

A Williams Sound Infrared communication device is mounted on a silver tripod and sits on a wooden table. The device is a white, oval-shaped unit with a black horizontal slot on its front. The background shows a blurred classroom with wooden desks and people. The word "INFRARED" is overlaid in large, white, bold, sans-serif capital letters.

# INFRARED

COMMUNICATION

# SOUNDPLUS®

Your audience is waiting. The pressure is on. Communicate your message without sacrificing security or sound quality. Infrared listening technology from Williams Sound ensures peace of mind, every time. From courtrooms to conferences, from retrofit to new construction, Williams Sound has complete, turnkey solutions to meet your facility's needs for hearing assistance, simultaneous interpretation, audio description or secure listening services.

- Easy to install
- Secure – transmission confined within opaque walls
- Resistant to RF interference
- Accommodates multiple adjacent rooms without spillover
- Integrates easily with existing sound systems
- Legal for use in any country
- Four simultaneous channels available
- 5-year warranty

## INFRARED SYSTEMS

These wireless systems utilize infrared light to carry audio to individuals needing auditory assistance or language interpretation to overcome background noise, reverberation and distance from the sound source. Ideal for mid-range to large-area group-listening scenarios. Individuals use personal infrared receivers anywhere within the coverage area to hear crystal-clear sound directly from the sound source.

**ADA / Equality Act 2010**  
C O M P L I A N T



# INFRARED TRANSMITTERS & EMITTERS



The powerful WIR TX90 two-channel infrared transmitter features an all-in-one modulator and emitter—operating on switchable carrier frequencies of 2.3/2.8 MHz or 3.3/3.8 MHz. Provides up to 28,000 square feet of coverage in single-channel mode when using the WIR RX 22-4 receiver. The WIR TX90 features pre-set controls for music, voice or hearing assistance applications – no guesswork required for audio configuration. Everything you need for installation is in the box.



The WIR TX925 two-channel infrared system (2.3/2.8/3.3/3.8 MHz) is flexible, competitively priced, and ideal for use in large facilities that have hearing assistance, language interpretation or audio description needs. Two-channel operation provides multi-channel flexibility for independent or stereo operation. Two of the MOD 232 two-channel infrared modulators can be ganged together to transmit up to four channels simultaneously. Provides up to 28,000 square feet of coverage in single-channel mode when using the WIR RX 22-4 receiver.



The WIR TX75 PRO infrared transmitter now features optional power-over-ethernet (POE) capability, giving users the option to remotely power it from a distance of up to 100 feet. The transmitter offers the flexibility of Phoenix Contact® connector audio inputs and a new, improved range of up to 12,000 square feet (in single-channel mode when using the WIR RX22-4 receiver). Available in C (2.3/2.8 MHz) and D (3.3/3.8 MHz) models. Two WIR TX75 PROs can be linked to provide up to four channels of operation. Two WIR TX75 S slave emitters can be added to a WIR TX75 PRO for additional coverage of up to 12,000 square feet each (36,000 square feet total), when mounted up to 100 feet from the master. A single CAT5 cable carries both power and signal to the slaves.

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).

# INFRARED RECEIVERS

WIR RX22-4 is a four-channel selectable, infrared receiver compatible with transmitters operating on the 2.3/2.8/3.3/3.8 MHz bandwidth. Considered best in class, the highly receptive RX22-4 offers a range of up to 28,000 sq. ft. (2,600 sq. m.) in single-channel mode when used with a Williams Sound WIR TX925 or WIR TX90 infrared system. Body-pack design features convenient channel selector and easy on/off volume control. Can be used with mono or stereo headphones, earphones or a neckloop (lanyard included). 5-year warranty.



WIR RX18 is a two-channel infrared receiver designed for use with a transmitter operating on 2.3/2.8 MHz, in single-channel or stereo. Range of up to 3,063 sq. ft. (285 sq. m.) in single-channel mode when used with a Williams Sound WIR TX925 or WIR TX90 infrared system. Lightweight, one-piece design is comfortable, easy-to-clean and rechargeable (use CHG 518 five-bay charger). 5-year warranty. The WIR RX18B infrared receiver option is available upon request. It features a 3.5mm jack for use with neckloop, headphone or earphone for situations requiring ADA compliance (ADAAG).



WIR RX15-2 is a two-channel, infrared receiver designed for use with a transmitter operating on 2.3/2.8 MHz. (Push-button frequency selector makes it easy to alternate between 2.3 and 2.8 MHz.) Range of up to 3,500 sq. ft. (325 sq. m.). This easy-to-operate, headset receiver is ideal for applications where excellent sound quality is essential. Each earphone features its own volume-control knob. Hearing-aid compatible. 2-year warranty.



# PACKAGED SOLUTIONS

Williams Sound offers a number of packaged infrared 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.

## WIR SYS 7522 PRO



### INCLUDES

- (1) WIR TX75 PRO transmitter, (3) WIR RX22-4 receivers,
- (3) HED 021 headphones, (2) NKL 001 neckloops, (3) BAT 001-2 AA batteries,
- (1) IDP 008 ADA plaque, (1) BKT 024 bracket, (1) TFP 046 power supply

### CUSTOMIZABLE

#### Is your courtroom larger than 12,000 square feet?

Add up to two additional WIR TX75 S slave emitters as needed.

#### Will more than three listeners require hearing assistance?

Add more WIR RX22-4 receivers.

**Will proceedings require additional receivers be staged and ready for immediate use?** Add a CHG 3512 3V 12-unit charger.





# MARKETS SERVED

GOVERNMENT

ENTERTAINMENT

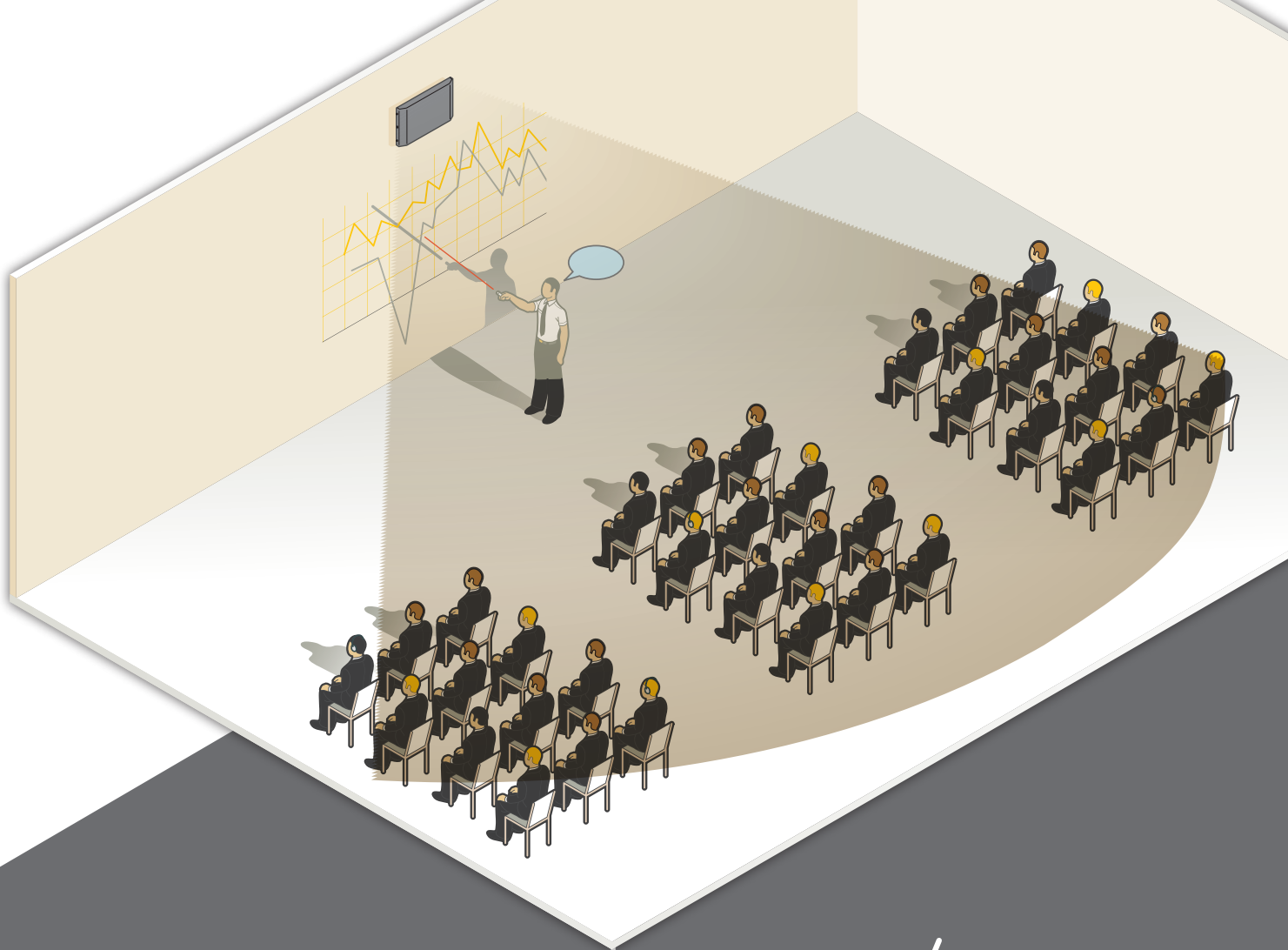
EDUCATION

CORPORATE

HOUSES OF WORSHIP

HEALTH CARE





## HOW IT WORKS

- 1) Input to an infrared system can come from a microphone, sound system or another audio source. Here, the presenter speaks to participants using an existing microphone. This audio input produces an electrical signal which contains the audio information.
- 2) This electrical signal is then fed to the infrared modulator, which prepares the signal for infrared transmission. The processed signal is then fed to the emitter, which produces the invisible infrared light and radiates it into the room.
- 3) Infrared receivers convert the infrared light back to audio. Participants requiring hearing assistance each use an infrared receiver to listen to the presenter.



### WORKS LIKE A FLASHLIGHT

Think of infrared emitters as a beam of invisible light. Emitters are available in different sizes, depending on the area of coverage and number of channels required.

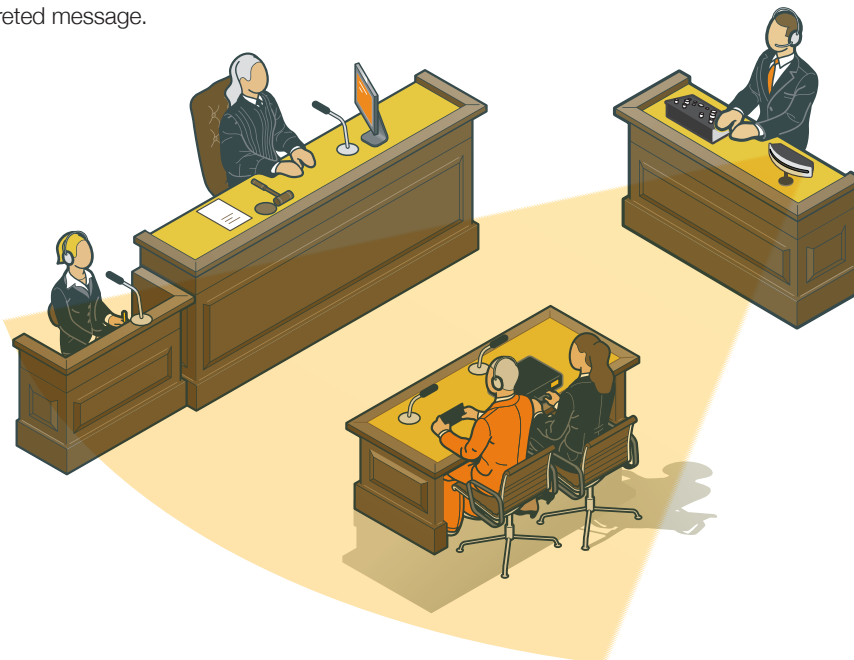
In most applications, multiple emitters are used to ensure even coverage of the light, so users do not experience blind spots.

# 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 infrared transmitters for portable or fixed installations.

In judicial interpretation, the IC-2 is the interpreter's interface with a facility's sound system, allowing for smooth, simultaneous interpretation of the proceedings.

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





McCormick Place, Chicago, Ill.

Shaftesbury Theatre, London, England

Los Angeles Superior Court, Calif.

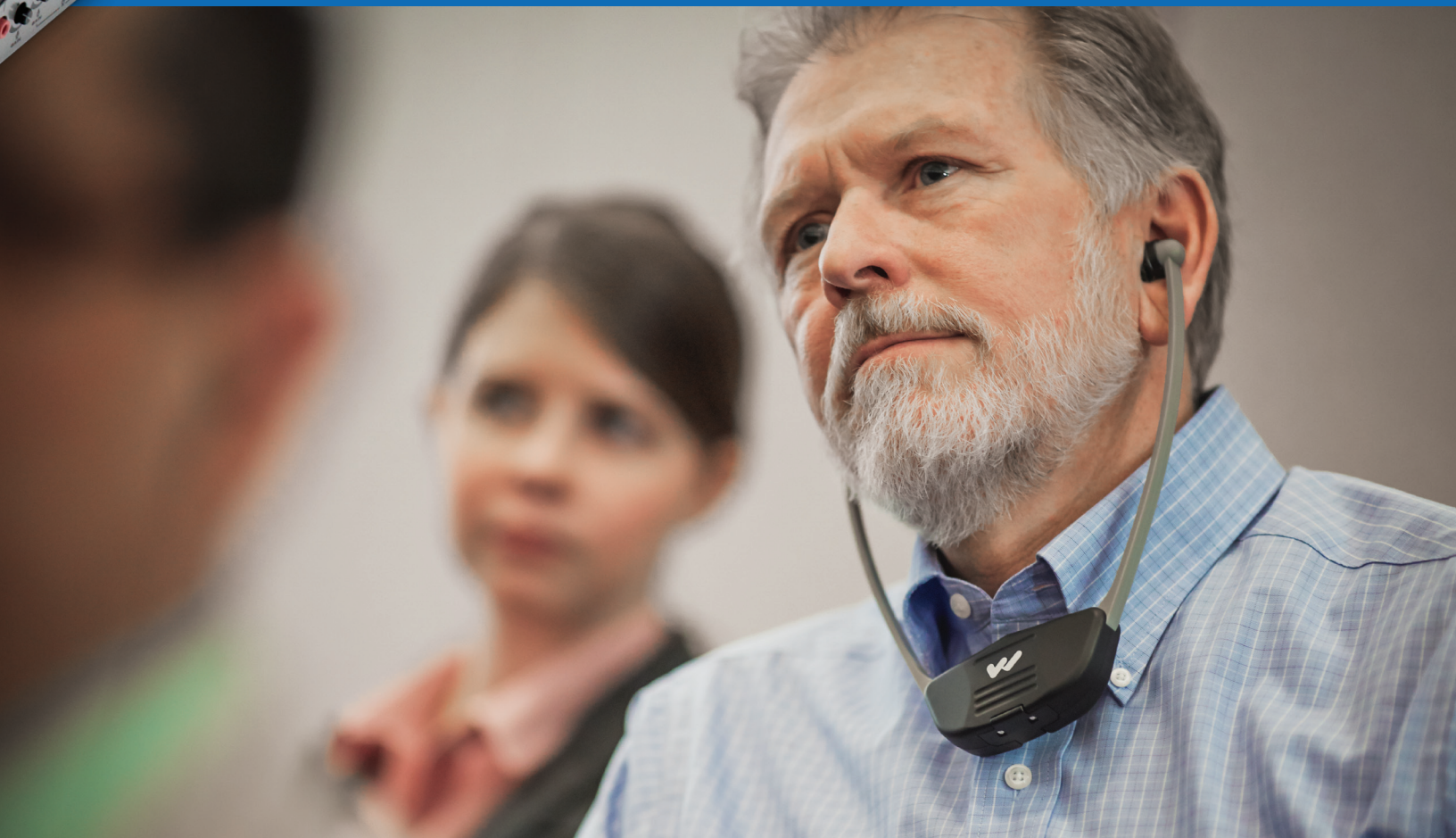
Regal Entertainment Group, Knoxville, Tenn.

Jupiters Hotel and Casino, Gold Coast, Australia

# AROUND THE **WORLD**



Hearing Assistance / ADA & Equality Act 2010 Compliance / Audio Description /  
Patient Treatment Audio / Secure Listening



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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