IR Rx

Assistive Listening Receiver

Key Features

- 30 Hours life from two AAA batteries
- High frequency modulation, free from lighting interference.
- Inbuilt neck loop complies with EN60118-4
- External headphone connector for non hearing aid wearers
- Ergonomic case design.
- Works with standard NiMH recargeable batteries
- Ideal for museum and tour systems

Description

The IR Rx is a compact receiver for infrared assistive listening systems, and forms the user component in the Infra~Hear™ range of products.

Using high frequency modulation at 2.3MHz the Infra~Hear™ products are immune to interference from energy saving lighting and plasma displays.

The receiver is battery powered from standard AAA batteries with a life of over 30 hours between charges, saving the expence of custom battery packs and chargers.

The volume control has a positive snap, and enables users with limited mobility to use the system.

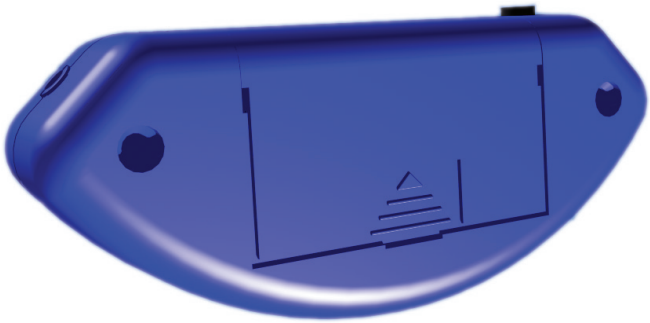
Due to its compact design the unit can be discreetly worn, suspended by the integral neck loop, even when using the external headphone socket.

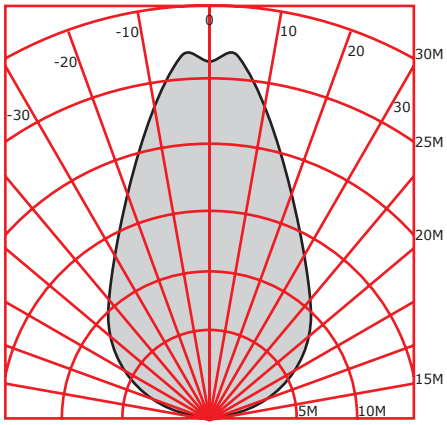
The ability to add external headphones allows the receivers to be used by non hearing aid wearers in museum tour guide systems or for secondary language translation systems, or simply to test operation of the receiver without stocking two receiver types.

Infra red light will not pass through walls, ensuring security in sensitive locations such as courts and council chambers.

Infra~Hear

2 3MHz





Operation

The IR Rx can be used with the INFRA~HEAR transmitter IRMTX750, the graph to the right shows the distance and angle from the transmitter where high quality audio will be heard.

Operation outside this area is possible, especially in rooms with reflective surfaces, however not guaranteed.

Technical Specification

Modulation	wideband FM
Nominal deviation	± 50 kHz
Carrier frequency	2.3 MHz
Audio output power	40mW
Loop Field	400mAM^{-1}
Frequency response	30-18,000 Hz
THD (1 kHz, nom. dev.)	<1%
Audio signal-to-noise ratio	>60 dB(A) rms
Headphone output	3.5mm mono jack
Headphone impedance	Minimum 16 Ω
IR diodes	2@ 875nM
Reception angle	120°

Receiving power	minimum 1mW
Operating voltage	2.3-3.3 V DC
Batteries	2 off AAA
Current consumption	approx. 30 mA
Dimensions	
Height	39mm
Width	110mm
Depth	28mm
loop	400mm Diameter
Weight	approx. 70g

Designed and manufactured in the North East of England by Current Thinking Ltd, registered in England 4610461. Unit 91 Silver Briar, Enterprise Park East, Sunderland, SR5 2TQ, UK.

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