactured under carefully controlled conditions to provide you with many years of reliable service. Williams Sound warrants the Personal PA Value Pack System against defects in materials and workmanship for five (5) years. During the first five years from the purchase date, we will promptly repair or replace the Personal PA Value Pack System.

Microphones, earphones, headphones, batteries, cables, carry cases, and all other accessory products carry a 90-day warranty. Chargers carry a 1 year warranty.

WILLIAMS SOUND HAS NO CONTROL OVER THE CONDITIONS UNDER WHICH THIS PRODUCT IS USED. WILLIAMS SOUND, THEREFORE, DISCLAIMS ALL WARRANTIES NOT SET FORTH ABOVE, BOTH EXPRESS AND IMPLIED, WITH RESPECT TO THE PERSONAL PA VALUE PACK SYSTEM, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. WILLIAMS SOUND SHALL NOT BE LIABLE TO ANY PERSON OR ENTITY FOR ANY MEDICAL EXPENSES OR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY ANY USE, DEFECT, FAILURE OR MALFUNCTIONING OF THE PRODUCT, WHETHER A CLAIM FOR SUCH DAMAGES IS BASED UPON WARRANTY, CONTRACT, TORT OR OTHERWISE. THE SOLE REMEDY FOR ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT IS REPLACEMENT OF THE PRODUCT. NO PERSON HAS ANY AUTHORITY TO BIND WILLIAMS SOUND TO ANY REPRESENTATION OR WARRANTY WITH RESPECT TO THE PERSONAL PA VALUE PACK SYSTEM. UNAUTHORIZED REPAIRS OR MODIFICATIONS WILL VOID THE WARRANTY.

The exclusions and limitations set out above are not intended to, and should not be construed so as to contravene mandatory provisions of applicable law. If any part or term of this Disclaimer of Warranty is held to be illegal, unenforceable, or in conflict with applicable law by a court of competent jurisdiction, the validity of the remaining portions of this Disclaimer of Warranty shall not be affected, and all rights and obligations shall be construed and enforced as if this Limited Warranty did not contain the particular part or term held to be invalid.

If you experience difficulty with your system, call Toll-Free for Customer Assistance:

1-800-843-3544 (U.S.A.) or 1-952-943-2252 (World)

If it is necessary to return the system for service, your Customer Service Representative will give you a Return Authorization Number (RA) and shipping instruction.

Pack the system carefully and send it to:

**Williams Sound
Attn: Repair Dept.
10300 Valley View Rd
Eden Prairie, MN 55344 USA**

Your warranty becomes effective the date you purchase your system. Your returned warranty card is our way of knowing when your warranty begins. Please take a moment to fill it out and mail the enclosed card. You may also register your product online: www.williamssound.com/registration.aspx. This information will help us serve you better in the future. Thank you!

PERSONAL PA VALUE PACK SYSTEM SPECIFICATIONS

PERSONAL PA TRANSMITTER MODEL T27

Dimensions & Weight:	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)
Color:	Black
Power (U.S./Canada):	105-130 VAC, 50-60 Hz, 3.2 W at 120 VAC
Operating Frequencies:	17 Channels: 72.100 (CH A), 72.300 (CH B), 72.500 (CH C), 72.700 (CH D), 72.900 (CH E), 74.700 (CH I), 75.300 (CH J), 75.500 (CH F), 75.700 (CH G), 75.900 MHz (CH H), 72.2 (CH K), 72.4 (CH N), 72.6 (CH O), 72.8 (CH P), 75.4 (CH R), 75.6 (CH S), 75.8 (CH T).*
Frequency Selector:	External switches, 17 channels (lockable)
RF Field Strength:	Does not exceed 80 mV/m @ 3m
Nominal Range:	Up to 1000 feet (305 m) w/standard ANT 021 "rubber duckie" antenna. Up to 1000 feet (305 m) w/optional ANT 005 coaxial antenna.
Modulation:	FM, 75 kHz deviation (wide-band) max.
Stability:	± .005% over 0-50°C
Pre-Emphasis:	75 µS
Frequency Response:	85Hz - 14kHz ±3dB
Distortion:	1% Max. THD
Signal to Noise Ratio:	65 dB with PPA R37 Receiver
Microphone Input:	3.5mm mini phone jack, supplies +DC for electret mics
Mic Input Level:	1-10 mV, nominal
Line-Level Input:	RCA Jack, Hi Z, unbal.
Line Input Level:	0.1-1 Vrms, nominal
Input Attenuator:	Pot, screwdriver-adjustable
Antenna Outputs:	Thread mount for ANT 021 "rubber duckie" antenna or ANT 025 telescoping antenna RF connector for ANT 024 dipole or ANT 005 coaxial antenna
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.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

PPA SELECT™ RECEIVER (MODEL PPA R37)

Dimensions:	4.1" H x 2.85 W x 1.1" T (104 mm x 72 mm x 28 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), up to 50 hours battery life; or Two (2) AA rechargeable NiMH batteries (BAT 026), 1500 mAh, up to 32 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 on : 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 +/- 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.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

PERSONAL PA RECEIVER (MODEL PPA R35-8)

Dimensions:	4.5" H x 2.85" W x 1.1" T (114.3 mm x 72.4 mm x 28 mm)
Weight:	4.6 oz (130 g)
Color:	Black
Battery Type:	Two (2) AA non-rechargeable alkaline batteries (BAT 001), up to 50 hrs. battery life; or Two (2) AA rechargeable NiMH batteries (BAT 026), 1500 mAh, up to 32 hrs. battery life
Current Consumption:	Nominal 40 mA
Operating Freq:	8 channels: 72.1, 72.3, 72.6, 72.8, 74.7, 75.4, 75.7, or 75.9 MHz*.
Intermediate Freq:	10.7 MHz
FM Deviation:	± 75 kHz
De-emphasis:	75 μ S
LED Indicator:	Power: Red. Low Battery: Flashes
Sensitivity:	2 μ V at 12 dB SINAD with squelch defeated
Input Overload:	20 mV
Frequency Response:	40 Hz to 15 kHz \pm 3 dB
Signal to Noise ratio:	60 dB at 100 mV
Receive Antenna:	Integral with earphone/headphone cord
Audio Output:	35 mW, max 16 Ω load
Output Connector:	3.5 mm mono phone jack
Squelch:	Located inside battery door. Factory set for 25 dB S/N. Squelch may be set with JFD-7104-5 from Sprague Goodman or any flat tipped tuning tool with tip size .095 X .016
Notes:	The PPA R35-8 is NOT field tunable. The eight channels have been carefully selected to inhibit inter-modulation interference. Channel frequencies are 72.1, 72.3, 72.6, 72.8, 74.7, 75.4, 75.7, and 75.9 MHz.*
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.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



WILLIAMS SOUND®
HELPING PEOPLE HEAR

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