DL50/K

DOMESTIC INDUCTION LOOP AMPLIFIER KIT

Our new DL50/K domestic loop amplifier kit includes everything you need to create a high quality induction loop system for a bedroom, living room, TV lounge or study.

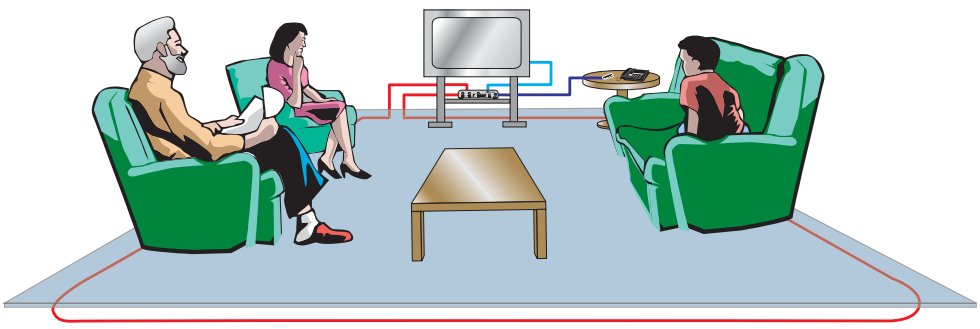
Carefully designed to sit discreetly alongside all types of audio-visual equipment, the amplifier features one set of phono inputs (for direct connection to television sets, etc), two microphone inputs and an alert input (for connection to fire alarms, doorbells, etc).

Screwdriver-adjustable drive, level, mix and tone controls are provided, allowing the system to be tailored to suit the exact requirements of any room, with installation further aided by the provision of an output current meter, an input peak LED and an easy-to-follow installation guide.

- **Ideal for bedrooms, living rooms, TV lounges, studies and other domestic applications**
- **Kit includes a DL50 induction loop amplifier c/w plug-top power supply, 33m of loop cable*, a SCART-to-double-phono audio connection lead and a microphone**
- **Attractively-designed amplifier provides max. square room coverage of 50m² (7m x 7m) or max. rectangular room coverage of up to 100m² (5m x 20m)***
- **Connections provided for two 3.5mm electret microphones (one mic. is provided in the DL50/K kit) and one SCART-to-double-phono audio lead (alternative leads are available for purchase if required)**
- **Simple to adjust, tamper-resistant drive, level, tone and mic. priority controls**
- **Input peak, output current, signal present and power on LEDs**
- **Alert tone input for doorbells, fire alarms, security systems, etc.**
- **Automatic compressor limiter**
- **Full 2Ω drive current capability for increased coverage at higher frequencies**
- **Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993**

***** ***Longer lengths of loop cable may be required for rectangular rooms.***

A typical DL50/K audio-frequency induction loop system:-



WHAT IS AN INDUCTION LOOP SYSTEM?

Induction loop systems allow hearing impaired people to hear more clearly.

Most hearing aids have a 'T' or 'MT' switch which allows them to pick up the electromagnetic field generated by a telephone earpiece. This signal is converted by the hearing aid into a sound suited to its user's specific hearing requirements. An induction loop system uses this same principle but generates a much larger magnetic field than that created by a telephone earpiece and radiates it around a room via a 'loop' of cable. Any hearing impaired person positioned within the loop can hear the loop signal by switching their hearing aid to the correct position.

An induction loop system therefore comprises four main elements:-
The audio source – typically a microphone, a television or a radio (or any combination of these).
The induction loop amplifier.
The loop – a single turn of wire usually run around the perimeter of the room.
The receiver(s) – any behind-the-ear type hearing aid with a 'T' or 'MT' switch.

The size of field required can vary depending on the application, from 1m² for ticket booths or bank counters, to in excess of 600m² for larger installations such as theatres and cinemas. The DL50 amplifier can generate a field of up to 50m² in a square room (7m x 7m) or up to 100m² in a rectangular room (5m x 20m) and is therefore ideal for the vast majority of domestic applications, nursing home TV lounges, etc.

INDUCTION LOOP ANCILLARIES

RXTI INDUCTION LOOP RECEIVER/LISTENER

For testing purposes, we recommend that an RXTi induction loop receiver/listener is purchased and, if possible, supplied with every job.

The RXTi emulates an NHS hearing aid and allows installation engineers to test an induction loop system for audibility, dead spots and overspill during system set-up. If left on-site, the end-user can also use the RXTi to periodically check that the system is working correctly.

The RXTi is supplied in a robust 110 x 56 x 32mm case with a sturdy belt clip and rotary volume control. It requires two AAA batteries and one set of Walkman-style headphones (not supplied).

APT LOOP CONNECTOR PLATE

The APT loop connector plate allows any audio-frequency induction loop amplifier to be quickly connected to a pre-installed loop. It is ideal for nursing homes, schools, interview rooms, conference suites, etc, where it is often impractical to have a permanent loop system fitted but where quick and easy access to one is a must.

The APT mounts on a standard single gang UK back box and uses phono-type connectors.

DL50/K TECHNICAL SPECIFICATION

POWER REQUIREMENTS	12V a.c. 1.5A max (via plug-top power supply)
MAX. COVERAGE AREA	50 square metres (7m x 7m)
CONTROLS	Input signal level control Tone control (boost +16dB; cut -20dB at 1KHz) Loop signal control Microphone priority control (all controls are screwdriver adjustable and recessed to avoid tampering)
INDICATORS	Power on (green) Input signal (red) Loop strength meter (green to yellow to red)
INPUTS	Two 3.5mm mono microphone inputs with phantom power Two phono (line level) inputs (for connection of the SCART to double phono lead supplied) Alert trigger input - normally open (close to trigger)
OUTPUTS	One loop output (via push-and-hold connector) - only use the loop cable supplied. One headphone output (confirms audio input signal level)
DIMENSIONS	40mm (Height); 85mm (Depth);185mm (Width)
WEIGHT	550g (amplifier only)