

ILR3 / ILR3+ Audio Induction Loop Receiver

The ILR3 is a high quality audio induction loop receiver which allows the user to listen to an audio frequency induction loop system using a standard pair of stereo headphones (supplied). It has a vertically mounted pick up coil and a low cut filter function to emulate the performance of a hearing aid switched to the T position. It is therefore an essential tool for anyone installing maintaining or managing facilities fitted with induction loops providing them with immediate confirmation that the loop is running. The ILR3+ also has LED indications to show field strength, for more accurate monitoring of a loop system. (To measure the performance of an induction loop system, Ampetronic's calibrated receiver CMR3 must be used). In addition, the ILR3 or ILR3+ can be used by anyone without a hearing aid who needs a little extra assistance to hear.



Features

- **Low distortion**
- **Flat frequency response to 6kHz**
- **Low cut filter—to simulate hearing aid response**
- **Low and high field strength indicators according to IEC60118-4 (ILR3+)**
- **Volume control**
- **5 year warranty**
- **Auto power off with headphone removal**
- **> 100 hours life with 2 AA batteries**

Applications include

- Checking that an induction loop system is working. Essential for installers, venue managers and event organisers
- Recording the output of a loop system
- Providing assistance to people without a hearing aid
- Locating sources of interference
- Checking loop coverage and signal overspill

Low Cut Filter

The ILR3 incorporates a low cut filter. Switching the low cut filter on attenuates the low frequency (bass) components of the signal emulating a typical hearing aid response and helps reduce the annoying 'buzz' caused by some AC power circuits.

For best reception in general use and where there is no low frequency interference, the ILR3 should be used with the 'flat' frequency response selected.

Specification

Frequency response	Standard: Flat 85Hz - 6kHz \pm 0.5dB Low Cut: 400Hz - 6kHz - 3dB (similar to hearing aid)
Output power	>100mW into 16 Ω load
Distortion	<0.5% THD @ 1KHz
Battery powered	2 x Alkaline AA (included)
Battery life	>100 hours with Alkaline batteries
Magnetic field strength Indication (ILR3+ only)	To PPM type II referenced to 400mA/m rms: 'Good' 0dB Green LED 400mA/m rms with sine 'Okay' -6dB Amber LED 400mA/m rms with sine

Physical

Dimensions	width 62mm, depth 26mm, height 112mm
Temperature range	IP20 : 20 to 90% relative humidity, -10 to 45°C

Accessories

Stereo headphones (included)	impedance 32 Ω per side
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Standards Compliance

The ILR3/ILR3+ is CE marked to all relevant safety and EMC standards.

ILR3+ Loop Checking System

The Ampetronic loop checking system, the ILR3+, is designed to allow any user to regularly monitor a loop system. It is simple and highly cost effective, and meets the requirements of the international loop performance standard, IEC 60118-4.

No technical skills are required to perform the basic checks, which allow an operator to listen to the system through headphones, and check that the sound level provided by the loop is sufficient.

The loop checking system comes with an easy to follow procedure for checking any loop system.



ILR3+ front view

ILR3+ rear view



Volume control

Low cut filter

0db indicator (High)

6dB indicator (Low)

Power Indicator

Headphone socket (turns ILR3+ on)

ILR3+ top view

ILR3+ Product Information

Using the ILR3+ for checking a loop system

The ILR3+ is designed to make it simple for anyone to regularly check that a loop system is working, has a field strength of the correct level to provide benefit, and meets the IEC601184- standard.

Field Strength Indicators

As dictated by the international standard, the ILR3+ has two indicators and these are calibrated to illuminate when the field strength is 400mA/m (0dB) or higher (GREEN) and between 200 and 400mA/m (-6 and 0dB) (YELLOW)

Checking Loop System Status

The status of the loop can be easily checked by running continuous speech or music into the loop and monitoring the indicators when the ILR3+ is held in the appropriate location. A simple table on the back of the ILR3+ shows what is acceptable or not.

User Instructions

The ILR3+ comes with a simple user procedure to help guide anyone through the checking process. Using the ILR3+ requires no special knowledge of loop systems or any technical knowledge.

Who can use the ILR3+

The ILR3+ is ideal for regular use by a facilities manager or non-technical member of staff. Regular use will ensure that the provider of the service keeps the loop system working and providing a genuine benefit to the hard of hearing. The ILR3+ is an essential companion to any loop system installation.