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Quality • Service • Experience




Infrared Systems

Improve quality of life for people with hearing loss with infrared systems, providing clear sound, confidentiality and accessibility



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Infrared assistive listening systems help improve the lives of people with hearing loss

Assistive technology systems provide independence, accessibility and well-being to customers who require them.

Infrared assistive listening systems are ideal for when a sound source is transmitted to multiple receivers, when ambient noise needs to be reduced, or when confidentiality is required within a confined space. These systems are designed for areas with low ambient light.

An audio source is converted to infrared light and projected to your customers using an **infrared transmitter**. Users' **infrared receivers** then convert the light back into audio, providing them with a simple and crystal clear listening experience.



Medium Area Infrared Transmitter with Modulator

The Medium Area Infrared Transmitter with Modulator combines an infrared modulator and transmitter, providing a wide angle of emission with a sleek and compact design that eliminates the need for rack space. With a coverage area of 180m², it is ideal for use in medium-sized environments with low ambient light.

All audio signals are modulated to infrared signals 2.3MHz or 2.8MHz.

The unit's range can also be increased and the angle enlarged by combining two Medium Area Infrared Transmitters. The range of the combined units is up to 370m² at one-channel transmission, ideal for large rooms.

A wall and ceiling mounting kit is supplied.

Applications:

For use in any situation where infrared systems can provide multiple listeners with clear sound:

- Conference and Meeting Rooms
- Cinemas and Theatres
- Courts
- Lecture Halls, Schools and Universities
- Places of Worship

What's Included:

- Medium Area Infrared Transmitter w/ Modulator
- Wall/Ceiling Mounting Kit

See next page for Physical Data, Technical Data and Product Codes.

Technical Data:

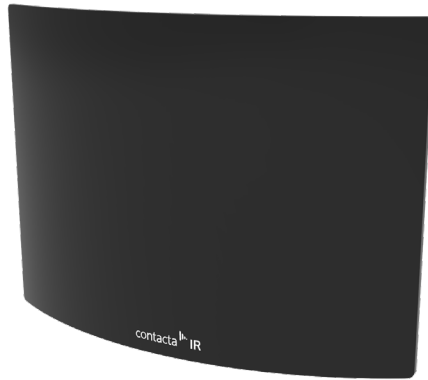
Power Supply Input	100-240V AC / 50-60Hz
Power Supply Output	24V DC / 0.8A (2.5mm barrel plug - centre contact »positive«)
Connection Cable	2 x barrel plug, 2.5mm
Carrier Frequencies	2.3 MHz (Ch1) and 2.8 MHz (Ch2).
Transmission Power	0.7W
Ranges:	Single transmitter: 1-channel operation 180m ² Combined mode (2 transmitters): 370m ²
Line-Input	Cinch channel 1 and channel 2
Microphone Input	3.5 mm jack plug - sensitivity adjustable via control dial
Inputs/Outputs for Combined Mode	Primary Transmitter: Power-out 24V, audio-out "sync out"
	Secondary Transmitter: Power-in 24V, audio-in "sync-in"
LED Display	Input-level indicator LEDs, 1 per channel
Ambient Conditions	0 – +50°C ambient temperature (non-condensing, non-corrosive environment)
Mounting types	Wall or ceiling mounting kit included

Physical Data:

Dimensions	Height – 64mm (2.51") Width – 254mm (10") Depth – 79mm (3.11")
Weight	300g (0.66lbs)
Finish	White
	Black

Product Code:

Medium Area IR Transmitter w/ Modulator	IR-TX2
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Large Area Infrared Transmitter with Modulator

Our two-channel Large Area Infrared Transmitter with Modulator combines an infrared modulator and transmitter, generating a wide exit angle for the infrared signal while providing a sleek and compact design that eliminates the need for rack space. It is ideal for use in large environments with low ambient light.

Transmissions are at a bandwidth of 2.3 and 2.8MHz. In 1-channel mode, the transmitter supplies areas of up to 900m². Additional transmitters allow the receiving range to be increased.

A wall and ceiling mounting kit is included.

Applications:

For use in any situation where infrared systems can provide multiple listeners with clear sound:

- Conference and Meeting Rooms
- Cinemas and Theatres
- Courts
- Lecture Halls, Schools and Universities
- Places of Worship

What's Included:

- Large Area Infrared Transmitter w/ Modulator
- Wall/Ceiling Mounting Kit

See next page for Physical Data, Technical Data and Product Codes.

Technical Data:

Power Supply	Primary: 230V~ 50-60Hz Secondary: 28V DC
DC Input	Low-voltage connector, 28V DC, middle = »+«-Pol
Power Consumption	700mA
Carrier Frequencies	2.3 MHz (A-channel) and 2.8 MHz (B-channel)
Transmitter Range	30 metre, closed room
Audio Inputs	Cinch (RCA) for left and right and/or A and B-channel
Microphone Input	6.3mm stereo-jack plug
Input Impedance	Audio-In: 18k Ω
	Mic-In: 1.3k Ω
Trigger Voltage of Audio-In	110mV
Input Level Display Mic-In	1.5mV
Inputs/Outputs for Combined Mode	Sync-in/Sync-Out Cinch (RCA) for left & right and/or A and B-channel
Display	Input level-LEDs, one per channel.
Ambient Conditions	0 – +40 °C ambient temperature (non-condensing, non-corrosive environment)
Mounting Types	Wall or ceiling mounting kit included

Physical Data:

Dimensions	Height – 327mm (12.8") Width – 412mm (16.2") Depth – 75mm (2.95")
Weight	1,100g (2.42lbs)
Finish	Black or White

Product Code:

Large Area IR Transmitter with Modulator	IR-TX4
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Portable Infrared Receiver

Our Portable Infrared Receiver is a two channel receiver, compatible with transmitters using frequencies 2.3MHz and 2.8MHz. It features automatic gain control and high sensitivity for incoming infrared signals.

The receiver uses rechargeable batteries.

What's Included:

- Portable Infrared Receiver
- Carrying Cord with Clip
- Belt Clip
- 2x Rechargeable Batteries (type: AAA)

Physical Data:

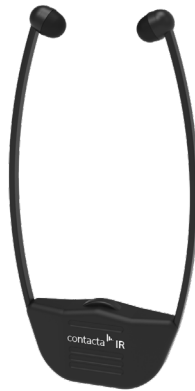
Dimensions	Height – 112mm (4.40") Width – 70mm (2.75") Depth – 22mm (0.86")
Weight	200g (0.44lbs)
Finish	Black

Technical Data:

Receiver Frequencies	2.3MHz / 2.8MHz
Modulation	FM broadband
Frequency Response	60Hz to 12kHz ± 3 dB
Signal-to-Noise Ratio	54dB not weighted
Power Supply	2 AAA alkaline batteries
Usage Period	20 hours
Maximum Output	6mW
Settings	Volume Adjustment
	Channel Selection via Rotary Control

Product Code:

Portable IR Receiver	IR-FX2
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Portable Infrared Earphone Receiver

Our Portable Infrared Earphone Receiver is a two channel under-the-chin receiver, compatible with transmitters using frequencies 2.3MHz and 2.8MHz.

The receiver is easy-to-use, comfortable and can switch between mono and stereo, while its earphones adapt to the outer ear canal thanks to flexible silicone ear pads to reduce ambient noise. It utilises rechargeable batteries.

What's Included

- Portable Infrared Earphone Receiver
- Rechargeable Battery (AAA)
- Transparent Cover

Physical Data:

Dimensions	Height – 225mm (8.85") Width – 95mm (3.74") Depth – 19mm (0.74")
Weight	57g (0.12lbs)
Finish	Black

Technical Data:

Receiver Frequencies	2.3MHz / 2.8MHz
Bandwidth	15 - 20000Hz
Distortion	<1%
Maximum Sound Pressure	120dBA

Product Code:

Portable IR Earphone Receiver	RF-RXU
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5 Bay Infrared Receiver Charger

Our 5 Bay Infrared Receiver Chargers are for use with either the Portable Infrared Receiver (see page 8) or the Portable Infrared Earphone Receiver (see page 9).

These units can hold up to 5 receivers in a standing position.

What's Included:

- 5 Bay Infrared Receiver Charger
- Power Supply

Physical Data:

Dimensions	Height – 305mm (12.0") Width – 160mm (6.29") Depth – 38mm (1.49")
Weight	540g (1.19lbs)
Finish	Black

Technical Data:

Power Supply	12V DC 1000mA
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Product Code:

5 Bay Portable IR Receiver Charger	IR-RX2-DC5
5 Bay Portable IR Earphone Receiver Charger	IR-RXU-DC5

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