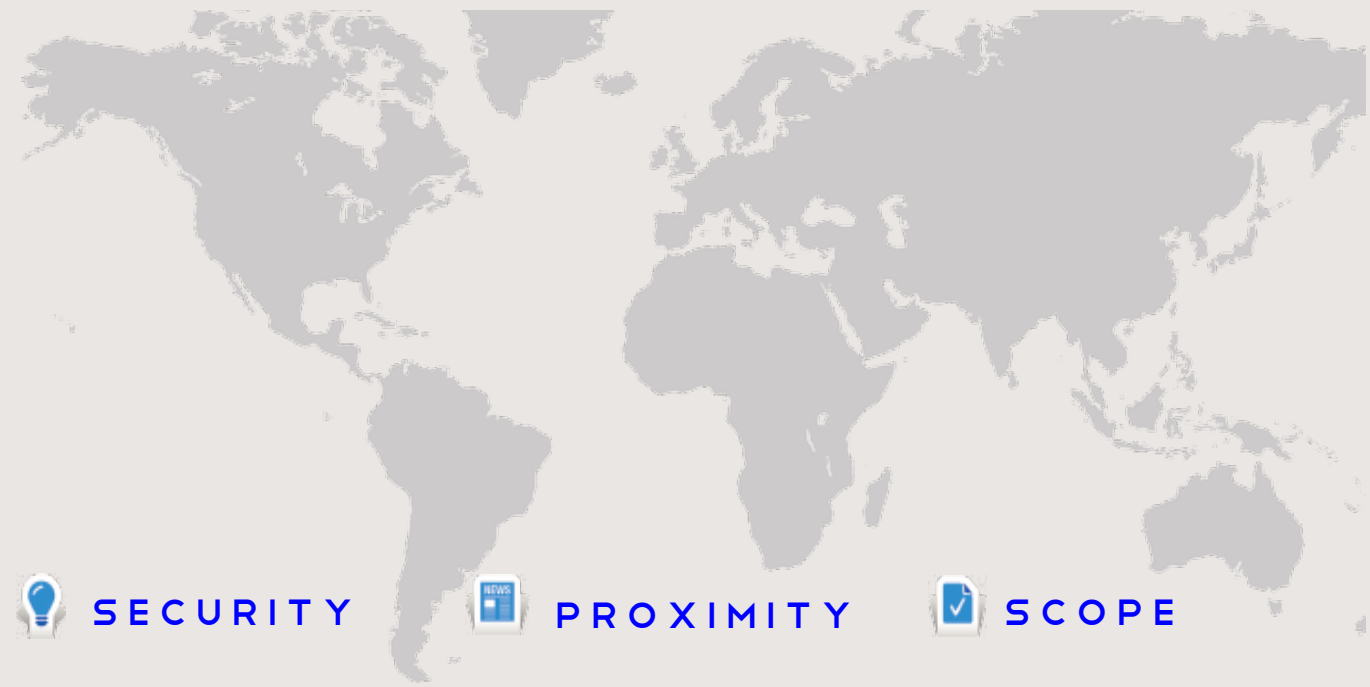
All About Infrared (IR) Systems

What is an IR System?

IR Systems is a wireless, lightwave systems designed to help 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.



What is the advantage of a IR System?

- 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

Courts

Schools

Conference Rooms

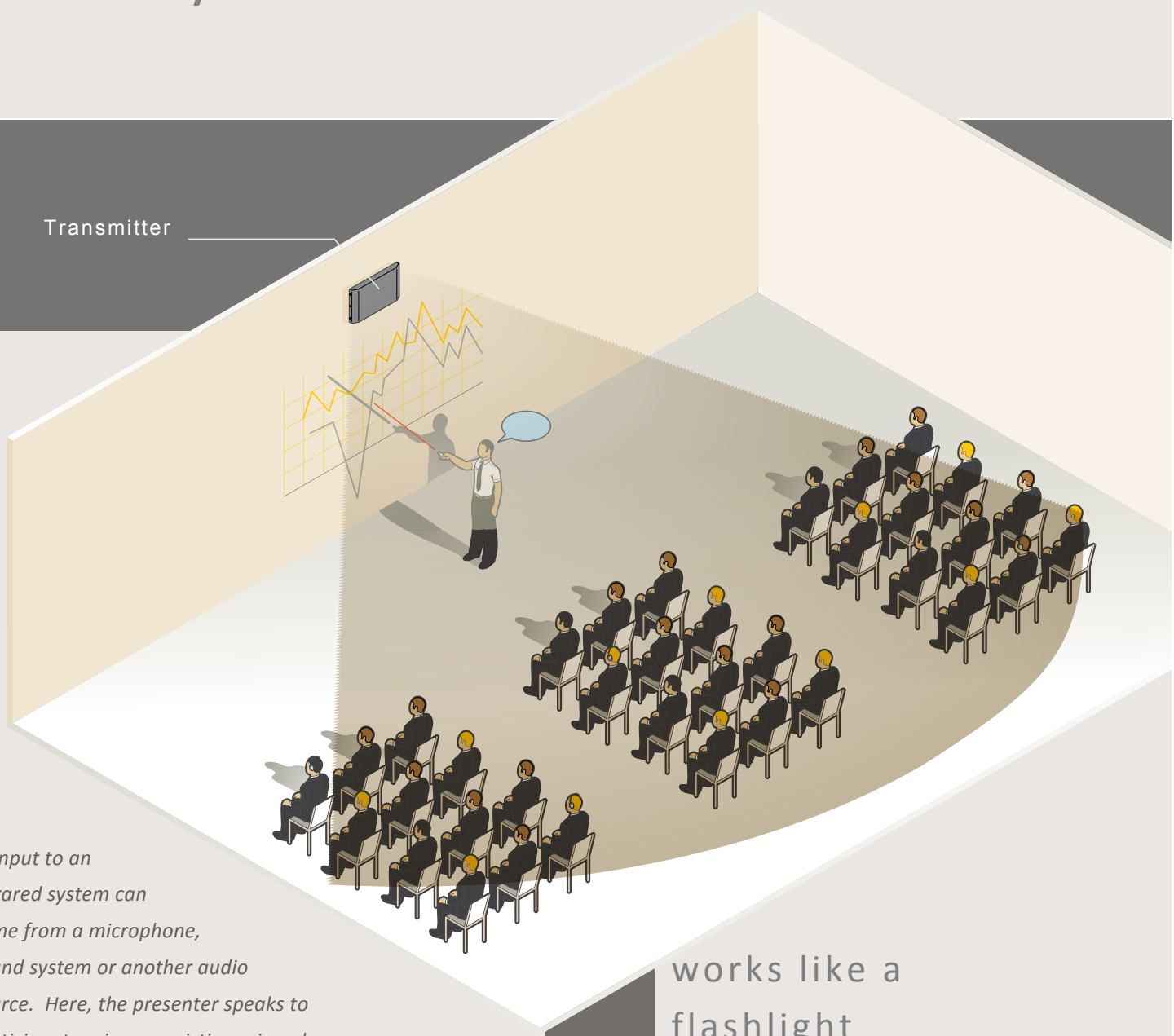
Cinemas

Convention Centers

Health Care Facilities

Houses of Worship

How do IR Systems work?



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.

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