

A man with a beard, wearing a black button-down shirt and light blue jeans, stands in a technical room. He is looking upwards and to the right. The room contains large, curved, metallic speakers or components. The lighting is dramatic, with strong highlights and deep shadows.

**FM**

COMMUNICATION

# PERSONAL PA<sup>®</sup>

Your audience is ready and waiting ... to be soothed by a pastor's sermon, to be mesmerized by the leading man's monologue, to be pumped by an announcer's play-by-play. From houses of worship to performing arts centers to football stadiums, FM listening technology from Williams Sound ensures every listener in attendance can hear your message clearly. Our FM systems provide peace of mind, every time — complete, turn-key solutions that meet your facility's needs for hearing assistance, language interpretation, audio description or ADA compliance.

- Ideal for large venues
- Easy to install
- Integrates fully with existing sound systems
- Listeners can sit anywhere
- Cost-effective
- Works well indoors or outdoors
- Complies with 2010 ADA guidelines
- Covered by the Williams Sound Lifetime PLUS · Limited Warranty

## FM LISTENING

Wireless, radio-wave systems designed to help individuals needing auditory assistance or language interpretation to overcome background noise, reverberation and distance from the sound source. Ideal for large-group listening scenarios. Individuals use personal FM receivers anywhere within the coverage area to hear crystal-clear sound directly from the sound source.

**ADA**  
COMPLIANT

**NETWORK**  
CONTROLLED ASSISTIVE LISTENING



# FM TRANSMITTERS



The cutting-edge PPA T45Net / T45\* base-station transmitter offers network control capability from any remote location, multiple digital audio input options, and an OLED high-res screen with easy-to-manage menu navigation. Features a powerful microprocessor and the same high-quality audio and RF performance you've come to expect from Williams Sound. It's technology that takes the guesswork out of complex audio installation. Simply select between voice, music, or hearing assistance in the application preset menu, and this transmitter quickly configures itself. Range of up to 1000 feet.



The PPA T27 base-station transmitter broadcasts voice, music or audio service wirelessly up to 1000 feet. Audience members can pick up the broadcast using the optional PPA R37 or PPA R38 receivers, operating on 72-76 MHz. For stand-alone applications, a presenter can simply connect a microphone with 3.5mm plug into the unit to broadcast their voice. The PPA T27 can also connect to a sound system through a line-level (RCA) jack to broadcast music or other audio service. Simple to set up and use, the PPA T27 is ideal for portable use.



The highly portable PPA T46 body-pack transmitter broadcasts voice or audio programs on one of 17 available channels (72-76 MHz) to listeners using Williams Sound PPA R37 or PPA R38 receivers. Features flexible microphone and auxiliary input jacks, push-button on/off/mute controls, channel lock and selectable compression. Operates in dual-channel mode, allowing the user to easily switch between two different transmitting channels, each with its own set-up parameters. OLED screen displays current operating status and menu information. The rechargeable PPA T46 operates up to 30 hours on two AA alkaline or rechargeable batteries. Range of up to 150 feet (46m).

Accessories - Williams Sound offers a wide selection of high-quality accessories, including earphones, headphones, neckloops microphones and chargers. Each product is rigorously tested and approved for quality, reliability and compatibility. See our full line of accessories at [williamssound.com/accessories](http://williamssound.com/accessories).

# FM RECEIVERS

The stylish PPA R38 receiver features a high-res OLED screen that's easy on the eyes and convenient to use — presenting a quick view of receiver status and immediate entry to all user settings. On-screen channel selection with easy access to 17 pre-set, wideband frequencies (72-76 MHz). Digitally synthesized for exceptional audio clarity and stability, the ease of the PPA R38 is apparent with its digital tuning, digital squelch and battery-saving sleep mode.



Flexible and simple, the PPA R37 receiver features easy-to-use, seek-button channel selection with access to 17 pre-set wideband frequencies between 72-76 MHz. Compatible with the following Williams Sound transmitters: PPA T45Net / T45, PPA T46 and PPA T27. Digitally synthesized for exceptional audio clarity and stability. A versatile 3.5mm stereo/mono jack allows for a variety of earphone and headphone options, and is neckloop/telecoil-equipped-hearing-aid compatible.



**Rechargeable** All Williams Sound receivers are compatible with optional Williams Sound CHG 3512 and 3502 drop-in chargers.



# PACKAGED SOLUTIONS

Williams Sound offers a number of packaged digital communication systems. Use as is or customize / expand to meet your specific communication needs. Or create your own system from scratch with our array of customizable options.

## PPA 457 NET PRO



### INCLUDES

- (1) PPA T45Net transmitter, (4) PPA R37 receivers, (2) NKL 001 neckloops,
- (4) EAR 013 earphones, (1) ANT 025 whip antenna, (1) WCA 013 audio cable,
- (1) TFP 016 power supply, (1) IDP 008 ADA plaque, (4) BAT 001-2 AA batteries,
- (1) ANT 005 coax antenna, (1) RPK 005 rack panel kit

### CUSTOMIZABLE

**Will more than 4 members of your audience require hearing assistance?**

Add more PPA R37 receivers.

**Will your facility require additional receivers to be staged and ready for immediate use?**

Add a CHG 3512 3V 12-unit charger.



# FM TOUR GUIDE

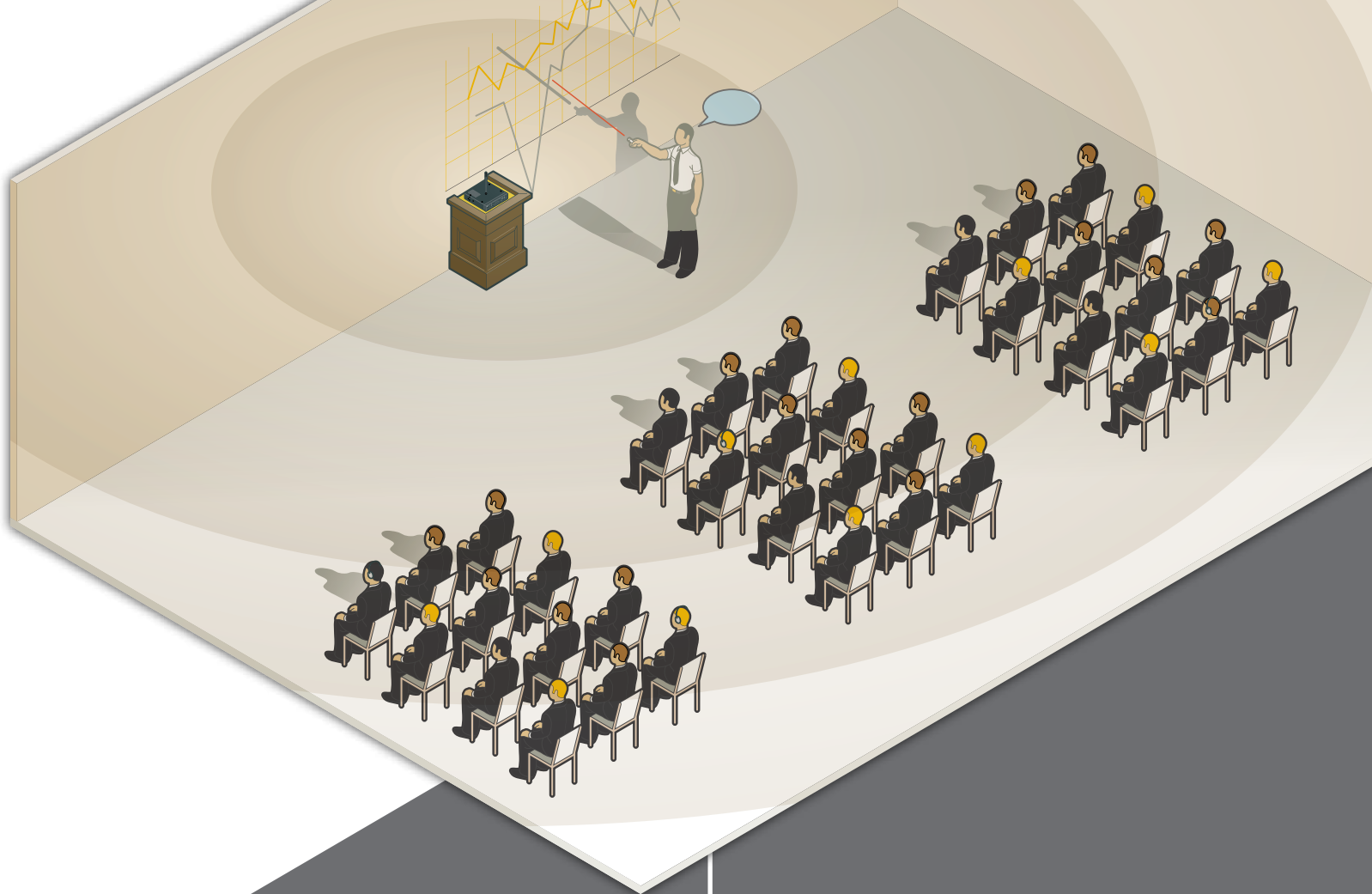


Williams Sound TGS Pro 737 and TGS Pro Multi FM tour guide systems ensure superior, wireless communication between tour guide and participants. With the tour guide's message delivered directly to their headphones by way of an FM signal, participants can focus on the areas of the tour that meet their personal interest, without missing important information. Both systems are completely portable, offering the option of hands-free operation. Set-up is easy and operation is simple. Each participant controls their own volume.

The TGS Pro 737 is a single-channel system. The TGS Pro Multi is a multi-channel system with eight selectable frequencies — allowing multiple tour groups to operate in the same vicinity, simultaneously, with no crosstalk or interference.







## HOW IT WORKS

- 1) Input to an FM listening system can come from a microphone, sound system or other audio source. Here, the professor teaches students using an existing microphone.
- 2) The FM transmitter captures the professor's voice. The transmitter, in turn, sends a low-power radio signal to all FM receivers in the lecture hall.
- 3) Students use the FM receivers to listen to the professor.



## WORKS LIKE A SMALL RADIO STATION

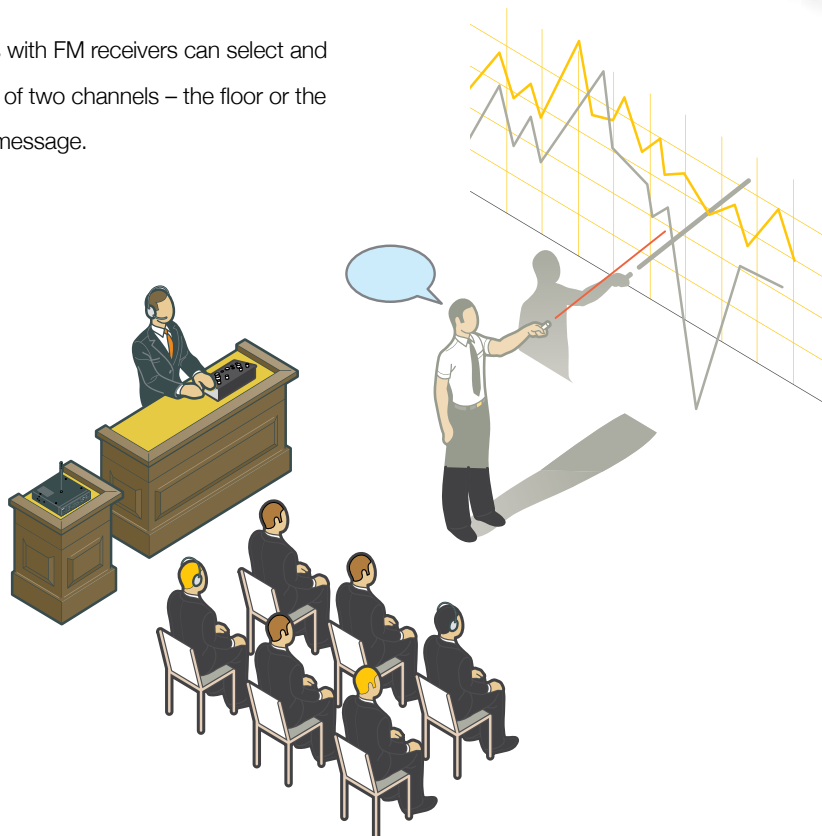
An FM listening system operates just like a small radio station. An FM transmitter, directly connected to the sound system used in a facility, broadcasts radio signals on pre-set frequencies (frequencies that the FCC has determined and restricted for use by assistive listening and language interpretation systems). These signals are received by individual "radios" – FM body-pack receivers tuned to the specific frequency in use.

# LANGUAGE INTERPRETATION

The Williams Sound IC-2 is an audio control center for simultaneous interpretation of one or more languages. As a stand-alone unit, it allows one or two interpreters to monitor floor or relay sources, activate microphone inputs, and route the interpretation signal to one of two language groups. Ideal when multiple interpreters need to work together or when one needs to toggle between two language groups. Can be used with Williams Sound FM transmitters for portable or fixed installations.

At a multi-language presentation, the IC-2 is the interpreter's interface with a facility's sound system, allowing for smooth, simultaneous interpretation of the proceedings.

- 1) Presenter speaks into an existing microphone.
- 2) Interpreter listens to the speaker's message.
- 3) Interpreter interprets the message into a second language, speaking into their headset mic.
- 4) Participants with FM receivers can select and listen to one of two channels – the floor or the interpreted message.





Los Angeles Memorial Coliseum, Calif.

Canadian Hard of Hearing Association, Ottawa, Ontario

Palm Beach County School District, Florida

University of the State of Mexico, Toluca

Metropolitan Touring, Quito, Ecuador

Tramontina Group, Rio Grande do Sul, Brazil

# AROUND THE **WORLD**



Hearing Assistance / ADA Compliance / Language Interpretation / Audio Description



Digital FM Infrared Loop



Williams Sound has many solutions for your commercial needs. For more information about Williams Sound's full line of professional listening products and accessories, please contact our sales department through any of the contacts listed below.

800.843.3544 (USA) / +1.952.943.2252 (Outside USA) / 952.943.2174 (fax) / [williamssound.com](http://williamssound.com) /

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