



INFRARED TECHNOLOGY

WILLIAMSAV

INFRARED

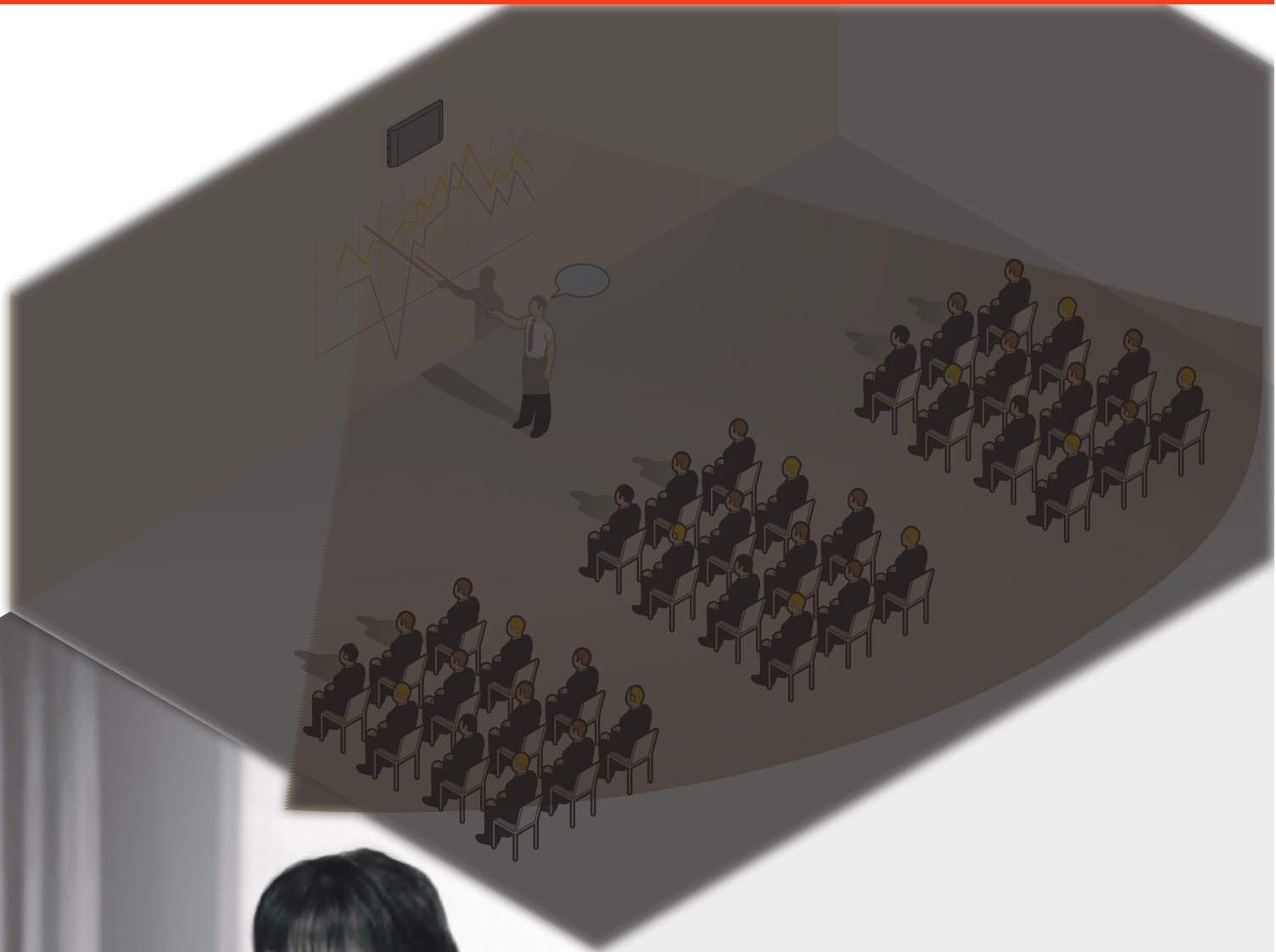
LISTENING TECHNOLOGY

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.

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. Individuals use personal infrared receivers anywhere within the coverage area to hear crystal-clear sound directly from the sound source.

- 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
- Up to four simultaneous channels available
- Global Disability Legislation Compliant
- 5-year warranty





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. The microphone is fed into a mixer.

2) This audio from the microphone 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.

TRANSMITTERS AND EMITTERS



Small-area Infrared Transmitter

IR T1

Its sleek, compact footprint is ideal as an assistive listening system for small areas or for private TV listening in such areas as small conference rooms, hospital rooms, assisted living facilities, medical treatment centers and jury deliberation rooms. The T1 is so energy efficient it can be powered from a standard USB port on a TV. Provides a coverage area of up to 1,300 square feet.



Medium-area Infrared Transmitter

IR T2

Commercial-grade, sleek, compact and ideal for assistive listening and language interpretation in commercial spaces such as conference rooms, assisted living facilities, small cinema/theaters, classrooms and courtrooms. The IR T2 infrared transmitter offers up to 18,000 square feet of coverage. With a significantly wider coverage pattern and more power, there is no need for the additional expense of secondary units.





Two-channel, Infrared Modulator

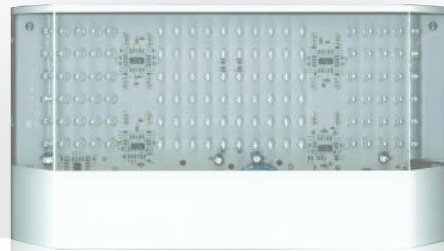
MOD 232

Each microprocessor-controlled MOD 232 modulator handles two audio channels. Daisy-chain two MOD 232s together for four-channel operation.

Large-area, Multi-channel Infrared Emitter

WIR TX9 DC | WIR TX9 DC WHT

The powerful WIR TX9 DC emitter produces a wide-angle infrared signal that concentrates infrared energy efficiently in the listening area. Operating on the 2.3-3.8 MHz bandwidth, the WIR TX9 DC is less susceptible to radio and lighting interference. Each WIR TX9 DC emitter can cover up to 30,000 square feet in single-channel operation. Coverage area can be easily increased by daisy-chaining additional WIR TX9 DC emitters. A wall/ceiling omnidirectional mount is included, and stand kits are available for portable operation.



Large-area, Multi-channel Infrared Transmitter

WIR TX90 DC | WIR TX90 DC WHT

The powerful four-channel WIR TX90 DC transmitter combines modulator and emitter technology into a single operating unit, which reduces operating costs, eliminates the need for rack space and eases set-up. The WIR TX90 DC features application 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 powerful emitter produces a wide-angle infrared signal that concentrates IR energy efficiently in the listening area. Operating on the 2.3-3.8 MHz bandwidth, the emitter is less susceptible to radio and lighting interference. Each emitter can cover up to 30,000 square feet in single-channel operation. The coverage area can be easily increased by daisy-chaining additional WIR TX9 DC emitters.



RECEIVERS



Four-channel Selectable, Infrared Receiver

WIR RX22-4N

Compatible with transmitters operating on the 2.3/2.8/3.3/3.8 MHz bandwidth. Considered best in class, the highly receptive WIR RX22-4N offers a range of up to 30,000 square feet 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). Uses AA alkaline or rechargeable batteries for up to 60 hours of operation. 5-year warranty.



Two-channel Infrared Receiver

WIR RX18

Designed for use with a transmitter operating on 2.3/2.8 MHz, in single-channel or stereo. Range of up to 3,063 square feet in single-channel mode when used with a Williams Sound WIR TX925 or WIR TX90 DC infrared system. Lightweight (weighing only 2 oz.), one-piece design is comfortable, easy-to-clean and rechargeable (use CHG 518 five-bay charger). 5-year warranty.



SYSTEM PACKAGES

System	System Includes	Coverage	Applications
IR SY1	(1) IR T1 transmitter, (1) WIR RX22-4N receiver, (1) folding headphones, (1) power supply, (1) flat-panel TV mounting bracket, (1) USB micro cable, 6 ft. (USB 2.0 to USB micro), (1) adapter cable (3.5mm to RCA), (2) AA alkaline batteries	Small area. Up to 1300 square feet.	Assistive listening or private TV listening in small conference rooms, hospital rooms, assisted living facilities, medical treatment centers and/or jury deliberation rooms.
IR SY2	(1) IR T1 transmitter, (2) WIR RX22-4N receivers, (2) heavy-duty, mono headphones, (1) neckloop, (1) power supply, (1) flat-panel TV mounting bracket, (1) USB micro cable, 6 ft. (USB 2.0 to USB micro), (1) adapter cable (3.5mm F to RCA), (1) two-bay body-pack charger, (4) AA NiMH batteries	Small area. Up to 1300 square feet.	Assistive listening or private TV listening in small conference rooms, hospital rooms, assisted living facilities, medical treatment centers and/or jury deliberation rooms.
IR SY4	(1) IR T2 transmitter, (3) WIR RX22-4 receivers, (1) power supply, (1) wall/ceiling mount, (1) charger, (1) ADA wall plaque	Medium area. Up to 18,000 square feet in single-channel mode with WIR RX22-4 receiver.	Assistive listening and language interpretation in commercial spaces such as conference rooms, assisted living facilities, small cinema/theaters, classrooms and courtrooms.
IR SY5	(1) IR T2 transmitter, (3) WIR RX22-4 receivers, (3) folding headphones, (2) neckloops, (1) power supply, (1) wall/ceiling mount, (1) ADA wall plaque, (6) AA alkaline batteries	Medium area. Up to 18,000 square feet in single-channel mode with WIR RX22-4 receiver.	Assistive listening and language interpretation in commercial spaces such as conference rooms, assisted living facilities, small cinema/theaters, classrooms and courtrooms.
IR SY6	(1) IR T2 transmitter, (2) WIR RX22-4 receivers, (1) conference microphone, (2) surround earphones, (2) neckloops, (1) power supply, (1) table-top tripod, (1) 12-foot mono cable, (1) carry case, (1) ADA wall plaque, (4) AA alkaline batteries	Medium area. Up to 18,000 square feet in single-channel mode with WIR RX22-4 receiver.	Portable ADA Compliance Kit for Courts: Assistive listening and language interpretation in commercial spaces such as conference rooms, assisted living facilities, small cinema/theaters, classrooms and courtrooms.
WIR SYS 1	(1) MOD 232 modulator, (1) WIR TX9 DC emitter, (4) WIR RX22-4 receivers, (1) modulator with power supply, (1) emitter with power supply, (4) headphones, (2) neckloops, (1) wall/ceiling mount, (1) rack mount kit, (1) ADA wall plaque, (8) AA alkaline batteries	Large area. Up to 30,000 square feet in single-channel mode with WIR RX22-4 receiver.	Pro Courtroom System: Ideal for hearing assistance, language interpretation and/or private listening.
WIR SYS 3	(1) MOD 232 modulator, (1) WIR TX9 DC emitter, (3) WIR RX18 receivers, (1) WIR RX22-4 receiver, (1) modulator with power supply, (1) emitter with power supply, (1) earphone, (1) neckloop, (1) wall/ceiling mount, (1) rack mount kit, (1) five-bay charger, (1) ADA wall plaque, (2) AA alkaline batteries	Large area. Up to 30,000 square feet in single-channel mode with WIR RX22-4 receiver.	Deluxe Courtroom System: Ideal for hearing assistance, language interpretation and/or private listening.
WIR TX925	(1) MOD 232 modulator, (1) WIR TX9 DC emitter, (1) modulator with power supply, (1) emitter with power supply, (1) wall/ceiling mount, (2) RCA-to-RCA cables, (2) RCA-to-1/4" adapters, (1) 50' power cable, (1) 100' coax cable, (1) ADA wall plaque	Large area. Up to 30,000 square feet in single-channel mode with WIR RX22-4 receiver.	Ideal for hearing assistance, language interpretation and/or audio description.
WIR SYS 90 ADV	(1) WIR TX90 DC transmitter, (5) WIR RX18 receivers, (1) five-bay charger, (1) ADA wall plaque	Large area. Up to 30,000 square feet in single-channel mode.	Ideal for hearing assistance, language interpretation and/or audio description.

See full line of accessories at williamssound.com/accessories.

WILLIAMS AV

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