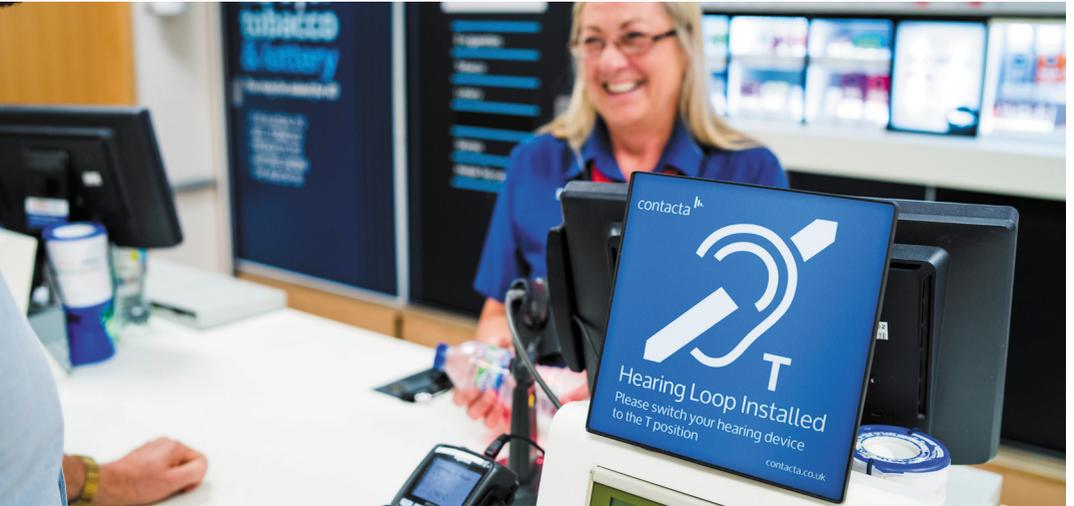contacta

Hearing Loop Systems

Enhance your customer experience by improving accessibility and transforming the listening experience for those with hearing loss

Contents

Did you know?

Hearing loss is a major public health issue affecting 15% of the world's adult population* and a third of over 65 year olds.** This means a significant number of **your potential customers** have **difficulty interacting with you**.

Why is hearing loss a problem in everyday life?

Conversations should be easy and natural. But instead, for those with hearing loss, it becomes a stressful activity which causes fatigue and embarrassment. If your customers cannot hear what your staff are saying, your company becomes difficult to do business with. Many customers with hearing loss even choose to avoid places that are poorly provisioned. If your business provokes uncomfortable situations for customers, the impact could be severe.

*WHO estimate for 2011. **WHO Fact Sheet No. 300, March 2015.

Why should you improve your accessibility?

People are beginning to speak up and **demanding a better experience**. In order to keep up with other customer-focused service providers and fully comply with the Equality Act 2010 and the BS8300 standard, **accessibility needs to be your top priority**.

Don't get left behind!

Technology can be put in place which allows you to realise the full potential of every interaction, **leading to happier customers** and an **enhanced reputation.**

How does a loop transform your customers' experience?

In normal mode, a hearing aid amplifies all sounds, including any background noise. In busy environments this can make it **very tricky for those with hearing loss to distinguish speech or conversation.**

Hearing loop systems overcome this problem. Speech is picked up through a microphone, converted to magnetic impulses by the driver and transmitted via a loop aerial. This magnetic signal is picked up by the telecoil within hearing aids and converted back to speech. Clever stuff!

1 to 1 Hearing Loops

1 to 1 hearing loops enhance customer service by improving accessibility

1 to 1 hearing loops are perfect for use at counters or in situations where inter-action between two people takes place, allowing your customers to engage with your staff freely.

A hearing instrument in "normal mode" amplifies all sounds, including background noise. This can make it very tricky for those with reduced hearing to distinguish recordings, speech or conversation in busy environments. 1 to 1 hearing loop systems overcome this problem.

With a hearing loop, speech is picked up through a microphone, converted to magnetic impulses by the driver and transmitted via a hearing loop aerial. This magnetic signal is picked up by the telecoil within the hearing instrument and converted back to speech, allowing your customers to interact with staff or listen to pre-recorded audio freely.

The above and below counter loops are controlled by our sleek and unique hearing loop driver, offering customers and staff crystal clear sound reproduction and efficient management of power consumption.

Under the Counter Loop System

An Under the Counter Loop System provides clear communication with hearing instrument wearers, especially where background noise is a problem or clear speech is restricted.

It has a flexible, discreet hearing loop aerial that can be bent to shape, allowing it to be tailored to many different counters.
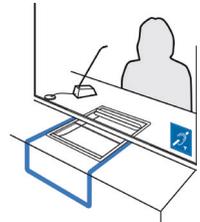
Applications:

For use in any situation where one to one communication takes place at a counter, booth or desk, for example:
• Banks
• Post Offices
• Supermarkets
• Ticket Kiosks
• Information Centres
• Airports

Features:

• Magnetic field strength distance of approximately 1.2m

What's Included:

• 1 to 1 Hearing Loop Driver (see page 18)
• Halo Microphone w/ Stem (see page 22) **or** Halo Microphone w/ Round Base (see page 22) **or** Universal Microphone (see page 23) **or** Discreet Microphone (see page 24)
• Counter Hearing Loop Aerial (see page 19)
• Hearing Loop Signs (see page 20)
• PS-55 Power Supply (see page 21)
• Fixings

Product Codes:

Under the Counter Loop System with Halo Microphone	IL-K200-20-00
Under the Counter Loop System with Brass Stem Halo Microphone	IL-K200-80-00
Under the Counter Loop System with Mouse Microphone	IL-K200-00-00
Under the Counter Loop System with Discreet Microphone	IL-K200-40-00

Physical Data:

Dimensions (boxed)	Height – 80mm (3.15") Width – 320mm (12.6") Depth – 220mm (8.66")
Weight (boxed)	1kg (2.20lbs)

To use the hearing loop facility switch your hearing aid to "T" and STAND HERE

contacta.co.uk

Above the Counter Loop System

The Above the Counter Loop System provides clear communication with hearing instrument wearers, especially where background noise is a problem or clear speech is restricted.

The hearing loop aerial is located within the signage, which is fixed to a counter, desk or glass surface to enable your customers to easily identify the loop and get maximum benefit from it. The unit can be fitted into many positions due to its low profile structure.

Applications:

For use in any situation where one to one communication takes place at a counter, booth or desk, for example:
• Banks
• Post Offices
• Supermarkets
• Ticket Kiosks
• Information Centres
• Airports

Optional Extra:

• Supaloop Aerial Desk Stand (see page 20)

Features:

• Magnetic field strength distance of approximately 800mm

What's Included:

• 1 to 1 Hearing Loop Driver (see page 18)
• Halo Microphone w/ Stem (see page 22) **or** Halo Microphone w/ Round Base (see page 22) **or** Universal Microphone (see page 23) **or** Discreet Microphone (see page 24)
• Supaloop Aerial (see page 19)
• PS-55 Power Supply (see page 21)
• Fixings

Product Codes:

Above the Counter Loop System with Halo Microphone	IL-K300-25-00
Above the Counter Loop System with Brass Stem Halo Microphone	IL-K300-85-00
Above the Counter Loop System with Mouse Microphone	IL-K300-05-00
Above the Counter Loop System with Discreet Microphone	IL-K300-45-00

Physical Data:

Dimensions (boxed)	Height – 80mm (3.15") Width – 320mm (12.6") Depth – 220mm (8.66")
Weight (boxed)	798g (1.76lbs)

Portable Loop

The Portable Loop is a versatile solution, providing mobile assistance for your customers where no fixed loop can be placed. It can be moved between locations as required and is used for conversations between two people.

Applications:

For use in any situation where one to one communication takes place, such as at a desk, bedside, or booth.
- Banks
- Offices
- Information Centres
- Hospitals

What's Included:

- Portable Loop
- Portable Loop Power Supply
- Hearing Loop Sign (see page 20)

Technical Data:

Internal Battery	NiMH battery pack	Battery life (approximate): 4 hours - constant speech 48 hours - standby mode
PSU	Power supply	18VDC
Microphone	–	Electret capsule
Power and Status	Power and status LED indication	Green/red LED
Protection	–	Self-resetting poly fuses, multiple on chip thermal shut down
External Audio In	Connection	3.5mm mono jack
DC Power	Connection	2.1mm DC jack

Features:

The single control unit is constructed in robust ABS plastic and incorporates the microphone, amplifier, hearing loop aerial and rechargeable battery system.
- Magnetic field strength distance of approximately 600mm
- Advanced audio processing features AGC, compression, and noise gate
- Constant-current loop drive
- LED indicator for loop drive and battery status

Accessories

- Small Boundary Microphone (see page 23)
- Portable Loop Shelf (see page 25)

Physical Data:

Dimensions (boxed)	Height – 250mm (9.84") Width – 275mm (10.83") Depth – 110mm (4.33")
Weight (boxed)	1.6kg (3.52lbs)
Construction	ABS Plastic
Finish	Matt Black Fine Texture

Product Code:

Portable Loop UK	IL-PL20-2
Portable Loop Europe	IL-PL20-2-EU
Portable Loop Australia	IL-PL20-2-AUS
Portable Loop US & Japan	IL-PL20-2-US
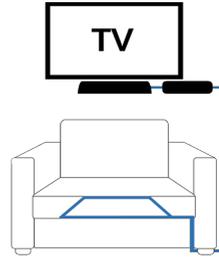
Home Loop Kit

This HLD4 is a domestic hearing loop driver designed to connect to televisions, Hi-fi and other audio devices.

It enables hearing instrument wearers to listen wirelessly directly from the source, providing excellent sound quality. Easy to use volume and tone adjustments delivers superb, clear and personally customised sound direct to the instruments.

This is supplied as a kit, which includes all audio and power cables, fixings and either a reel of copper cable for a perimeter room installation, or an under-cushion Loop Pad.

Suitable for home and business use in small rooms where a television or sound system is present.

Features:

- Optical and coaxial digital audio input
- Separate mains power supply allowing use by DC inputs from 12-24V, one version covers all markets
- Control settings memorised allowing remote power switching
- Digital Rotary volume and Tone controls with LED indication
- Source selection of all inputs from the front panel
- Increased output current 3A RMS and 40m loop cable coverage up to 70m²
- Loop Level Indicator
- Priority Function Control
- Automatic Gain Control
- On/Off Mains Switch
- 2 Microphone Inputs
- 3 Line Inputs

See next page for Physical and Technical Data.

What's Included:

- HLD4 Hearing Loop Driver
- Loop pad with loop aerial built into it,
  or,
  40m hearing loop cable.
- Microphone with a 1.2m cable
- 1 m TOSlink optical lead
- 3.5mm stereo jack plug to 2 x RCA adapter
- 2 x Phono to 2 x Phono lead
- Power Supply

Product Codes:

Home Loop Kit with Loop Cable	RL-HLD4-CL-UK
Home Loop Kit with Loop Pad	RL-HLD4-LP-UK

Physical Data:

Dimensions (Unit)	Height – 180mm (7.01") Width – 140mm (5.51") Depth – 42mm (1.65")
Dimensions (Boxed)	Height – 325mm (12.7") Width – 220mm (8.6") Depth – 80mm (3.1")
Weight (Boxed)	RL-HLD4-CL-UK — 1.58kg (3.48lbs) RL-HLD4-LP-UK — 1.74kg (3.83lbs)
Construction	Mixed
Finish	Silver

Technical Data:

Power Supply	18V 1.5A Power Suply
	12-24V DC 2A External Supply
Controls	Rotary volume control
	Rotary tone control
	On/off power switch
	Source selector switches
	Priority switch
Input Connections	Digital audio TOSlink/Coaxial
	2x Aux In Left/Right line inputs. Phono/RCA sockets. For direct connection to a TV sound output or other suitable socket
	2 x Microphone inputs. 3.5mm mono jack plug. DC powered 5V for electret microphones
Output Connections	Pus grip connectors for loop cable or loop pad (Labelled: Loop Cable)
	3.5mm stereo jack for headphones (Phones) 8-60 Ohms
Loop Output	3.0A RMS (4.25A Peak) output current @ 100-5KHz. Meets BS EN60118-4:2006 for a loop not exceeding 6.5m (20ft) in width. Suitable for areas up to 70m²
	Full output achieved with loop resistance between 0.5 and 1.5 Ohms
Loop Cable	Single turn loop cable. System suppied with 40m (130ft) 24/0.2mm (0.75mm²) single core PVC insulated cable
	Min cable length 11m = 0.5 Ohms
Indicators	Blue/red LEDs

Hearing Loop for Door Entry Systems

This hearing loop is for use with door entry systems, providing clear audio to hearing device wearers.

Applications:

This module will accept input signals from the following:
- Pre-recorded sound sources (line out signals)
- Low voltage loudspeaker outputs
- VOIP (voice over internet protocol) audio adapters
- Intercom systems
- PA systems

Features:

- AGC (Automatic Gain Control) self adjusts to accommodate variations in input level
- Constant-current loop drive
- Ohmically isolated audio line input
- LED status indication – internal indicators display drive and loop fault conditions
- Frequency response compliant with IEC 60118-4 (in correct installations)
- Low power consumption
- IP55 (Ingress Protection Rating) in correct installations

Physical Data:

Dimensions	Length – 128mm (5.03") Length – 128mm (5.03") Depth – 45mm (1.77")
Weight	231g (0.5lbs)
Construction	Acrylic Capped ABS
Finish	Faux Metallic Sheen

Technical Data:

Power Supply	Powered using a host system (12-24V DC) or a Contacta PS-55-01

Product Codes:

Hearing Loop for Door Entry Systems	IL-EL42-PB

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Flush Hearing Loop for Door Entry Systems

This flush hearing loop is for use with door entry systems, providing clear audio to hearing device wearers.

Optional Accessories:

- Power Lead [CA-10-02] (Note: Required if power from a host system is not available)

Applications:

This module will accept input signals from the following:

- Pre-recorded sound sources (line out signals)
- Low voltage loudspeaker outputs
- VOIP (voice over internet protocol) audio adapters
- Intercom systems
- PA systems

Features:

- AGC (Automatic Gain Control) self adjusts to accommodate variations in input level
- Constant-current loop drive
- Ohmically isolated audio line input
- LED status indication – internal indicators display drive and loop fault conditions
- Frequency response compliant with IEC 60118-4 (in correct installations)
- Low power consumption
- IP55 (Ingress Protection Rating) in correct installations

Technical Data:

Loop Drive Compliance	Constant current, bounded by 4V RMS & 2A RMS
Inputs	3.5mm TRS audio jack
	Screw terminals on 2.54mm Euro-block
Loop Output	Screw terminals on 5mm 2-way Euro-block
Power	14V DC 2.14A via 2.1mm (from CA-10-02 or host system)

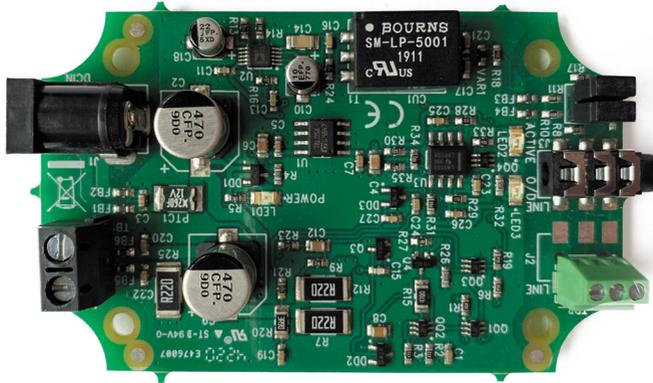## Physical Data:

Dimensions	Length – 128mm (5.03") Length – 128mm (5.03") Depth – 45mm (1.77")
Weight	231g (0.5lbs)
Construction	Acrylic Capped ABS
Finish	Faux Metallic Sheen

Product Codes:

Flush Hearing Loop for Door Entry Systems	IL-EL42-PF

Integrated Hearing Loop Driver

An Integrated Hearing Loop Driver is designed to be incorporated into third party manufacturers' equipment. It provides an integral solution to machines and equipment requiring a hearing loop driver.

Features:

- AGC (Automatic Gain Control) self adjusts to accommodate variations in input level
- Constant-current loop drive
- Audio line input is ohmically isolated
- No adjustments required
- LED status indication: LEDs show drive and loop fault conditions
- Frequency response compliant with IEC 60118-4 when correctly driven and connected to an aerial with suitable characteristics
- Low power consumption
- Can be powered from host system (12 - 14V DC) or from a suitable DC power supply (12V-14V)

Technical Data:

Loop Drive Compliance	Constant current, bounded by 4V RMS & 2A RMS
Inputs [IL-A42]	3.5mm TRS audio jack
	Screw terminals on 2.54mm Euro-block
Inputs [IL-A42-02]	2 x 3.5mm TRS audio jack
Loop Output	Screw terminals on 5mm 2-way Euro-block
Power	14V DC 2.14A via 2.1mm (from PS-55 or host system)

Physical Data:

Dimensions	Length – 78mm (3.07") Width – 48mm (1.88") Depth – 12mm (0.47")
Weight (boxed)	28g (0.06lbs)
Construction	Standard FR4 PCB material
Finish	Bare PBC

Product Code:

Integrated Hearing Loop Driver	IL-A42
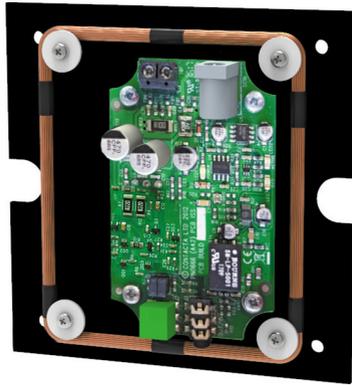
Integrated Hearing Loop

This Integrated Hearing Loop is designed to be incorporated into third party manufacturers' equipment. It provides an integral solution to machines and equipment requiring a hearing loop.

Optional Accessories:
- Power Lead [CA-10-02] (Note: Required if power from a host system is not available)

Applications:

This module will accept input signals from the following:
- Pre-recorded sound sources (line out signals)
- Low voltage loudspeaker outputs
- VOIP (voice over internet protocol) audio adapters
- Intercom systems
- PA systems

Features:
- AGC (Automatic Gain Control) self adjusts to accommodate variations in input level
- Constant-current loop drive
- Ohmically isolated audio line input
- LED status indication – internal indicators display drive and loop fault conditions
- Frequency response compliant with IEC 60118-4 (in correct installations)
- Low power consumption

Technical Data:

Loop Drive Compliance	Constant current, bounded by 4V RMS & 2A RMS
Inputs	3.5mm TRS audio jack
	Screw terminals on 2.54mm Euro-block
Loop Output	Screw terminals on 5mm 2-way Euro-block
Power	14V DC 2.14A via 2.1mm (from CA-10-02 or host system)

Physical Data:

Dimensions	Height – 105mm (4.13") Width – 105mm (4.13") Depth – 23mm (0.90")
Weight	122g (0.26lbs)
Construction	Various

Product Codes:

Flush Hearing Loop for Door Entry Systems	IL-EL42-L

Integrated Hearing Loop and Sign

The Integrated Hearing Loop and Sign is designed to be incorporated into third party manufacturers' equipment, provided foam casing around the outside of its sign for ease of installation. It provides an integral solution to machines and equipment requiring both a hearing loop and signage.

Optional Accessories:

- Power Lead [CA-10-02] (Note: Required if power from a host system is not available)

Applications:

This module will accept input signals from the following:

- Pre-recorded sound sources (line out signals)
- Low voltage loudspeaker outputs
- VOIP (voice over internet protocol) audio adapters
- Intercom systems
- PA systems

Features:

- AGC (Automatic Gain Control) self adjusts to accommodate variations in input level
- Constant-current loop drive
- Ohmically isolated audio line input
- LED status indication – internal indicators display drive and loop fault conditions
- Frequency response compliant with IEC 60118-4 (in correct installations)
- Low power consumption

Technical Data:

Loop Drive Compliance	Constant current, bounded by 4V RMS & 2A RMS
Inputs	3.5mm TRS audio jack
	Screw terminals on 2.54mm Euro-block
Loop Output	Screw terminals on 5mm 2-way Euro-block
Power	14V DC 2.14A via 2.1mm (from CA-10-02 or host system)

Physical Data:

Dimensions	Height – 105mm (4.13") Width – 105mm (4.13") Depth – 30mm (1.18")
Weight	159g (0.35lbs)
Construction	Various

Product Codes:

Flush Hearing Loop for Door Entry Systems	IL-EL42-L2

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ID-6/ID-6B Hearing Loop Driver

The ID-6 hearing loop driver is designed for seamless integration into various OEM equipment requiring a hearing loop output.

The ID-6 boasts high output voltage and current for compatibility with a range of loop configurations. Its efficient design, transformer isolated audio input, and optional battery backup offers a high efficiency solution with flexible mounting options

Note: The battery backup feature is only available on the ID-6B model.

Applications:
Suitable for applications such as:
- Digital Signage / Advertising Displays
- Retail Counters / Automated Checkouts
- Help / Call Points
- Intercoms / Door Entry Systems
- Lifts / Elevators

Accessories:
- Battery Back Up Pack [BATT-ID6B]

Features:
- Compact dimensions
- Flexibe mounting options
- Bare wire connections
- Wide operating power supply range 12V-24V DC
- High output voltage* (7.5Vrms-15V), allowing a wide array of loops to be used
- High output current, up to 5Arms
- High efficiency
- Audio input is transformer-isolated
- Battery back up option (ID-6B required)

What's Included:
- ID-6/ID-6B Hearing Loop Driver
- Battery Backup Box [ID-6B only] (see next page)
- 4 x Mounting Screws
- 4 x Wall Plugs

Physical Data:

Dimensions	Height – 94.4mm (3.7") Width – 165mm (6.5") Depth – 16.4mm (0.6")
Weight	350g (0.77lbs)
Construction	Mid Steel
Finish	Black Powder Coated

Product Code:

ID-6 Hearing Loop Driver UK	ID-6-UK
ID-6B Hearing Loop Driver with Battery Back-Up Pack	ID-6B-UK

Technical Data:

Power	Voltage	12V - 24V DC
	Current	2.5A - 4.17A
	Power Supply	External PSU (not supplied)
Inputs	1V Line Level (or) 75V Line Level	1 x 1V Line Level (from computer, etc) transformer isolated, 3.81mm screw terminal (bare wire)
		1 x 75V Line Level, transformer isolated, 3.81mm screw terminal (bare wire)
	Microphone	1 x Microphone, selectable 12V phantom balanced via 680Ω / 5V single ended electret
Output Characteristics	Output Voltage	7V (19.79Vpk-pk) - 15Vrms (42.3Vpk-pk) @ 5Arms (14.14Apk-pk) dependent on PSU voltage
	Output Current	5Arms (14.14Apk-pk) on audio peaks
	Loop Connector	3.81mm screw terminal (bare wire)
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB)
	HF Comp	Adjustable
Controls	Adjustable	Rotary trimmers
Automatic Gain Control	Peak detecting	Optimised for speech
Feature	Cooling	No external heatsink required
	Indications	LED indications for 'Input OK' / 'Drive' / 'Clip' / 'Fault' / 'Power'

Battery Backup Box

This Battery Backup Box is a dedicated power supply solution for use with Contacta's ID-6B Hearing Loop Driver. It provides reliable backup power, safeguarding critical hearing loop operations in the event of power failure, by offering approximately 8 hours of operation.

The device's battery is recharged automatically when connected to a power source.

Note: This product is not to be used as an emergency announcement system.

Physical Data:

Dimensions	Height – 265mm (10.43") Diameter – 49mm (1.92")
Weight	400g (0.88lbs)
Construction	ABS Plastic
Finish	Dark Grey Fine Texture

Features:
- Provides a reliable backup power supply solution for the ID-6B Hearing Loop Driver, ensuring uninterrupted operation

Technical Data:

Internal Battery	NiMH battery pack	Battery life (approximate): >8 hours under ideal conditions

Product Code:

Battery Backup Box	BATT-ID6B

1 to 1 Hearing Loop Driver

This innovative 1 to 1 Hearing Loop Driver is a special type of audio amplifier designed especially for driving hearing loops.

Features:

- Microprocessor control
- Energy-saving "green" standby mode is achieving a power saving of up to 80% during quiet periods
- Advanced audio processing features AGC, compression, and noise gate
- Constant-current loop drive
- Continuous self-testing
- Isolated audio line input allows the driver to take alternative audio sources (optional)
- Power and LED status indication

Components:

- PS-55 Power Supply (see page 23, sold separately)

Physical Data:

Dimensions	Height – 116mm (4.57") Width – 116mm (4.57") Depth – 40mm (1.57")
Weight	120g (0.26lbs)
Construction	ABS Plastic Construction Housing
Finish	Matt Black Fine Texture

Product Code:

1 to 1 Hearing Loop Driver	HLD2

Technical Data:

Inputs	Input 1 (Microphone)	Screw terminals on 3.8mm 2 pole Phoenix connector Single-ended electret microphone, powered by 5V via 2.2K Ω
	Input 2 (Line) (Optional)	Screw terminals on 3.8mm 2 pole Phoenix connector Transformer isolated, 0dBu into 1K Ω, may have series resistance added for optional 75V or 100V line inputs
	Power	Centre positive power jack, 14V DC 2.14A via 2.1mm from our power supply unit (PS-55)
Loop Output	Loop connection	Screw terminals on 3.8mm 2 pole Phoenix connector
	Loop drive current	2Arms compliance current @ 1kHz sine wave
	Loop drive voltage	4Vrms compliance voltage @ 1kHz sine wave
Audio	Frequency response	100Hz – 5kHz (±3dB)
	Distortion	Better than -40dB, inputs at nominal level
Automatic Gain Control	Processor controlled	Dynamic range: 40dB typical Attack time: 10 milliseconds Release time: typically 10 seconds, varies with program content
Indications	Status LEDs	3 colour LEDs indicate power, input and output diagnostic information Connection provided for our LED halo indicator microphone
Self Test	Microprocessor controlled	Unit, including microphone and loop connections is continuously monitored, and internal and external LED indicators are updated
Energy Saving	Sound activated	Unit will enter low energy "sleep" mode when acoustic conditions indicate lack of usage

Counter Hearing Loop Aerial

The Counter Hearing Loop Aerial is for use with the Under the Counter Loop System (see page 8), which is fixed under desks or counters.

When connected to the 1 to 1 Hearing Loop Driver (see page 20), it transmits a magnetic field enabling the telecoil in the hearing instrument to receive a signal from our hearing loop driver.

It should be positioned within 1.2m of the user's hearing instrument and secured using self-adhesive clips, P-clips or hot glue. It is flexible and can be moulded into the desired shape.

Physical Data:

Dimensions	3.96m (156.00") length cable which can be moulded on site to required size/shape by installers
Weight	100g (0.22lbs)
Construction	Copper Wire with Black Protective Covering
Finish	Black PVC

Product Code:

Counter Hearing Loop Aerial	IL-AE99

Supaloop Aerial

The Supaloop Aerial is a hearing loop aerial built inside of our blue hearing loop sign.

The aerial transmits a magnetic field when connected to the 1 to 1 Hearing Loop Driver (see page 20), enabling the telecoil in a hearing instrument to receive a signal from drivers.

The aerial should be positioned within 800mm from the user's hearing instrument. It can be fixed in place using double sided tape or cable ties, placed with a stand on a flat surface, or fixed to glass screens.

To use the hearing loop facility switch your hearing aid to "T" and STAND HERE

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Physical Data:

Dimensions	Height – 205mm (8.07") Width – 205mm (8.07") Depth – 5.4mm (0.21") Connection Cable Length – 2m (78.74")
Weight	200g (0.44lbs)
Construction	Various
Finish	Various

Compatible With:

• Supaloop Aerial Desk Stand (sold separately, see page 22)

Product Code:

Supaloop Aerial	IL-AE97-00

Hearing Loop Signs

As hearing loops are often installed out of sight, it is important to make people aware where a hearing loop is available. Signs should be clearly placed wherever there is a hearing loop installed.

Signs are available as either stand-up signs or stickers, available for both portable and fixed loops. Stickers are available with either an adhesive back or an adhesive front.

Physical Data:

Dimensions (Adhesive)	Width – 90mm (3.54") Height – 100mm (3.94") Depth – 0.22mm (0.01")
Dimensions (Stand-Up)	Width – 95mm (3.74") Height – 105mm (4.13") Depth – 50mm (1.96")
Weight	40g (0.08lbs)
Construction	Various
Finish	Reflective Matt PVC Surface

Product Code:

Adhesive Back Fixed Loop Sign	IL-SN01
Adhesive Front Fixed Loop Sign	IL-SN02
Adhesive Back Portable Loop Sign	IL-SN05
Adhesive Front Portable Loop Sign	IL-SN06
Stand-Up Fixed Loop Sign	IL-SN12
Stand-Up Portable Loop Sign	IL-SN10

Supaloop Aerial Desk Stand

This desk stand attaches to the Supaloop Aerial (see page 21).

The aerial fixes to the stand using a double-sided adhesive pad.

Compatible With:
*   Supaloop Aerial (sold separately, see page 21)

Physical Data:

Dimensions	Height – 109mm (4.29") Width – 140mm (5.51") Depth – 60mm (2.36")
Weight	400g (0.88lbs)
Construction	Aluminium
Finish	Black Powder Coated

Product Code:

Supaloop Aerial Desk Stand	IL-SD01

PS-55 Power Supply

The PS-55 Power Supply is a Level VI power supply for use with:

• Under the Counter Loop System (see page 8)
• Above the Counter Loop System (see page 9)
• Home Loop Kit (see page 11)

Complies with UL, RCM, KC, FCC, CE (EMC), and CCC standards.

All power supplies come with a region-specific IEC lead 2 metres in length as standard.

Physical Data:

	PS-55 Power Supply	IEC Lead
Dimensions	Height – 99mm (3.89") Width – 52mm (2.04") Depth – 36mm (1.42") Cable Length – 1.8m (70.87")	Cable Length – 2m (78.7")
Weight	180g (0.39lbs)	90g (0.2lbs)
Construction	ABS Plastic	PVC
Finish	Black	Black

Technical Data:

Input	100-240V – 50-60Hz
Output	14V 2.14A 30W max.

Product Code:

PS-55 Power Supply w/ IEC UK	PS-55-01-UK
PS-55 Power Supply w/ IEC Europe	PS-55-01-EU
PS-55 Power Supply w/ IEC Switzerland	PS-55-01-CH
PS-55 Power Supply w/ IEC US & Japan	PS-55-01-USJ
PS-55 Power Supply w/ IEC Australia	PS-55-01-AUS

Halo Microphone with Stem

The Halo Microphone with Stem features noise cancelling and a halo light indication at the base of the microphone stem. The halo lights up green when the system is working correctly and red when a fault is detected.

It can be either screwed down or mounted using a standard self-adhesive pad, while the microphone is available in metal or without a halo LED indication.

Physical Data:

Dimensions	Height – 70mm (2.76") Width – 40mm (1.58") Length – 100mm (3.94")
Weight	Plastic Stem – 65g (0.14lbs)
	Metal Stem – 80g (0.18lbs)
Construction	Plastic Stem – ABS Plastic
	Metal Stem – ABS Plastic & Metal
Finish	Plastic Stem – Pin Seal Texture
	Metal Stem – Pin Seal Texture Satin Black

Technical Data:

Directional Response	Cardioid
Frequency Response	70Hz - 14kHz
Sensitivity	-46dBv @ 1kHz
Distortion	Typically less than 1%

Product Codes:

Halo Microphone with Stem	STS-M72
Halo Microphone without LED	STS-M73
Halo Microphone with Metal Stem	STS-M98

Halo Microphone with Round Base

This Halo Microphone with Round Base is on a round base for easy mounting, and is a compact, unobtrusive solution.

It features noise cancelling and a halo light indication at the base of the microphone stem. The halo lights up green when the system is working correctly and red when a fault is detected.

Physical Data:

Dimensions	Diameter (base) – 41mm (1.61") Height – 340mm (13.38")
Weight	37g (0.08lbs)
Construction	ABS Plastic
Finish	Pin Seal Texture

Technical Data:

Directional Response	Cardioid
Frequency Response	70Hz - 14kHz
Sensitivity	-67dB +/- 3dB @ 1kHz
Impedance	1.6K Ohms =/- 30% @ 1KHz

Product Code:

Halo Microphone with Round Base	STS-M74-01

Universal Microphone

An omnidirectional Universal Microphone is suitable for use on the customer side. It can be either screwed down or mounted using a standard self-adhesive pad.

Ideal for environments with low ambient noise levels.

Technical Data:

Directional Response	Omni-Directional
Frequency Response	20Hz - 20kHz
Sensitivity	-42±3dB
Impedance (Ω)	2.2K
S/N Ratio (dBA)	60

Physical Data:

Dimensions	Height – 36mm (1.41") Width – 36mm (1.41") Depth – 12mm (0.47") Cable Length – 2m
Construction	ABS Plastic
Finish	Black Fine Texture

Product Code:

Universal Microphone	STS-M15

Flexible Gooseneck Microphone

The Flexible Gooseneck Microphone is a free-standing directional microphone for the staff side, with a 300mm flexible gooseneck shaft and round base.

Technical Data:

Directional Response	Cardioid
Frequency Response	150Hz – 10.5kHz
Sensitivity	49.5dB+ 2dB @ 1kHz (0dB=1V/pa)
Impedance	1.6K Ohms+ 3-% @ 1kHz

Physical Data:

Dimensions	Diameter (base) – 70mm (2.75") Height – 340mm (13.38")
Weight	950g (2.09lbs)
Construction	Mild Steel
Finish	RAL 9006 Powder Coated

Product Code:

Flexible Gooseneck Microphone	STAFFMIC-01-NWB

Discreet Microphone

The Discreet Microphone is a compact solution for mounting to tills or computer screens.

It is fitted using an attached bolt and comes with a double-sided connector. It is also available with a right-angled bracket for fixing on to surfaces.

Technical Data:

Directional Response	Cardioid
Frequency Response	70Hz - 14kHz
Sensitivity	-67dB +/- 3dB @ 1kHz
Impedance	1.6K Ohms =/- 30% @ 1KHz

Physical Data:

Dimensions	Height – 70mm (2.76″) Width – 40mm (1.58″) Length – 100mm (3.94″)
Weight	65g (0.14lbs)
Construction	ABS Plastic
Finish	Satin Black

Product Codes:

Discreet Microphone	STS-M74
Discreet Mic. w/ Right-Angled Bracket in Grey	STS-M74-02
Discreet Mic. w/ Right-Angled Bracket in Black	STS-M74-02-B

Portable Loop Shelf

A Portable Loop Shelf is an ideal storage unit and charging location for the Portable Loop (see page 10). This is achieved by simply routing the power supply through a cut-out in the base of the shelf and connecting it to the Portable Loop.

The shelf is supplied with wall fixings.

Physical Data:

Dimensions	Height – 206mm (8.11") Width – 316mm (12.44") Depth – 152mm (5.98")
Weight	820g (1.81lbs)
Construction	Polycarbonate
Finish	Transparent Clear

Product Code:

Portable Loop Shelf	IL-PL26

Loop Listener

The Loop Listener is a compact listening device for interaction with hearing loop systems. It enables people to listen to a hearing loop system as if they were wearing a hearing instrument switched to the "T" position.

Applications:
- Test if a hearing loop system is functioning
- For use by a person with hearing difficulty who either does not wear a hearing device or their hearing device has no "T" function

Features:
- Flat frequency response
- Low cut filter
- More than 100 hours life when used with 2 x AAA batteries (included)
- Includes headphones

Physical Data:

Dimensions (boxed)	Height – 240mm (9.45") Width – 165mm (6.50") Depth – 40mm (1.58")
Weight (with headphones)	550g (1.21lbs)
Construction	ABS Plastic
Finish	Black

Technical Data:

Output power	<0.5% THD @ 1kHz
Distortion	10mW @ 1kHz (16Ω)

Product Code:

Loop Listener	IL-RX20

Large Area Hearing Loops

Large area loops enhance the customer experience by improving accessibility

Large area loops allow multiple hearing instrument wearers to hear music and speech with complete clarity. Whether in a small meeting room, a classroom, or even a sports stadium, we can install discreet large area hearing loops to your specification.

At Contacta we do things differently. Our talented team design innovative and customer-centric hearing loop drivers, which use the latest Class D and DSP technology to offer superior quality sound reproduction for both speech and music. The technology we put inside these drivers means there is no sound distortion (with a correct installation), guaranteeing the best performance for the end user.

Every room is different. We specify loops in a unique way, taking into account the use, make up and size of each room to ensure that your customers get the best listening experience. Without proper installation, even the best loop driver will not perform to its best so we highly recommend that you get in touch with us and we can recommend the perfect way to install your loop.

V7+ Hearing Loop Driver

Our highly efficient and compact V7+ is a constant current, single output hearing loop driver, suitable for smaller facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around an advanced DSP core. Combined with a powerful CPU to ensure peak performance, the V7+ uses cutting edge technology proven in the pro audio world to achieve life-like speech and first-class music reproduction.

Applications:

Suitable for small facilities such as:
- Meeting rooms
- Classrooms
- Care & nursing rooms
- Waiting rooms

What You Will Need:

- Length of wire or cable dependant on room size and type (see pages 57-59)
- Audio input such as a microphone (see pages 51-53 for our range) or sound system source

Accessories:

- Single V Series Mounting Bracket (see page 49)
- Dual V Series Mounting Shelf (see page 49)
- Blanking Plate for Dual V Series Mounting Shelf (see page 49)
- 6U Rack Cabinet (see page 48)

Features:

- Class-D amplifier output stage capable of delivering 5A$_{RMS}$ @ >7.5V$_{RMS}$
- DSP controlled automatic gain control and high frequency compensation for metal loss
- Selectable high pass filter (Off/150Hz/180Hz)
- Adjustable audio time delay up to 70ms
- Switchable AGC ON/OFF
- Enhanced loop diagnostics with continuous self testing
- High efficiency with true constant current output stage
- On-screen alerts for loop faults

What's Included:

- V7+ Hearing Loop Driver
- 2 x Large Area Hearing Loop Signage
- PS-55 Power Supply (see page 56)
- 5.08mm Euro-Block Connector
- 2 x 3.81mm Euro-Block Connector

Technical Data:

Power Supply	30W 14Vdc 2.14A via External PSU (PS-55) Class 6 External PSU (100V -240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680Ω) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	1 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	7.5Vrms (21.21Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-Block
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB)
	AGC	Switchable (ON/OFF)
	HF Comp	7 Optimised Stages
	Acustic Time Delay	10ms to 70ms adjustable in 1ms steps
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring & Protection	Main Display	Open circuit loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal heatsink with thermal protection

*Note 1: Z=1.4Ω (133uH +0.685Ω @ 1.6kHz) Note 2: < 1% (-40dB distortion)

Physical Data:

Dimensions	Height – 42mm (1.65") Width – 196mm (7.80") Depth – 132mm (5.20") [150mm (5.90") including XLR and control dial]
Weight	938g (2.06lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V7+ Hearing Loop Driver UK	V7-PLUS-UK
V7+ Hearing Loop Driver Europe	V7-PLUS-EU
V7+ Hearing Loop Driver Australia	V7-PLUS-AUS
V7+ Hearing Loop Driver US & Japan	V7-PLUS-USJ

V15+ Hearing Loop Driver

The highly efficient and compact V15+ is a constant current, single output hearing loop driver, suitable for medium-sized facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around an advanced DSP core. Combined with a powerful CPU to ensure peak performance, the V15+ uses cutting edge technology proven in the pro audio world to achieve life-like speech and first-class music reproduction.

Applications:
Suitable for medium sized facilities such as:
- Meeting rooms
- Classrooms
- Care & nursing rooms
- Waiting rooms
- Lecture halls

What You Will Need:
- Length of wire or cable dependant on room size and type (see pages 57-59)
- Audio input such as a microphone (see pages 51-53 for our range) or sound system source

Accessories:
- Single V Series Mounting Bracket (see page 49)
- Dual V Series Mounting Shelf (see page 49)
- Blanking Plate for Dual V Series Mounting Shelf (see page 49)
- 6U Rack Cabinet (see page 48)

Features:
- Class-D amplifier output stage capable of delivering 5A$_{RMS}$ @ >15V$_{RMS}$
- DSP controlled automatic gain control and high frequency compensation for metal loss
- Selectable high pass filter (Off/150Hz/180Hz)
- Adjustable audio time delay up to 70ms
- Switchable AGC ON/OFF
- Enhanced loop diagnostics with continuous self testing
- High efficiency with true constant current output stage
- On-screen alerts for loop faults

What's Included:
- V15+ Hearing Loop Driver
- 2 x Large Area Hearing Loop Signage
- PS-60 Power Supply (see page 56)
- 5.08mm Euro-Block Connector
- 2 x 3.81mm Euro-Block Connector

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

Technical Data:

Power Supply	100W 24Vdc 4.17A via External PSU (PS-60) Class 6 External PSU (100V-240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680Ω) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	1 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	15Vrms (42.3Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-Block
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB)
	AGC	Switchable (ON/OFF)
	HF Comp	7 Optimised stages
	Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring and Protection	Main Display	Open Circuit Loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal Heatsinks with thermal protection

*Note 1: Z=3Ω (265.4uH + 1.37Ω @ 1.6KHz), **Note 2**: 1% (-40dB) distortion)

Physical Data:

Dimensions	Height – 42mm (1.6") Width – 196mm (7.80") Depth – 132mm (5.20") [150mm (5.90") including XLR and control dial]
Weight	938g (2.06lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V15+ Hearing Loop Driver UK	V15-PLUS-UK
V15+ Hearing Loop Driver Europe	V15-PLUS-EU
V15+ Hearing Loop Driver Australia	V15-PLUS-AUS
V15+ Hearing Loop Driver US & Japan	V15-PLUS-USJ

V15a+ Hearing Loop Driver

The highly efficient and compact V15a+ is a constant current, dual output hearing loop driver, with integral phase shifter for phased array configuration. The V15a+ is suitable for small and medium sized facilities and venues.

It has Class-D amplifier output stages and an audio subsystem built around an advanced DSP core. Combined with a powerful CPU to ensure peak performance, the V15a+ uses cutting edge technology proven in the pro audio world to achieve life-like speech and first-class music reproduction.

Applications:

Suitable for small and medium sized facilities such as:
• Meeting rooms
• Classrooms
• Care & nursing rooms
• Waiting rooms
• Lecture halls

What You Will Need:

• Length of wire or cable dependant on room size and type (see pages 57-59)
• Audio input such as a microphone (see pages 51-53 for our range) or sound system source

Accessories:

• Single V Series Mounting Bracket (see page 49)
• Dual V Series Mounting Shelf (see page 49)
• Blanking Plate for Dual V Series Mounting Shelf (see page 49)
• 6U Rack Cabinet (see page 48)

Features:

• Class-D amplifier output stage capable of delivering 2 x 5A$_{RMS}$ @ >15V$_{RMS}$
• DSP controlled automatic gain control and high frequency compensation for metal loss
• Selectable high pass filter (Off/150Hz/180Hz)
• Adjustable audio time delay up to 70ms
• Switchable AGC ON/OFF
• Enhanced loop diagnostics with continuous self testing
• High efficiency with true constant current output stage
• On-screen alerts for loop faults

What's Included:

• V15a+ Hearing Loop Driver
• 2 x Large Area Hearing Loop Signage
• PS-60 Power Supply (see page 56)
• 2 x 5.08mm Euro-Block Connector
• 2 x 3.81mm Euro-Block Connector

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

Technical Data:

Power Supply	100W 24V 4.17A via External PSU (PS-60) Class 6 External PSU (100V -240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680Ω) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	2 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	15Vrms (42.3Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-Block
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <0.3% (-50.5dB) Full current both outputs driven
	AGC	Switchable (ON/OFF)
	HF Comp	7 optimised stages
	Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring and Protection	Main Display	Open circuit loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal Heatsinks with thermal protection

*Note 1: Z=3Ω (265.4uH + 1.37Ω @ 1.6KHz), **Note 2**: 1% (-40dB) distortion)

Physical Data:

Dimensions	Height – 42mm (1.65")
	Width – 196mm (7.80")
	Depth – 132mm (5.20")
	     [150mm (5.90") including
	     XLR and control knob]

Weight	978g (2.15lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V15a+ Hearing Loop Driver UK	V15A-PLUS-UK
V15a+ Hearing Loop Driver Europe	V15A-PLUS-EU
V15a+ Hearing Loop Driver Australia	V15A-PLUS-AUS
V15a+ Hearing Loop Driver US & Japan	V15A-PLUS-USJ

V22+ Single Output Hearing Loop Driver

The V22+ is a powerful constant current, single output hearing loop driver which contains a high power Class D output stage. It is suitable for hearing loop systems in medium to large venues for perimeter and figure-eight loop layouts.

The audio subsystem is built around an advanced DSP Core with microprocessor control. This modern driver delivers an optimal combination of efficient performance and power. It provides a high-spec and feature-rich interface which is easily controlled from the LCD display.

The built-in Line Output allows for additional V22+ drivers to be chained from the first.

Applications:

Suitable for medium-sized venues such as:
• Meeting & conference rooms
• Lecture halls
• Places of worship
• Nursing & care homes
• Reception & waiting areas
• Gyms & sports halls
• Auditoriums & theatres

What You Will Need:

• Length of wire or cable dependant on room size and type (see pages 57-59)
• Audio input such as a microphone (see pages 51-53 for our range) or sound system source

Accessories:

• 6U Rack Cabinet (see page 48)
• XLR to Euroblock Adaptor Cable

Features:

• DSP controlled automatic gain control and high frequency compensation for metal loss
• Class-D amplifier output stage capable of delivering 12ARMS @ >22VRMS
• Ultra-efficient power (up to 90% efficient)
• Switchable AGC (ON/OFF)
• High Pass Filter removes low frequency noise
• Simple user interface
• Backlit LCD display
• Sleep mode
• Continuous self-testing
• Integrated protection circuits with temperature, voltage, short circuit and DC detection
• 1U chassis

What's Included:

• V22+ Hearing Loop Driver
• 2 x Large Area Hearing Loop Signage
• IEC Power Lead
• Rack Brackets
• 4 x Rubber Feet

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

Technical Data:

Power (IEC Connection)	Voltage		100V-120V /200V-240V AC (Universal auto switching)
	Power		175W
	Frequency		50Hz-60Hz
Inputs	Input A / Isolated	Line	3.5mm Euro-block [optimised for -10dBV to 0dBv]
		100V (Isolated)	100V Line Input (Transformer isolated) 3.5mm Euroblock
		Line (Isolated)	3.5mm Euroblock [Transformer Isolated, optimised for -10dBV to 0dBv]
	Input B	Universal	Input B Line/Mic. (12V phantom power via 680Ω) [optimised for levels > -45dBv to -10dBv] 3.5mm Euroblock
Loop Outputs	Outputs Voltage		1 x 22Vrms (62.04Vpk-pk) @ 12Arms (33.84Apk-pk)*
	Output Current		1 x 12Arms (33.84Apk-pk) up to 300 seconds
	Loop Connector		1 x 4 Way 5.08mm Euro-block
Line Outputs	Outputs Voltage		1 - 2Vrms
	Connector		1 x 3.5mm Euroblock
Audio System	Frequency Response		80Hz to 9kHz
	Distortion		THD+N <1% (-40dB)
	Automatic Gain Control		Switchable (Peak detecting) on or off
	High Pass Filter		For removal of low frequency noise
	High Frequency Compensation		7 DSP controlled, optimised stages
	Acoustic Time Delay		10ms to 70ms adjustable in 1ms steps
Display	LED backlit LCD display with backlight time-out		
Control	Single rotary push control		
Front Panel LED	Output voltage clipping		
Fault Monitoring and Protection	Temperature, fan speed, PSU fault, loop open, loop impedance error		

*Note 1: Z=1.83Ω (162uH +0.838Ω @ 1.6kHz), Note 2: < 1% (-40dB) distortion, Note 3: The minimum loop resistance (DCR) is 0.25Ω

Physical Data:

Dimensions	Height – 44.2mm (1.74") Depth – 165.4mm (6.51") Width – 432.9mm (17.04")
Weight	3.2kg (7.05lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V22+ Hearing Loop Driver UK	V22-PLUS-UK
V22+ Hearing Loop Driver Europe	V22-PLUS-EU
V22+ Hearing Loop Driver Australia	V22-PLUS-AUS
V22+ Hearing Loop Driver US & Japan	V22-PLUS-USJ

V22a PRO Hearing Loop Driver

The highly efficient and powerful V22a PRO is a constant current hearing loop driver with dual output for phased array loops. It is designed for medium-sized facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around advanced digital systems including an ARM Cortex processor and dual DSPs. Combined with a powerful CPU to ensure peak performance, the V22a PRO provides self-monitoring and email alerts, remote setup over local area networks, guided hearing loop setup to make installation simple, and excellent speech and music reproduction.

Features:

- Inbuilt guided hearing loop setup utilising an integral test signal generator
- Intelligent self-monitoring system supplies status emails on changes to driver functions
- Dual-DSP controlled automatic gain control and high frequency compensation for metal loss
- Class-D amplifier output stage capable of delivering x2 >22.6 VRMS @ 8A RMS
- Highly-rated custom heat-sinks and active cooling
- Integrated universal switch mode power supplies provide ultra-efficient power utilisation (up to 90% efficient)
- Constant current output stage
- Adjustable audio time delay for audio syncing across large distances
- Intuitive and sleek user interface on a full colour, high resolution LCD
- Adjust drive and loop output levels using an embedded LAN service
- Settings/profiles can be saved to a USB
- Continuous self-testing
- Integrated protection circuits with temperature, voltage, short circuit and DC detection
- Full width 1U 19" rack mount

Applications:

Suitable for medium sized facilities such as:
- Meeting and conference rooms
- Lecture halls
- Places of worship
- Nursing and care homes
- Reception and waiting areas
- Gyms and sports halls
- Educational establishments

What You Will Need:

- Length of wire or cable dependant on room size and type (see pages 57-59)
- Audio input such as a microphone (see pages 51-53 for our range) or sound system source

What's Included:

- V22a PRO Hearing Loop Driver
- 2 x Large Area Hearing Loop Signage
- 2 x NL4 Connector
- Rack Brackets
- IEC Power Lead

Accessories:

- 6U Rack Cabinet (see page 48)

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

Technical Data:

Audio Inputs	2 X line/microphone inputs (switchable) XLR or Euroblock	Line (optimised for -10dBV to 0dBv)
		Microphone (12V phantom power via 680Ω optimised for levels above -45dBv)
Loop Outputs	Outputs Voltage	2 x 22.66Vrms (64.09V pk-pk)*
	Output Current	2 x 8Arms @ 1KHz (22.62A pk-pk) >1200 seconds (20 minutes)*
	Loop Connector	2 x NL4
Audio System	Frequency Response	100Hz to 9KHz
	Distortion	THD<1% (-40dB) full current both channels driven
	Automatic Gain Control	DSP controlled, peak detecting
	High Frequency Compensation	7 DSP controlled, optimised stages
	Audio Signal Delay	10ms to 40ms
Display	Backlit TFT 480 x 128 pixels (95mm x 25mm)	
Control	Single Rotary Push Control	
Mains Input	Voltage	100V-120V /200V-240V AC (universal auto switching with PFC)
	Frequency	50Hz/60Hz
	Connection	IEC
Cooling	Custom heatsink with temperature-controlled fan	

*Z= 2.83Ω @ 1.6KHz (250.63uH +1.294Ω) equivalent to 192.85m of 25mm flat copper cable.

Physical Data:

Dimensions	Height – 44mm (1.73") Width – 433mm (17.04") Depth – 301mm (11.85")
Weight	3.9kg (8.5lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V22a PRO Hearing Loop Driver UK	V22a-UK
V22a PRO Hearing Loop Driver Europe	V22a EU
V22a PRO Hearing Loop Driver Australia	V22a-AUS
V22a PRO Hearing Loop Driver US & Japan	V22a-USJ

V34 PRO Hearing Loop Driver

This highly efficient and powerful V34 PRO is a constant current hearing loop driver with single output for perimeter loops. It is designed for large facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around advanced digital systems including an ARM Cortex processor and dual DSPs. Combined with a powerful CPU to ensure peak performance, the V34 PRO provides self-monitoring and email alerts, remote setup over local area networks, guided hearing loop setup to make installation simple, and excellent speech and music reproduction.

Features:
- Inbuilt guided hearing loop setup utilising an integral test signal generator
- Intelligent self-monitoring system supplies status emails on changes to driver functions
- Dual-DSP controlled automatic gain control and high frequency compensation for metal loss
- Class-D amplifier output stage capable of delivering 12ARMS @ >34VRMS
- Highly-rated custom heat-sinks and active cooling
- Integrated universal switch mode power supplies provide ultra-efficient power utilisation (up to 90% efficient)

- Constant current output stage
- Adjustable audio time delay for audio syncing across large distances
- Intuitive and sleek user interface on a full colour, high resolution LCD
- Adjust drive and loop output levels using an embedded LAN service
- Settings/profiles can be saved to a USB
- Continuous self-testing
- Integrated protection circuits with temperature, voltage, short circuit and DC detection
- Full width 1U 19" rack mount

Applications:
Suitable for medium sized facilities such as:
- Meeting and conference rooms
- Lecture halls
- Places of worship
- Nursing and care homes
- Reception and waiting areas
- Gyms and sports halls
- Educational establishments

What You Will Need:
- Length of wire or cable dependant on room size and type (see pages 57-59)
- Audio input such as a microphone (see pages 51-53 for our range) or sound system source

What's Included:
- V34 PRO Hearing Loop Driver
- 2 x Large Area Hearing Loop Signage
- NL4 Connector
- Rack Brackets
- IEC Power Lead

Accessories:
- 6U Rack Cabinet (see page 48)

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

Technical Data:

Audio Inputs	2 X line/microphone inputs (switchable) XLR or Euroblock	Line (optimised for -10dBV to 0dBv)
		Microphone (12V phantom power via 680Ω optimised for levels above -45dBv)
Loop Outputs	Outputs Voltage	1 x 34Vrms (96.1V pk-pk)*
	Output Current	1 x 12Arms @ 1KHz (33.94A) pk-pk >1200 seconds (20 minutes)
	Loop Connector	1 x NL4
Audio System	Frequency Response	100Hz to 9KHz
	Distortion	THD<1% (-40dB) full current both channels driven
	Automatic Gain Control	DSP controlled, peak detecting
	High Frequency Compensation	7 DSP controlled, optimised stages
	Audio Signal Delay	10ms to 40ms
Display	Backlit TFT 480 x 128 pixels (95mm x 25mm)	
Control	Single Rotary Push Control	
Mains Input	Voltage	100V-120V /200V-240V AC (universal auto switching with PFC)
	Frequency	50Hz/60Hz
	Connection	IEC
Cooling	Custom heatsink with temperature-controlled fan	

*Z= 2.83Ω @ 1.6KHz (250.63uH +1.294Ω) equivalent to 192.85m of 25mm flat copper cable.

Physical Data:

Dimensions	Height – 44mm (1.73") Width – 433mm (17.04") Depth – 301mm (11.85")
Weight	3.4kg (7.5lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V34 PRO Hearing Loop Driver UK	V34-UK
V34 PRO Hearing Loop Driver Europe	V34 EU
V34 PRO Hearing Loop Driver Australia	V34-AUS
V34 PRO Hearing Loop Driver US & Japan	V34-USJ

V34a PRO Hearing Loop Driver

This highly efficient and powerful V34a PRO is a constant current hearing loop driver with dual output for phased array loops. It is designed for large facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around advanced digital systems including an ARM Cortex processor and dual DSPs. Combined with a powerful CPU to ensure peak performance, the V34a PRO provides self-monitoring and email alerts, remote setup over local area networks, guided hearing loop setup to make installation simple, and excellent speech and music reproduction.

Features:

- Inbuilt guided hearing loop setup utilising an integral test signal generator
- Intelligent self-monitoring system supplies status emails on changes to driver functions
- Dual-DSP controlled automatic gain control and high frequency compensation for metal loss
- Class-D amplifier output stage capable of delivering 12ARMS @ >34VRMS
- Highly-rated custom heat-sinks and active cooling
- Integrated universal switch mode power supplies provide ultra-efficient power utilisation (up to 90% efficient)
- Constant current output stage
- Adjustable audio time delay for audio syncing across large distances
- Intuitive and sleek user interface on a full colour, high resolution LCD
- Adjust drive and loop output levels using an embedded LAN service
- Settings/profiles can be saved to a USB
- Continuous self-testing
- Integrated protection circuits with temperature, voltage, short circuit and DC detection
- Full width 1U 19" rack mount

Applications:

Suitable for medium sized facilities such as:
- Meeting and conference rooms
- Lecture halls
- Places of worship
- Nursing and care homes
- Reception and waiting areas
- Gyms and sports halls
- Educational establishments

What You Will Need:

- Length of wire or cable dependant on room size and type (see pages 57-59)
- Audio input such as a microphone (see pages 51-53 for our range) or sound system source

What's Included:

- V34a PRO Hearing Loop Driver
- 2 x NL4 Connector
- 2 x Large Area Hearing Loop Signage
- Rack Brackets
- IEC Power Lead

Accessories:

- 6U Rack Cabinet (see page 48)

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

Technical Data:

Audio Inputs	2 X line/microphone inputs (switchable) XLR or Euroblock	Line (optimised for -10dBV to 0dBv)
		Microphone (12V phantom power via 680Ω optimised for levels above -45dBv)
Loop Outputs	Outputs Voltage	2 x 34Vrms* (96.1V pk-pk)
	Output Current	2 x 12Arms @ 1KHz* (33.94A) pk-pk >1200 seconds (20 minutes)
	Loop Connector	2 x NL4
Audio System	Frequency Response	100Hz to 9KHz
	Distortion	THD<1% (-40dB) full current both channels driven
	Automatic Gain Control	DSP controlled, peak detecting
	High Frequency Compensation	7 DSP controlled, optimised stages
	Audio Signal Delay	10ms to 40ms
Display	Backlit TFT 480 x 128 pixels (95mm x 25mm)	
Control	Single Rotary Push Control	
Mains Input	Voltage	100V-120V /200V-240V AC (universal auto switching with PFC)
	Frequency	50Hz/60Hz
	Connection	IEC
Cooling	Custom heatsink with temperature-controlled fan	

*Z= 2.83Ω @ 1.6KHz (250.63uH +1.294Ω) equivalent to 192.85m of 25mm flat copper cable.

Physical Data:

Dimensions	Height – 44mm (1.73") Width – 433mm (17.04") Depth – 301mm (11.85")
Weight	3.9kg (8.5lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Product Code:

V34a PRO Hearing Loop Driver UK	V34a-UK
V34a PRO Hearing Loop Driver Europe	V34a EU
V34a PRO Hearing Loop Driver Australia	V34a-AUS
V34a PRO Hearing Loop Driver US & Japan	V34a-USJ

ID-7 Hearing Loop Driver

The ID-7 is a compact, cost-effective hearing loop driver designed to enhance accessibility in smaller venues, offering significant enhancements to performance and flexibility.

Designed for smaller facilities such as meeting rooms, classrooms, and similar-sized venues, the ID-7 incorporates a 75V line input for connection to public address systems.

Two units can be connected to create a phased array system.

Applications:

Suitable for small and medium sized facilities, such as:
• Meeting rooms
• Classrooms
• Waiting rooms
• Lecture halls

Also ideal for integrated applications for:
• Digital Signage / Advertising Displays
• Help / Call Points
• Point of entry, exit and evacuation systems
• Lifts / Elevators

Features:

• Discreet and compact design
• Wide operating power supply range (12V-24V DC only)
• High output voltage (7Vrms - 15V)*, allowing large hearing loops to be driven
• High output current, up to 5Arms Vs 3Arms
• High efficiency and cooling operation
• Flexible mounting options

What's Included:

• ID-7 Hearing Loop Driver
• 4 x Mounting Screws
• 4 x Wall Plugs

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

Technical Data:

Power	Voltage	12V - 24V DC
	Current	2.5A - 4.17A
	Power Supply	External PSU (not supplied)
Inputs	1V Line Level (or) 75V Line Level	1 x 1V Line Level (from computer, etc) transformer isolated, 3.81mm screw terminal (bare wire)
		1 x 75V Line Level, transformer isolated, 3.81mm screw terminal (bare wire)
	Microphone	1 x Microphone, selectable 12V phantom balanced via 680Ω / 5V single ended electret
Output Characteristics	Output Voltage	7V (19.79Vpk-pk) - 15Vrms (42.3Vpk-pk) @ 5Arms (14.14Apk-pk) dependent on PSU voltage
	Output Current	5Arms (14.14Apk-pk) on audio peaks
	Loop Connector	3.81mm screw terminal (bare wire)
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB)
	HF Comp	Adjustable
Controls	Adjustable	Rotary trimmers and dip switches
Automatic Gain Control	Peak detecting	Optimised for speech
Feature	Cooling	No external heatsink required
	Indications	LED indications for 'Input OK' / Drive / 'Clip' / 'Fault' / 'Power'

Physical Data:

Dimensions	Height – 94.4mm (3.7") Width – 165mm (6.5") Depth – 16.4mm (0.6")
Weight	350g (0.77lbs)
Construction	Mid Steel
Finish	Black Powder Coated

Product Code:

ID-7 Hearing Loop Driver UK	ID-7-UK

Portable Large Area Loop

The Portable Large Area Loop is an all-in-one fully portable hearing loop, ideal as a temporary solution or for use in multiple venues.

It has a built-in hearing loop driver, a 2 channel receiver and an auxiliary input. The receiving module is licence-free and generally approved for operation in EU and EFTA countries.

Applications:

Suitable for medium sized facilities such as:
• Meeting and conference rooms
• Lecture halls
• Places of worship

Ideal as a temporary solution for:
• Events
• Rooms where a permanent install is not achievable
• Travelling instructors or public speakers

Physical Data:

Dimensions	Height – 254mm (10") Width – 540mm (21.25") Length – 368mm (14.5")
Weight (boxed incl. power supply)	13.5kg (29.76lbs)
Construction	Mild Steel
	ABS Plastic
Finish	Black Powder Coated

Features:
• Compact case
• 2 channel receiver
• Efficient power utilisation
• Continuous self-testing
• Accurate, lockable, front panel mounted controls
• Padded pocket to house accessories

What's Included:

• V7 Hearing Loop Driver (see page 30)
• Chord NU2 Multi-Frequency Receiver
• Transmitter and receiver aerials
• 20m Reel of Tri-Rated White PVC Cable (see page 58)
• Travel case
• Handheld Microphone (see page 51)
• Multi-Frequency Beltpack Microphone (see page 52)
• Rechargeable Loop Listener (see page 50)
• Boundary Microphone (optional, see page 53)

Product Codes:

Portable Large Area Loop	PLALS-V

See next page for Technical Data.

Technical Data:

Power Supply #1	30W 14Vdc 2.14A via External PSU (PS-55) Class 6 External PSU (100V -240V AC 50Hz-60Hz)

Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680Ω) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	1 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	7.5Vrms (21.21Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector:	5.08mm Euro-Block
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB) Full current both outputs driven
	AGC	Peak Detecting
	HF Comp	7 Optimised Stages
Display & Controls	Display	LED Backlit LCD Display
	Control	Single Rotary Control
Fault Monitoring and Protection	Main Display	Open Circuit Loop (DCR measurement) Loop Ground Fault
	Front Panel LED	Output Voltage Clipping
	Cooling	Internal Heatsinks with Thermal Protection
Power Supply #2	12-18Vdc, 500mA	
Carrier Frequencies	863 - 865MHz	
Channels	81 tuneable UHF frequencies	
Signal to Noise Ratio	>105dB	
THD	<0.5% @ 1KHz	
Frequency Response	50Hz - 18kHz ±1 dB	
Image Rejection	>85dB	
Connectors	DC in	
	2 x XLRM	
	6.3mm jack	
	2 x BNC antenna	
Output Impedance	2.2K Ω	
Output Level	400mV (balanced), 200mV (unbalanced)	

*Note 1: Z=1.4Ω (133uH +0.685Ω @ 1.6kHz) **Note 2**: < 1% (-40dB) distortion)

6U Rack Cabinet

This 19" equipment rack cabinet features a lockable front, left or right hinged doors and removable side panels for easy maintenance. It can be either wall mounted or sit on a surface.

Applications:

For use with any 19" rack mountable products, such as:
- V7 Hearing Loop Driver (see page 30)
- V15 Hearing Loop Driver (see page 32)
- V15a Hearing Loop Driver (see page 34)
- V22 PRO Hearing Loop Driver (see page 36)
- V22a PRO Hearing Loop Driver (see page 38)
- V34 PRO Hearing Loop Driver (see page 40)
- V34a PRO Hearing Loop Driver (see page 42)
- Radio microphone receiver

Physical Data:

U Height	6U
Dimensions	Height – 320mm (12.6") Width – 550mm (21.7")
Weight	200g (0.44lbs)
Panel Space	Height – 266.7mm (10.5") Weight – 11.3kg (24.91lbs)
Construction	Steel
Finish	Powder Coated Black RAL 9005

Product Code:

6U Rack Cabinet	IL-AC-RACK-19

Mounting Brackets & Shelves

Brackets and shelves are used to mount hearing loop drivers to a 19" rack and would be suitable for mounting with existing equipment.

Physical Data:

		Dimensions	Weight	Construction	Finish
Shelf	V Series Shelf*	1U Depth – 135.8mm (5.34")	760g (1.67lbs)	Mild Steel	Black Powder Coated
	V Series Blanking Plate*	Width – 196mm (7.71") Height – 40mm (1.57") Depth – 15mm (0.59")	81g (0.18lbs)	Mild Steel	Black Powder Coated
Bracket	Single V Series Bracket	1U Depth – 135.8mm (5.34")	540g (1.19lbs)	Mild Steel	Black Powder Coated

*Note: The V Series Shelf fits up to two drivers. When only one driver is placed in the shelf, one side is left exposed; a blanking plate is available for a neat finish, covering the gap.

Product Codes:

Single V Series Mounting Bracket	MBR-V1
V Series Mounting Shelf	MBR-V2
V Series Blanking Plate	MBR-VBLANK

Rechargeable Hearing Loop Listener

Our Rechargeable Hearing Loop Listener is a compact listening device for interaction with hearing loop systems. It enables listening to a hearing loop system via a headset as if wearing a hearing device switched to the "T" position.

NOTE: Use only the supplied batteries.

Technical Data:

Frequency Response	85Hz - 6kHz ± 0.5dB
Bass Cut	BASS Cut (ON): Frequency Response = 480Hz - 7.8KHz. - 3dB
Distortion	<0.5% THD @ 1KHz
Signal to Noise Ratio	Typ. 60 dB
Output Power	<100mW @ 16Ω
Battery Life	50 hours minimum (dependent on accessory product used)
Charge Time (Full Capacity)	6 hours (approximated)

Physical Data:

Dimensions (boxed)	Height – 112mm (4.4") Width – 70mm (2.75") Depth – 22mm (0.86")
Weight (with headphones)	111g (0.24lbs)
Construction	ABS Plastic
Finish	Black

Product Code:

Loop Listener	IL-RX30

5 Bay Hearing Loop Listener Charger

The 5 bay receiver charger is available for both our portable infrared receiver (IR-RX2) and our rechargeable hearing loop listener.

Physical Data:

	PS-60 Power Supply
Dimensions	Height – 38mm (1.49") Width – 160mm (6.29") Depth – 305mm (12.0")
Weight	540g (1.191lbs)
Finish	Black

Technical Data:

Power Supply	12V DC1000mA

Product Code:

5 Bay Hearing Loop Listener Charger	IR-RX2-DC5

Hearing Loop Listener Charger

The single bay receiver charger is available for both our portable infrared receiver (IR-RX2) and our rechargeable hearing loop listener (see page 50).

Physical Data:

	PS-60 Power Supply
Dimensions	Height – 34mm (1.34") Width – 136mm (5.35") Depth – 34mm (1.33")
Weight	94g (0.21lbs)
Finish	Black

Technical Data:

Power Supply	Primary 100-240 V DC 50-60 Hz / Secondary 12 V, 0.5 A, 6.0 W

Product Code:

Hearing Loop Listener Charger	IR-RX2-DC1

Handheld Microphone

This handheld microphone has an integrated multi-frequency transmitter and UHF technology.

Features:
- Up to 60 metre range
- Pilot tone
- High quality dynamic capsule
- Backlit LCD display
- Powered by 2 x AA batteries (not included)

Physical Data:

Dimensions	Height – 265mm (10.43") Diameter – 49mm (1.92")
Weight	330g (0.72lbs)
Construction	Various
Finish	Grey

Technical Data:

Carrier Frequency Range	863.1 - 864.9MHz
S/N Ratio	>105dB
Power Supply	2 x AA batteries

Product Code:

Handheld Microphone	IL-AC-WM-HT-00

Multi-Frequency Beltpack Microphone

This multi-frequency microphone transmitter comes with a tie clip for ease of use.

Features:

- Up to 60 metre range
- Pilot tone
- Backlit LCD display
- Powered by 2 x AA batteries (not included)

Technical Data:

Carrier Frequency Range	863.1 - 864.9MHz
S/N Ratio	>105dB
Connector	Threaded 3.5mm mono jack
Power Supply	2 x AA batteries

Physical Data:

Dimensions	Height – 205mm (8.07") Width – 68mm (2.67") Depth – 25mm (0.98")
Weight	76g (0.16lbs)
Construction	Various
Finish	Grey

Product Code:

Multi-Frequency Beltpack Microphone	IL-AC-WM-LT-00

Hanging Cardioid Microphone

This semi-rigid gooseneck cardioid condenser microphone has a short flexible shaft and knuckle joint, designed for ceiling mounting.

Features:

- Response optimised for consistent sound quality
- Engineered in high quality brass
- Semi-rigid gooseneck shaft with knuckle joint
- Available in satin black or white

Technical Data:

Type	Condenser (back electret)
Frequency Response	50Hz - 18kHz
Sensitivity	-40dB +/- 3dB at 1kHz (0dB = 1 V/Pa)
Impedance	200Ω
S/N Ratio	64dB (A)
Maximum Sound Pressure Level	125dB 1% THD
Power Requirements	9 - 48Vs phantom power
Termination	Male 3 Pin XLR

Physical Data:

Dimensions	Length – 215mm (8.5") Width – 12mm (0.5")
Weight	235g (0.51lbs)
Construction	Brass
Finish	Satin Black
	Satin White

Product Code:

Hanging Cardioid Microphone in White	MC-90-01-W
Hanging Cardioid Microphone in Black	MC-90-01-B

Hanging Mini Shotgun Microphone

This suspended mini shotgun microphone with hyper cardioid capsule is ideal for mounting on the ceiling. It has a fully flexible gooseneck shaft with knuckle joint.

It has a narrow pick up for sound, creating focused clear speech in meeting rooms and lecterns.

Technical Data:

Type	Condenser (back electret)
Polar Pattern	Hyper cardioid
Frequency Response	50Hz - 18kHz
Sensitivity	-47dB +/- 3dB at 1kHz (0dB = 1 V/Pa)
Impedance	200Ω
S/N Ratio	64dB (A)
Maximum Sound Pressure Level	125dB 1% THD
Power Requirements	9 - 48Vs phantom power
Termination	Male 3 Pin XLR

Physical Data:

Dimensions	Length – 300mm (11.8") Width – 12mm (0.5")
Weight	260g (0.57lbs)
Construction	Brass
Finish	Satin Black
	Satin White

Product Codes:

Hanging Mini Shotgun Microphone in White	MC-91-01-W
Hanging Mini Shotgun Microphone in Black	MC-91-01-B

Boundary Microphone

The boundary microphone is a small, surface mounted electret condenser microphone designed for mounting on conference tables, stage floors, and lecterns. Its wide frequency range and wide area coverage makes it suited to picking up speech in quiet environments.

Features:
- Flat frequency response across the vocal range for uncoloured sound
- Sleek, low-profile design
- In-line preamp reduces visible size of microphone
- 3-pole mini XLR connection with 6 metre cable

Physical Data:

Dimensions	Height – 90mm (3.54") Width – 90mm (3.54") Depth – 16mm (0.63")
Weight	200g (0.44lbs)
Finish	White
	Black

Technical Data:

Polar Pattern	Semi-Supercardioid
Frequency Response	30 - 20,000Hz
Impedance	250Ω
Power Requirements	DC 17-48V, phantom power

Product Codes:

Boundary Microphone in White	STS-M90-W
Boundary Microphone in Black	STS-M90-B

2 Channel Multi-Frequency Receiver

This receiver is a dual channel PLL tuneable UHF wireless system and is designed to work with microphones such as the Handheld Microphone and Multi-Frequency Beltpack Microphone (see pages 51 and 52). Use with the 6 Channel Mixer (see page 55) for adjustment.

The receiver has a range of 60 metres, and is provided with either two Multi-Frequency Beltpack Microphones (see page 52) or two Handheld Microphones (see page 51).

Features:

- PLL tunable with 81 UHF frequencies
- Pilot tone & mute circuit for stable signal
- Rack-mounting accessories included
- Supplied with mains adaptor and 4 x AA batteries
- Licence free operation in UK and Europe

Technical Data:

Power Supply	12-18Vdc, 500mA
Carrier Frequencies	863 - 865MHz
Channels	81 tuneable UHF frequencies
Signal to Noise Ratio	>105dB
THD	<0.5% @ 1KHz
Frequency Response	50Hz - 18kHz ±1 dB
Image Rejection	>85dB
Connectors	DC in
	2 x XLRM
	6.3mm jack
	2 x BNC antenna
Output Impedance	2.2K Ω
Output Level	400mV (balanced), 200mV (unbalanced)

Physical Data:

Dimensions	Height – 409mm (16.1") Width – 190mm (7.48") Depth – 44mm (1.73")
Weight	3.81kg (4.62lbs)
Construction	Various
Finish	Grey

Product Code:

MF Receiver (2 x Handheld Mic)	IL-AC-WM-2C-HH
MF Receiver (2 x Tie Clip Mic)	IL-AC-WM-2C-LT
MF Receiver (2 x Handheld Mic) Europe	IL-AC-WM-HH-EU
MF Receiver (2 x Tie Clip Mic) Europe	IL-AC-WM-LT-EU

6 Channel Mixer

This audio mixer is a device that combines two or more separate signals. This dual output mixer has multiple inputs and can split signals when used with a number of hearing loop drivers. It is ideal for use with the 2 Channel Multi-Frequency Receiver (see page 54) and any of the microphones.

Features:

- 6 stereo line inputs, 6 balanced mono microphone inputs, switchable
- Adjustable automatic talk-over (-12dB), switchable for channel 1 or channels 1+2
- Balance control for each stereo input channel
- 3-way equalizer
- 12V phantom power can be switched on additionally
- LED VU meter, peak LED
- Master output and record output
- Output can be switched stereo/mono
- Adjustable headphone output
- 482mm (19") rack installation, 1 RS

Technical Data:

Line Input, Stereo	100mV/10 kΩ
Microphone Input	1mV/6.6 kΩ
Master Output, Stereo	1 V/600Ω
Record Output, Stereo	310 mV/600Ω
Headphones, Stereo	>8Ω
Frequency Range	20 - 20,000Hz
THD	0.1%
S/N Ratio	62dB, unweighted
Equalizer, Bass	±12dB/50Hz
Equalizer, Midrange	±12dB/1kHz
Equalizer, Treble	±12dB/10kHz
Power Supply	230 V∼/50Hz/12VA
Admiss. Ambient Temp.	0-40 °C
Line Input, Stereo	6 x RCA L/R
Microphone Input	6 x XLR, bal.
Master Output, Stereo	1 x RCA L/R, 1 x XLR L/R, bal.
Record Output, Stereo	1 x RCA L/R
Headphones	1 x 6.3mm jack

Physical Data:

Dimensions	Height – 47mm (1.85") Width – 482mm (18.98") Depth – 208mm (8.19")
Weight	2.8 kg (6.17lbs)
Finish	Black

Product Code:

6 Channel Mixer	IL-AC-MMX-00

PS-55 Power Supply

The PS-55 Power Supply is a Level VI power supply for use with:

- V7 Hearing Loop Driver (see page 30)

Complies with UL, RCM, KC, FCC, CE (EMC), and CCC standards.

All power supplies come with a region-specific IEC lead as standard.

Physical Data:

	PS-55 Power Supply	IEC Lead
Dimensions	Height – 99mm (3.89") Width – 52mm (2.04") Depth – 36mm (1.42") Cable Length – 1.8m (70.87")	Cable Length – 2m (78.7")
Weight	180g (0.39lbs)	90g (0.2lbs)
Construction	ABS Plastic	PVC
Finish	Black	Black

Technical Data:

Input	100-240V – 50-60Hz
Output	14V 2.14A 30W max.

Product Code:

PS-55 Power Supply w/ IEC UK	PS-55-01-UK
PS-55 Power Supply w/ IEC Europe	PS-55-01-EU
PS-55 Power Supply w/ IEC Switzerland	PS-55-01-CH
PS-55 Power Supply w/ IEC US & Japan	PS-55-01-USJ
PS-55 Power Supply w/ IEC Australia	PS-55-01-AUS

PS-60 Power Supply

The PS-60 Power Supply is a Level VI power supply for use with:

- V15a Hearing Loop Driver (see page 34)

Complies with UL, CE (EMC), and RCM standards. All power supplies come with a region-specific IEC lead 2 metres in length as standard.

Physical Data:

	PS-60 Power Supply	IEC Lead
Dimensions	Height – 155mm (6.10") Width – 57mm (2.24") Depth – 34mm (1.33") Cable Length – 1.8m (70.87")	Cable Length – 2m (78.7")
Weight	223g (0.34lbs)	90g (0.2lbs)
Construction	ABS Plastic	PVC
Finish	Black	Black

Technical Data:

Input	100-240V – 50-60Hz
Output	24V 4.17A 100W max.

Product Code:

PS-60 Power Supply w/ IEC UK	PS-60-02-UK
PS-60 Power Supply w/ IEC Europe	PS-60-02-EU
PS-60 Power Supply w/ IEC Switzerland	PS-60-02-CH
PS-60 Power Supply w/ IEC US & Japan	PS-60-02-USJ
PS-60 Power Supply w/ IEC Australia	PS-60-02-AUS

Flat Copper Tape

Flat copper tape is designed for hearing loop installations under carpet or wooden flooring when installing large area loops. It is available in reels of 100m and at three widths; 10mm, 12.5mm and 25mm.

Conductor

Composition	Copper 99.5% (minimum)
Density	8.9g/cm³
Melting Point	1083°C
Electrical Conductivity	58m/ohm mm² at 20°C (100%IACS)
Electrical Resistance	0.01741 ohm mm²/m at 20°C
Hardness	50/60 HV
Copper Section	RL-TAPE-10 – 0.5mm² RL-TAPE-12.5 – 1.25mm² RL-TAPE-25 – 2.5mm²

Insulation Film

Density	1.36g/cm³
Tensile Strength	200N/mm²
Elongation	60%
Melting Point	160°C
Breakdown Voltage	7KV

Physical Data

Dimensions	Width – 0.5mm
Weight	2.62kg (5.77lbs)

Product Code:

10mm Copper Tape	RL-TAPE-10
12.5mm Copper Tape	RL-TAPE-12.5
25mm Copper Tape	RL-TAPE-25

Burial Cable

This Burial Cable has a hardwearing and durable coating, allowing hearing loop installations with direct burial of the cable in concrete or screed. Its unique coating resists ingress of corrosive minerals found within these compounds, which can damage the copper core if standard cables were used. It is available in 100m reels in two diameters, 1.5mm and 2.5mm.

Technical Data:

Conductors	Annealed tinned copper conductor class 5 acc. to BS EN 60228
Separator	If needed a suitable tape separator under insulation
Internal Insulation Layer	EPR thermosetting compound type 4
Outer Insulation Layer	Based on chlorinated polyethylene thermosetting compound
Number+Cross-Sectional Area of Conductor	1 x 1.5mm²
Radial Thickness of Insulation (Volt Cat C)	1.4mm
Maximum Resistance of Conductor, 20C per KM	13.7Ω
Current Rating Single Cable In Free Air	30A

Physical Data:

CABLE-BC-1.5 Dimensions	Length – 100m (328ft) Diameter – 5.2mm (0.05")
CABLE-BC-2.5 Dimensions	Length – 100m (328ft) Diameter – 5.6mm (0.05")
CABLE-BC-1.5 Weight	3kg
CABLE-BC-2.5 Weight	4.1kg
Finish	Black

Product Code:

Burial Cable	CABLE-BC-1.5 / CABLE-BC-2.5

Tri-Rated White PVC Cable

Tri-rated white PVC cable is a high temperature, flame retardant copper cable, used for large area hearing loop installations. It is available in reels of 100m and at three widths; 1mm, 1.5mm and 2.5mm.

Physical Data:

Dimensions	Width – 2mm
Weight	1.11kg (256lbs)
Construction	PVC
Finish	White

Product Code:

Bl 1.0mm sq Tri-Rated White PVC Cable	CABLE-1.0TRI-WH
Bl 1.5mm sq Tri-Rated White PVC Cable	CABLE-1.5TRI-WH
Bl 2.5mm sq Tri-Rated White PVC Cable	CABLE-2.5TRI-WH

Tape Options

These adhesive tapes are designed for use during the installation of large area hearing loop systems

They are used to cover copper tape or cable either under or above flooring, to provide protection to the cables and secure them firmly onto the installation surface.

Tapes are available in three colours, to help clearly distinguish between different loop cables in multi-loop layouts such as phased array installations.

After installation is complete, "Do Not Cut" warning tape should be laid over loop cabling to warn against damage to the system.

Physical Data:

Dimensions	Length – 50m Width – Gaffa Tape: 4.8mm (1.88") – "Do Not Cut": 49mm (1.92")
Weight	352g (0.71lbs)

Product Code:

50mm Blue Gaffa Tape	RL-TAPE-DS-50-B
50mm Red Gaffa Tape	RL-TAPE-DS-50-R
50mm Yellow Gaffa Tape	RL-TAPE-DS-50-Y
"Do Not Cut" Tape	TAPE-WARNING

Field Strength Meter

The Field Strength Meter is an essential tool for any hearing loop installer. It is used to carry out test loops on site visits, complete and commission any loop installation, and during maintenance checks to guarantee loops provide the best listening experience for the user.

The Field Strength Meter provides measurements of the field performance in various modes, EMI readings, and it is also equipped with a Telecoil coupler to access hearing loops for listening tests.

A compact, battery powered device with Mode selector for Background Noise check, RMS Peak Mode, Field Strength Flat Response, Selectable Third Octave setting for frequency response tests.

There is a useful LED display with backlight adjustment, a Line Level input with volume adjustment for input and headphone output.

Applications:

- Assists in verifying that a hearing loop system has been installed and certified to IEC 60118-4 standards

Features:

- Accurate and easy to read
- Simple button operation
- Flat spectrum output
- Headphone output
- Based on the IEC 60118-4 specification

Technical Data:

Measurement Range	-54dB to +9dB (0.0126 to 14.176 mG)
Resolution	0.1dB
Calibration	Calibrated at 1,000Hz (sine) to read 0dB at 5.03 mG
Flat Response	±1dB from 50Hz to 10,000Hz
Display	16x2 LCD Character Display
Input	1/8" stereo headphone jack
Power	9v Alkaline battery, 5.8-14v

Physical Data:

Dimensions	Height – 139.7mm (5.5") Width – 91.4mm (3.6") Depth – 27.9mm (1.1")
Weight	250g (0.55lbs)
Construction	ABS Plastic
Finish	Black

Product Code:

Field Strength Meter	IL-CONTACTA-FSM

Tone Signal Generator

The Tone Signal Generator is a compact handheld installer essential tool for large area loop installations. When combined with a Field Strength Meter (see page 60) it allows measurement of hearing loop systems using multiple frequencies to verify the loop meets BS EN 60118-4 standards.

Features:
Easily switches between the following frequencies:
- 100Hz
- 500Hz
- 1kHz
- 1.6kHz
- 4kHz
- 5kHz
- Pink noise
- White noise

Technical Data:

Signal Level	-10dBv
Sine Wave Quality	< 0.2% THD
Pink Noise Band	20Hz - 20KHz
White Noise Band	20Hz - 20KHz
Connector	XLR male/3 pin phoenix connector
Power	2 x AA batteries
Automatic Power-Off	1 hour auto power-off

Physical Data:

Dimensions	Height – 117.48mm (4.63") Width – 72.39mm (2.85") Depth – 25.4mm (1")
Cable Length	300mm (11.81")
Weight	244g (0.54lbs)
Construction	ABS Plastic Housing
Finish	Standard FR4 B

Product Code:

Signal Generator	TSG1

Contact us now on:

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