

We've made things simple for you.

# Product Catalogue

Enhance customer service and improve accessibility  
with our latest range of innovative products.





## Why Us?





We have **over 40 years' experience** providing quality systems to a wide range of organisations. Our happy customers include many of the leading supermarkets, high street banks, theatres and museums.

We have a **dedicated in-house design team** that strive to constantly **improve** and **develop our products**, ensuring they are of the **upmost quality**.

Our **unobtrusive solutions** are **easy to install** and simple to maintain.

**Get in touch with us now** to find out more about our unique range of products designed to meet your needs.

# Contents

	<b>Product</b>	<b>Page</b>
	1 to 1 Loops	4
	Large Area Loops	18
	Speech Transfer Systems	40
	Queue Management System	51

# 1 to 1 Loops

## 1 to 1 loops enhance customer service by improving accessibility.

Communication should be easy and natural but instead, for those with hearing loss, can often become a stressful activity which causes fatigue and embarrassment.

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 reduced hearing to distinguish speech or conversation. One to one 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 loop aerial. This magnetic signal is picked up by the telecoil within the hearing aid and converted back to speech, allowing your customers to engage with your staff freely.

Our 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.



# Products

"Under the Counter" Loop Kit	6
"Above the Counter" Loop Kit	7
Portable Loop	8
Home Loop	9-10
Components	11-13
Microphones	14-15
Accessories	16
Demo Kits	17

# “Under the Counter” Loop Kit

Our “Under the Counter” loop kit provides clear communication with hearing aid wearers, especially where background noise is a problem or clear speech is restricted.

It has a flexible aerial that can be bent to shape, allowing it to be installed into many different positions.



## 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
- Theatres
- Information Centres
- Airports

## What’s included:

	<p>Our new HLD2 driver is a special type of audio amplifier designed especially for driving hearing loops. For more information see page 11.</p>
	<p>Our standard microphone with a halo light indicator. See pages 14 &amp; 15 for more information and other microphone options.</p>
	<p>The hearing loop aerial, which is fitted under desks or counters. For more information see page 12.</p>
	<p>A sign to let hearing aid wearers know that you have a loop installed. See page 13 for more information.</p>

**Also included:** Power supply and fixings

## Physical Data:

<p><b>Dimensions (boxed)</b></p>	<p>Height – 85mm (3.35") Width – 320mm (12.60") Depth – 220mm (8.66")</p>
<p><b>Weight (boxed)</b></p>	<p>0.8kg (1.76lbs)</p>

# “Above the Counter” Loop Kit

Our “Above the Counter” loop kit provides clear communication with hearing aid wearers, especially where background noise is a problem or clear speech is restricted.

The aerial is combined with the sign and is fixed to the counter or desk surface, which enables your customers to easily spot 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
- Theatres
- Information Centres
- Airports

## What's included:

	<p>Our new HLD2 driver is a special type of audio amplifier designed especially for driving hearing loops. For more information see page 11.</p>
	<p>Our standard microphone with a halo light indicator. See pages 14 &amp; 15 for more information and other microphone options.</p>
	<p>A sign to let hearing aid wearers know that you have a loop installed. For more information see page 13.</p>

**Also included:** Power supply and fixings

## Physical Data:

<b>Dimensions (boxed)</b>	Height – 80mm (3.15") Width – 320mm (12.60") Depth – 220mm (8.66")
<b>Weight (boxed)</b>	0.8kg (1.76lbs)

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# Portable Loop

The Portable Loop is a versatile solution, providing mobile desktop assistance for your customers. It can be moved between rooms as required and is used in small rooms where conversation between two people takes place.

## Applications:

For use in any situation where one to one communication takes place at a counter, booth or desk, for example:

- Banks
- Offices
- Information Centres
- Airports



## Features:

The single control unit is constructed in robust ABS plastic and incorporates the microphone, amplifier, hearing loop aerial and rechargeable battery system.

- Advanced audio processing features AGC, compression, and noise gate
- Constant-current loop drive
- LED indicator shows loop drive and battery status
- Magnetic field strength distance to approx 1.2metres

**What's included:** The unit, a power supply and a sign to let wearers know there is assistance available.

## Physical Data:

<b>Dimensions (boxed)</b>	Height – 250mm (9.84") Width – 275mm (10.83") Depth – 110mm (4.33")
<b>Weight</b>	0.8kg (1.76lbs)
<b>Construction/ Finish</b>	Black ABS Plastic

## Technical Data:

<b>Internal Battery</b>	NiMH battery pack	Battery life approximately 4 hours
<b>PSU</b>	Power supply	18 VDC
<b>Microphone</b>	-	Electret capsule
<b>Power and Status</b>	Power and status LED indication	Green/red LED
<b>Protection</b>	-	Self-resetting polyfuses, multiple on chip thermal shutdown
<b>External Audio In</b>	Connection	Boundary microphone or SCART lead
<b>DC Power</b>	Connection	2.1mm DC jack



# Home Loop

Our "Home Loop" is a sleek and powerful hearing loop driver that connects to televisions and other audio devices.

It enables hearing aid wearers to listen wirelessly directly from the source, providing the best possible sound quality. Integrated clear audio processing gives the user outstanding sound quality, enhancing speech and music clarity.

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

## Features:

- Quick setup & simple connection to either a room loop, or a loop pad underneath a sofa or chair
- Optical IN for clearer sound less prone to interference
- Suitable for use with optical cable or RCA lead
- Adaptable to suit different room layouts
- DAC
- Connects to multiple devices
- Constant current for consistent audio performance
- Separate volume control
- HF compensation

## What's included:

	The hearing loop driver.
	The loop pad that has a loop aerial built into it.
	Loop cable which gives you the option to loop the whole room.
	Our boundary microphone allows you to pick up additional sound sources.

**Also included:** A 3.5mm auxilliary cable and an optical cable

**Please see next page for physical and technical data**

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## Physical Data:

<b>Dimensions</b>	Height – 30mm (1.18") Width – 158mm (6.22") Depth – 111mm (4.37")
<b>Weight (boxed)</b>	1084g (2.39lbs)
<b>Construction/ Finish</b>	1.6mm Mild Steel Powder Coated Black

## Technical Data:

<b>Inputs</b>	Microphone	2 way phoenix screw terminal blocks unbalanced 3.3VDC for electret microphones
	Stereo IN	3.5mm stereo jack, -20dBV to +3dBV
	Optical digital	33kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz PCM Audio
<b>Loop output</b>	Stereo OUT	3.5mm jack 0dBV
	Loop drive current	3A RMS compliance current at 1kHz sine wave
	Loop drive voltage	3.5V RMS compliance voltage
	Loop connection	2 x 2 way phoenix screw terminal blocks
<b>Audio</b>	Frequency response	100 Hz – 5kHz (±3dB)
	Distortion	Better than -40dB, inputs at nominal level
<b>Automatic gain control</b>	Analogue	Dynamic range: 40dB typical Attack time: 10 milliseconds Release time: 500mS
<b>Controls</b>	Volume/driver	Controls the level of current delivered into the loop
<b>Displays</b>	Other indications	LEDs for power, input and output

# Components



## 1 to 1 Loop Driver

Our innovative 1 to 1 hearing loop driver is a special type of audio amplifier designed especially for driving hearing loops.



### Physical Data:

<b>Dimensions</b>	Height - 116mm (4.57") Width - 116.2mm (4.58") Depth - 40mm (1.57")
<b>Weight</b>	300g (1.76lbs)
<b>Construction</b>	ABS Plastic Construction Housing
<b>Finish</b>	Matt Black, Fine Texture

### 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

### Technical Data:

<b>Inputs</b>	Input 1 (Microphone)	Screw terminals on 3.8mm 2 pole Phoenix connector. Single-ended electret microphone, powered by 5V via 2.2K ohms
	Input 2 (Line) (Optional)	Screw terminals on 3.8mm 2 pole Phoenix connector. Transformer isolated, 0dBu into 1K ohms, may have series resistance added for optional 75V or 100V line inputs
	Power	Centre positive power jack, 14V DC 2A via 2.1mm from our P55 power supply unit
<b>Loop output</b>	Loop connection	Screw terminals on 3.8mm 2 pole Phoenix connector
	Loop drive current	2A RMS compliance current @ 1KHz sine wave
	Loop drive voltage	4V RMS compliance voltage @ 1KHz sine wave
<b>Audio</b>	Frequency response	100 Hz – 5kHz ( $\pm 3$ dB)
	Distortion	Better than -40dB, inputs at nominal level
<b>Automatic gain control</b>	Processor controlled	Dynamic range: 40dB typical Attack time: 10 milliseconds Release time: typically 10 seconds, varies with program content
<b>Indications</b>	Status LEDs	3 colour LEDs indicate power, input and output diagnostic information Connection provided for our LED halo indicator microphone
<b>Self Test</b>	Microprocessor controlled	Unit, including microphone and loop connections is continuously monitored, and internal and external LED indicators are updated
<b>Energy saving</b>	Sound activated	Unit will enter low energy "sleep" mode when acoustic conditions indicate lack of usage

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## Aerial

Hearing loop aerial for use with our "Under the Counter" loop kit, which is fixed under desks or counters.

It transmits a magnetic field which enables the telecoil in the hearing aid to receive the signal from our hearing loop driver.

The aerial should be positioned within 1.5m from the user's hearing aid and can be fixed in place using self adhesive clips, P-clips or hot glue. This aerial can be easily moulded into your desired shape.



### Physical Data:

<b>Dimensions</b>	Can be moulded on site to required size/ shape, approx wire diameter - 4mm
<b>Weight</b>	100g (0.22lbs)
<b>Construction</b>	Copper Wire with Black Protective Covering
<b>Finish</b>	Black PVC



## Sign with Built-In Aerial

In our "Above the Counter" loop kit (see page 7) the aerial is built into the blue loop sign.

The aerial transmits a magnetic field which enables the telecoil in the hearing aid to receive the signal from our drivers.

The aerial should be positioned within 600mm from the user's hearing aid; the aerial can be fixed in place using double sided tape, on horizontal/vertical poles using cable ties, or alternatively, it can simply sit within it's stand on top of a counter or desk.

### Physical Data:

<b>Dimensions</b>	Height - 205mm (8.07") Width - 205mm (8.07") Depth - 5.4mm (0.21")  Connection cable length - 2m (78.74")
<b>Weight</b>	200g (0.44lbs)
<b>Construction</b>	Various
<b>Finish</b>	Various

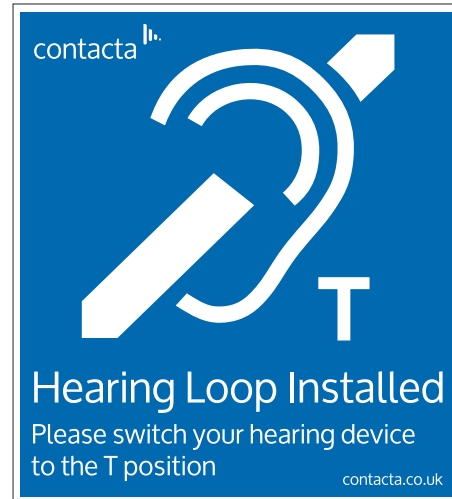
## Hearing Loop Sign

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

Our signage is available with either an adhesive back or an adhesive front.

### Physical Data:

<b>Dimensions</b>	Width - 90mm (3.54") Height - 100mm (3.94") Depth - 0.22mm (0.01")
<b>Weight</b>	N/A
<b>Construction</b>	N/A
<b>Finish</b>	Reflective Matt PVC Surface



## Power Supply

Available with either UK, EU or US IEC lead.

Complies with relevant European and North American EMC and safety standards.

### Physical Data:

<b>Dimensions</b>	Height - 93mm (3.66") Width - 49mm (1.93") Depth - 36mm (1.42")  Cable length - 1.8m (70.87")
<b>Weight</b>	0.048kg (0.11lbs)
<b>Construction/Finish</b>	Black ABS Case

### Technical Data:

<b>Input</b>	100-240V 50-60Hz 1A max.
<b>Output</b>	14V 2.14A 30W max.

# Microphones

## Small Boundary Microphone

This boundary microphone is ideal for use with our Portable Loop (see page 8) and the "Home Loop" driver (page 9) to provide an additional sound source.



### Physical Data:

Dimensions (Boxed)	Height - 190mm (7.48") Width - 170mm (6.69") Depth - 50mm (1.96")
Weight	0.2kg (0.44lb)

### Technical Data:

Frequency Response	20-16Khz
Sensitivity	-65dB+/-3dB (0dB=1V/u)
Impedance	Low
Directional Response	-65dB+/-3dB (0dB=1V/u)



Also available with a brass stem or without the halo light indication

## Halo Microphone

This microphone comes standard with our 1 to 1 hearing loop kits.

It features a noise cancelling capsule and a halo light indication (at the base of the microphone stem), which lights up green when the system is working correctly and red when there is a fault detected.

It is suitable for use in customer facing situations where there may be a high ambient noise level, and it can be easily mounted to a table top using standard self-adhesive pad.

### Physical Data:

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

### Technical Data:

Directional response	Omni-directional
Frequency response	70Hz – 20KHz
Sensitivity	46dB @ 1KHz
Distortion	Typically less than 1%

## Mouse Microphone

This is a discrete microphone installed on the staff side of the counter or desk using double sided tape.

Termination is via a single cable with a green connector ready for a push connection onto the loop driver.



### Physical Data:

<b>Dimensions</b>	Height – 12.4mm (0.49") Width – 24.65mm (0.97") Length – 25.5mm (1")  Connection cable length – 2m
<b>Weight</b>	26g (0.57lbs)
<b>Construction</b>	ABS Plastic
<b>Finish</b>	Black Fine Texture

### Technical Data:

<b>Directional response</b>	Omni-directional
<b>Frequency response</b>	70Hz – 20KHz
<b>Sensitivity</b>	46dB @ 1KHz
<b>Distortion</b>	Typically less than 1%

# Accessories

## Loop Listener

Our 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 aid switched to the "T" position.



### Applications:

- To determine if a hearing loop system is functioning correctly
- For someone with hearing difficulty who does not wear a hearing aid
- If a hearing aid does not have a "T" function

### Features:

- Flat frequency response
- Low cut filter
- More than 100 hours life with 2 x AAA batteries

### Physical Data:

Dimensions (boxed)	Height – 240mm (9.45") Width – 165mm (6.50") Depth – 40mm (1.58")
Weight (with headphones)	0.25kg (0.55lbs)
Construction/Finish	ABS Plastic

### Technical Data:

Output Power	10mW @ 1kHz (16Ω)
Distortion	Less than 0.5% THD @ 1KHz

**What's included:** [The loop listener and a headset](#)



## Demo Kits

Our demo kits are designed to offer a solution to transport a selection of products in a secure and well presented format. This would prove to be a significant asset for any distributor, allowing you to professionally demonstrate to potential clients or customers.

### 1 to 1 Hearing Loop Demo kit

This demo kit includes two of our 1 to 1 loop systems, as well as a number of accessories.

#### Components:

- Portable loop. See page 8
- Portable loop storage shelf
- 1 to 1 driver. See page 11
- "Above the Counter" loop sign and aerial. See page 12
- Omni-directional mouse microphone. See page 15
- Noise cancelling halo microphone. See page 14



#### Physical Data:

Dimensions	Height – 20cm (7.87") Width – 55cm (21.65") Depth – 32cm (12.6")
Weight	6.80kg (15lbs)
Construction/Finish	Mild Steel



#### Physical Data:

Dimensions	Height – 20cm (7.87") Width – 55cm (21.65") Depth – 32cm (12.6")
Weight	6kg (13.23lbs)
Construction/Finish	Mild Steel

### "Home Loop" Demo Kit

This demo kit includes:

- Our domestic hearing loop driver that connects directly to a television or audio source. See pages 9 & 10
- External boundary microphone to amplify sounds external to the television such as a doorbell or phone. See page 14
- A loop pad is placed under the hearing aid wearers seat. See page 9
- Loop wire can be used around the room instead of a loop pad to cover a larger area. See page 9

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# Large Area Loops

Large area loops enhance customer service by improving accessibility.

Hearing loops allow you to realise the full potential of every interaction, transforming the listening experience for many and making everyday activities possible for those living with hearing loss. It has the potential to make your services easily accessible to the whole population and increase your audience.

At Contacta we do things differently. With a digital processor inside, our HLD7 and HLD9 drivers are super sleek and ultra-efficient, with no risk of overheating. The technology we put in these little boxes 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.



# Products

## Our Drivers

HLD5 20-21

HLD7 22-23

HLD9 24-25

Portable Large Area Loop 26-27

Accessories 28-32

Microphones 33-35

Receivers 36

Mixer 37

Demo Kits 38-39

# Our Drivers

## HLD5

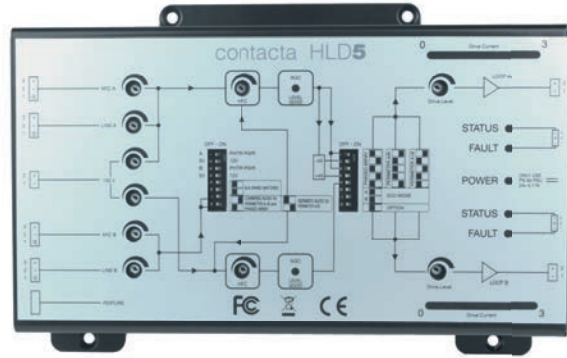
Our compact HLD5 is a standalone dual hearing loop driver with integral phase shifter for perimeter or phased array configuration, designed for smaller facilities and venues.

To make the experience of using our HLD5 as simple as possible, the driver includes sophisticated communications capabilities enabling system interrogation and performance monitoring.

### Applications:

Suitable for smaller sized facilities such as:

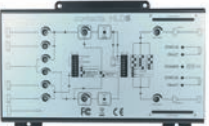


- Meeting rooms
- School rooms
- Nursing & care homes
- Reception & waiting areas
- Gyms & sports halls
- Educational establishments



### Features:

- Easily configurable, built-in 90° phase shift
- Ultra efficient power utilisation
- Sleep mode
- High frequency compensation
- Continuous self-testing
- Drive level indication
- Intelligent protection system
- Interface to external communication device
- 100v input line allowing interface with PA system

### What you will need:

	<p>Our driver is a special type of audio amplifier designed especially for driving hearing loops.</p>
	<p>Length of aerial dependant on the room size and type.</p>
	<p>An audio input such as a microphone. See pages 33-35 for our range of microphones.</p>
<p><b>We can provide you with extra accessories to help with your install. Please call us for more information.</b></p>	

**Physical Data:**

<b>Dimensions</b>	Height - 99mm (3.9") Width - 200mm (7.8") Depth - 40mm (1.6")
<b>Weight (boxed incl. power supply)</b>	1.5kg (3.3lbs)
<b>Construction/Finish</b>	Aluminium Powder Coated

**Technical Data:**

<b>Inputs</b>	MIC A: microphone	Balanced or unbalanced (depending on how wired) switch selectable standard phantom power of 12V or 3.3VDC for electret microphones
	MIC B: microphone	
	Line A: line level	0 dBV, adjustable
	Line B: line level	0 dBV, adjustable
	100V line	Transformer isolated, adjustable
<b>Loop output</b>	Loop A connection	2 x 2 way Phoenix screw terminal blocks
	Loop A drive current	3A RMS compliance current at 1 KHz sine wave
	Loop A drive voltage	7V RMS compliance voltage
	Loop B connection	2 x 2 way Phoenix screw terminal blocks
	Loop B drive current	3A RMS compliance current at 1 KHz sine wave
	Loop B drive voltage	7V RMS compliance voltage
<b>Status</b>	External LEDs or relays	2 x constant current drive @ 20mA, 22V max
<b>Feature</b>	External monitor & control	Contacta communications processor interface
<b>Audio</b>	Frequency response	100 Hz – 5kHz ( $\pm 3$ dB)
	Distortion	Better than -40dB, inputs at nominal level
<b>Automatic gain control</b>	Analog	Dynamic range: 40dB typical Attack time: 10 milliseconds Release time: 500mS
<b>Controls</b>	Function switching	All functions selectable via 2 sets of DIP switches; one set to select options on input and one set to select options on output
<b>Displays</b>	Output A & B	8 level bar graph with peak hold
	Other indications	LEDs for independent status indications per output

# HLD7

Our HLD7 is a modular hearing loop driver for perimeter or phased array configurations, designed for medium sized facilities such as; meeting rooms, lecture halls, places of worship and small theatres.

Ultra efficient management of power enables the unit to be extremely compact.

## Applications:

- Meeting & conference rooms
- Lecture halls
- Places of worship
- Nursing & care homes
- Reception & waiting areas
- Gyms & sports halls
- Educational establishments



## Features:

- Built-in 90° phase shift
- Flexible configuration
- Ultra efficient power utilisation
- Sleep mode
- High frequency compensation
- Continuous self-testing
- Accurate, lockable controls (front panel mounted)
- Input and drive level indication
- Intelligent protection system
- Flexible audio inputs
- Interface to external communication devices
- Digital Signal Processor

## What you will need:

	<p>Our driver is a special type of audio amplifier designed especially for driving hearing loops.</p>
	<p>Length of aerial dependant on the room size and type.</p>
	<p>An audio input such as a microphone. See pages 33-35 for our range of microphones.</p>
<p><b>We can provide you with extra accessories to help with your install. Please call us for more information.</b></p>	

## Physical Data:

<b>Dimensions</b>	Height - 44.5mm (1.75") Width - 200mm (7.87") Depth - 260mm (10.24")
<b>Weight (boxed incl. power supply unit)</b>	2.5kg (5.51lbs)
<b>Construction/Finish</b>	<b>Front &amp; Rear:</b> Mild Steel <b>Top &amp; Bottom:</b> Aluminium Powder Coated Black

## Technical Data:

<b>Inputs</b>	Input 1 (microphone)	Balanced XLR with switchable phantom power or ¼" TRS jack for electret microphone with 12VDC power via 680Ω load
	Input 2 (line)	Balanced XLR or ¼" TRS jack to ohmically isolated input
<b>Loop output</b>	Loop connection	4-pole speakON connector
	Loop drive current	6A RMS compliance current @ 1KHz sine wave
	Loop drive voltage	15V RMS compliance voltage
<b>Expansion</b>	Contacta interconnect	Input or output to or from additional Contacta systems. 90° phase shift selectable
<b>Status</b>	Volt-free relay contacts	SPCO
<b>Feature</b>	External monitor & control	Contacta communications processor interface
<b>Audio</b>	Frequency response	100 Hz – 5kHz (±3dB)
	Distortion	Better than -40dB, inputs at nominal level
<b>Automatic gain control</b>	Digitally controlled	Dynamic range: 40dB typical Attack time: 33 milliseconds Release time: 3.6dB per second
<b>Controls</b>	Microphone level	Off, then to maximum in 50 1dB increments
	Line level	Off, then to maximum in 50 1dB increments
	Loop current	Off, then to maximum in 63 1dB increments
	High frequency compensation	Flat to 6dB boost in 7 increments
	Function switching	All functions selectable from front panel buttons, held in non-volatile memory
	Security	Controls may be locked against tampering
<b>Displays</b>	Microphone level	8 level bar graph with peak hold, 6dB steps
	Line level	8 level bar graph with peak hold, 6dB steps
	Output drive level	8 level bar graph with peak hold, 0.6A steps
	Other indications	LEDs for all setup and status indications

# HLD9

Our HLD9 is a pioneering modular hearing loop driver for perimeter or phased array configurations, suitable for large area applications such as theatres, conference facilities, sports arenas, concert halls and auditoria.

As a Class D driver, it manages power extremely efficiently meaning that it emits very little heat from its compact packaging.

To make the experience of using it as simple as possible, the driver includes sophisticated communications capabilities enabling remote set-up and control of levels as well as system interrogation and performance monitoring.

## Applications:


- Theatres
- Concert halls
- Places of worship
- Sports arenas
- Conference facilities



## Features:

- Built-in 90° phase shift
- Flexible configuration
- Ultra efficient power utilisation
- Sleep mode
- High frequency compensation
- Continuous self-testing
- Accurate, lockable controls (front panel mounted)
- Input and drive level indication
- Intelligent protection system
- Flexible audio inputs
- Interface to external communication devices

## What you will need:

	<p>Our driver is a special type of audio amplifier designed especially for driving hearing loops.</p>
	<p>Length of aerial dependant on the room size and type.</p>
	<p>An audio input such as a microphone. See pages 33-35 for our range of microphones.</p>
<p><b>We can provide you with extra accessories to help with your install. Please call us for more information.</b></p>	



## Physical Data:

<b>Dimensions</b>	Height - 63mm (2.48") Width - 200mm (7.87") Depth - 266mm (10.47")
<b>Weight (boxed incl. internal power supply unit)</b>	2.5kg (5.51lbs)
<b>Construction/Finish</b>	<b>Front &amp; Rear:</b> Mild Steel <b>Top &amp; Bottom:</b> Aluminium Powder Coated Black

## Technical Data:

<b>Inputs</b>	Input 1 (microphone)	Balanced XLR with switchable phantom power or ¼" TRS jack for electret microphone with 3.3VDC power via 680Ω load
	Input 2 (line)	Balanced XLR or ¼" TRS jack to ohmically isolated input
<b>Loop output</b>	Loop connection	4-pole speakON connector
	Loop drive current	10A RMS compliance current @ 1Khz sine wave
	Loop drive voltage	36V RMS compliance voltage
<b>Expansion</b>	Contacta interconnect	Input or output to or from additional Contacta systems 90° phase shift selectable
<b>Status</b>	Volt-free relay contacts	SPCO
<b>Feature</b>	External monitor & control	Contacta communications processor interface
<b>Audio</b>	Frequency response	100 Hz – 5kHz (±3dB)
	Distortion	Better than -40dB, inputs at nominal level
<b>Automatic Gain Control</b>	Digitally controlled	Dynamic range: 40dB typical Attack time: 33 milliseconds Release time: 3.6dB per second
<b>Controls</b>	Microphone level	Off, then to maximum in 50 1dB increments
	Line level	Off, then to maximum in 50 1dB increments
	Loop current	Off, then to maximum in 63 1dB increments
<b>Displays</b>	Microphone level	8 level bar graph with peak hold, 6dB steps
	Line level	8 level bar graph with peak hold, 6dB steps
	Output drive level	8 level bar graph with peak hold, 0.6A steps
	Other indications	LEDs for all setup and status indications

# Portable Large Area Loop

Our 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.



## Features:

- Compact case on wheels with retractable handle
- Padded drawer to house accessories
- 2 channel receiver
- Ultra efficient power utilisation
- Sleep mode
- Continuous self-testing
- Accurate, lockable controls (front panel mounted)

## Applications:

Suitable for medium sized facilities such as:

- Meeting and conference rooms
- Lecture halls
- Places of worship

Can be used as a temporary solution for:

- Events
- Rooms where a permanent install is not achievable
- Travelling instructors or public speakers

## What's included:



HLD7 driver in travel case



Transmitter and receiver aerials



Handheld microphone & headset



Loop listener & headphones. See page 29

**Physical Data:**

<b>Dimensions</b>	Height - 254mm (10") Width - 540mm (21.25") Length - 368mm (14.5")
<b>Weight (boxed with power supply unit)</b>	13.5kg (29.76lbs)
<b>Construction/Finish</b>	Gator Case & Mild Steel Black Powder Coated Front/Rear Panels

**Technical Data:**

<b>Inputs</b>	Line input	3.5mm auxilliary
	Mic input - pre-installed	2 channel wireless
<b>Loop output</b>	Loop connection - pre-installed	Banana plugs
<b>Audio</b>	Frequency response	100 Hz – 5kHz ( $\pm 3$ dB)
	Distortion	Better than -40dB, inputs at nominal level
<b>Automatic gain control</b>	Digitally controlled	Dynamic range: 40dB typical Attack time: 33 milliseconds Release time: 3.6dB per second
<b>Controls</b>	Microphone & line level	8 bar graph with peak hold, 6dB steps
	Output drive level	8 bar graph with peak hold, 0.6A steps

# Accessories

## Rack Cabinet

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



### Physical Data:

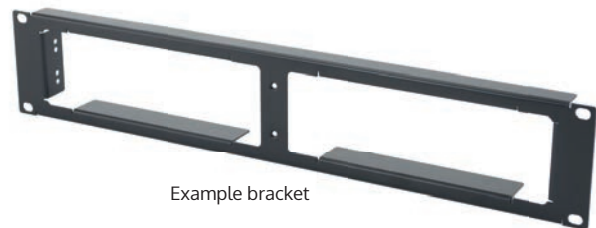
<b>Dimensions</b>	Height – 320mm (12.6") Width – 550mm (21.7") Depth – 450mm (17.7")
<b>Weight</b>	200g (0.44lbs)
<b>Panel Space</b>	Height - 266.7mm (10.5") Weight - 11.3kg (24.9lbs)
<b>Construction</b>	Steel
<b>Finish</b>	Black RAL 9005

For use with any 19" rack mountable products such as:

- HLD7 & HLD9
- Radio microphone receiver
- Audio mixer

## Brackets

Our brackets are used to mount the driver to a 19" rack and would be suitable for mounting with existing equipment.



Example bracket

### Physical Data:

	Dimensions	Construction/Finish
<b>Single HLD7</b>	1U Depth - 15mm (0.59")	Mild Steel/Black Powder Coated
<b>Double HLD7</b>	1U Depth - 27mm (1.06")	
<b>Single HLD9</b>	2U Depth - 30mm (1.18")	
<b>Double HLD9</b>	2U Depth - 30mm (1.18")	

## Loop Listener

Our loop listener is a compact listening device for interaction with hearing loop systems.

It enables people to listen to an induction loop system as if they were wearing a hearing aid switched to the "T" position.

### Applications:

- To determine if a hearing loop system is functioning correctly
- For someone with hearing difficulty who does not wear a hearing aid
- If a hearing aid does not have a "T" function

### Features:

- Flat frequency response
- Low cut filter
- More than 100 hours life with 2 x AAA batteries

**What's included:** The loop listener and a headset

### Physical Data:

Dimensions (boxed)	Height – 240mm (9.45") Width – 165mm (6.50") Depth – 40mm (1.58")
Weight (with headphones)	0.25kg (0.55lbs)
Construction/Finish	ABS Plastic

### Technical Data:

Output Power	10mW @ 1kHz (16Ω)
Distortion	Less than 0.5% THD @ 1KHz



## Signal Generator

Our signal generator is a compact hand held engineer's tool for large area loop installations.

It allows accurate measurement of hearing loop systems by using multiple frequencies to verify that the loop is working to the BS EN 60118-4 standard.

Easily switches between the following frequencies:

- 100Hz
- 500Hz
- 1KHz
- 2.5KHz
- 5KHz
- Pink noise
- White noise
- 1 Hour Auto power off



### Physical Data:

<b>Dimensions</b>	Height – 117.48mm (4.63") Width – 72.39mm (2.85") Depth – 25.4mm (1")
<b>Connecting cable (length)</b>	0.3m (11.81")
<b>Weight</b>	244g (0.54lbs)
<b>Construction/Finish</b>	ABS Plastic Housing/Standard FR4 B

### Technical Data:

<b>Signal Level</b>	-10dBv
<b>Connector</b>	XLR male/3 pin phoenix connector

## Remote Control Interface

The HLD Remote Control Interface is an accessory for the both the HLD 7 & 9 drivers.

The device is designed to provide a remote visual indicator of drive levels and adjustment during hearing loop commissioning.

It enables the installer to take measurements of loop output throughout the area of loop coverage and adjust the output levels without having to return to the driver(s), reducing installation time.

It allows the remote control of up to 6 HLD devices in standalone or phased configuration.



### Remote Interface Unit:

#### Physical Data:

<b>Dimensions</b>	Height - 40mm (1.57") Width - 116mm (4.6") Depth - 114mm (4.5")
<b>Weight (boxed)</b>	1.1kg (2.4lbs)
<b>Construction</b>	ABS Plastic Construction Housing
<b>Finish</b>	Matt Black, Fine Texture

#### Technical Data:

<b>Inputs</b>	DC power	2.1mm connector
	PC comms	RJ11 connector
	HLD drivers	RJ11 connector
<b>Display</b>	Status	LED bar

### Remote Control:

#### Physical Data:

<b>Dimensions</b>	Height - 110mm (4.3") Width - 66.5mm (2.6") Depth - 21mm (0.8")
<b>Weight (boxed)</b>	1.1kg (2.4lbs)
<b>Construction</b>	ABS Plastic Construction Housing
<b>Finish</b>	Matt Black, Fine Texture

#### Technical Data:

<b>Control</b>	HLD output drive level	Off, then to maximum in 63 1dB increments
<b>Displays</b>	Drive levels selected driver	8 level bar graph with peak hold
<b>Operating distance</b>	Interface unit to remote control - 75m (246ft)	-

## Digital Communication Unit

The Digital Communication Unit is used with our range of hearing loop drivers.

It is a M2M GSM based device which can send and receive SMS messages, and send email messages to a programmable email address.



The unit is designed to carry out two functions:

- Allow remote interrogation of the status of up to six of our drivers
- Monitor up to six Contacta drivers and send alert messages if a fault arises

The automatic alarm can indicate a number of things such as an aerial disconnect, power failure and general output stage failure.

### Physical Data:

<b>Dimensions</b>	Height - 400mm (1.57") Width - 116mm (4.6") Depth - 114mm (4.5")
<b>Weight (boxed)</b>	1.1kg (2.4lbs)
<b>Construction</b>	ABS Plastic Construction Housing
<b>Finish</b>	Matt Black, Fine Texture

### Technical Data:

<b>Inputs</b>	DC power	2.1mm connector
	PC comms	RJ11 connector
	HLD 5,7 or 9 drivers	RJ11 connector
<b>Display</b>	Status	LED bar



# Microphones

## Hand-held Microphone

Hand-held microphone with integrated multi-frequency transmitter, with UHF PLL technology.

### Physical Data:

Dimensions	Height - 265mm (10.43") Diameter - 51mm (2.01")
Weight	312g (0.69lbs)

### Technical Data:

Carrier Frequency	672.000-696.975MHz
Transmitting power	25mW/2.5mW
Audio frequency range	30-18,000Hz, $\pm 3$ dB
Frequency stability	$\pm 0.005\%$
Operating time	> 8h



### Features:

- Dynamic microphone cartridge
- 1,000 selectable UHF channels (672.000-696.975MHz), can be synchronised with the receivers TXS-606, TXS-626 or TXS-646 via ACT function
- Adjustable sensitivity
- LCD for group/channel, audio level and battery status
- Power supply via 2 x 1.5V battery AA size (not supplied)



### Features:

- 1,000 selectable UHF channels
- Continuously adjustable sensitivity
- LCD for group/channel, audio level and battery status
- Tie clip microphone with 3.5mm plug with latching device
- Belt clip
- Power supply via 2 x 1.5V battery AA size (not supplied)

## Multi-Frequency Tie Clip Microphone

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

### Physical Data:

Dimensions	Height - 106mm (4.17") Width - 61mm (2.40") Depth - 27mm (1.06")
Weight	0.125kg (0.28lbs)
Construction	Various
Finish	Black

### Technical Data:

Carrier frequency	672.000-696.975 MHz
Transmitting power	10 mW
Audio frequency range	30-18,000 Hz, $\pm 3$ dB
Frequency stability	$\pm 0.005\%$
Operating time	> 8 h

## Boundary Microphone

These microphones are small, surface mounted electret condenser microphones designed for mounting on conference tables, stage floors, and lecterns. Their wide frequency range makes them especially suited to picking up speech.

### Features:

- Flat frequency response across the vocal range for uncolored sound
- Sleek, low-profile design for unobtrusive appearance
- In-line preamp reduces visible size of microphone
- Available in either cardioid or omnidirectional models



### Physical Data:

Dimensions	Height - 90mm (3.54") Width - 16mm (0.63") Length - 90mm (3.54")
Weight	453.6g (1lb)

### Technical Data:

Polar Pattern	Omnidirectional
Frequency Response	50 to 17,000 Hz
Impedance	Rated at 150 Ω (170 Ω actual)
Polarity	Positive sound pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output connector
Power requirements	11 to 52 Vdc phantom, 2.0 mA



## Hanging Mini Shotgun Microphone

Suspended mini shotgun microphone with hyper cardioid capsule.

It has a fully flexible gooseneck shaft with knuckle joint.

### Physical Data:

Dimensions	Short Flexible Shaft 12mm (0.5")
Construction	Brass
Finish	Satin Black or White

### Features:

- Response optimised for consistent sound quality
- Unobtrusive slimline design
- Superior grade components
- Engineered in high quality brass
- Fully flexible Gooseneck shaft with knuckle joint
- Available in satin black or white

### Technical Data:

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

## 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
- Unobtrusive slimline design
- Engineered in high quality brass
- Fully flexible Gooseneck shaft with knuckle joint
- Phantom power adaptor on the fly included
- Available in satin black or white



### Physical Data:

<b>Dimensions</b>	Length - 215mm (8.5") Width - 12mm (0.5")
<b>Construction</b>	Brass
<b>Finish</b>	Satin Black or White

### Technical Data:

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

# Multi-Frequency Receivers

Multi-frequency receivers with 1,000 selectable UHF frequencies (672.000-696.975MHz) for each channel (10 groups with 100 channels each).



## Features:

- Automatic scan
- True diversity system with removable antennas (BNC connection)
- Volume and squelch can be adjusted for each channel
- LCD for group/channel, antenna A/B, RF transmitting level, AF audio level and additional LED level display for audio level of each channel
- XLR output for each channel, bal.
- 6.3mm output for mixed signal
- Supplied with power supply unit
- 482mm (19") rack installation

## 2 Channel Multi-Frequency Receiver:

### Physical Data:

<b>Dimensions</b>	Height - 45mm (1.77") Width - 482mm (18.98") Depth - 195mm (7.68")
<b>Weight</b>	1.8kg (3.97lbs)
<b>Finish</b>	Black

### Technical Data:

<b>Carrier frequency</b>	672.000-696.975 MHz
<b>RF S/N ratio</b>	105 dB
<b>Audio frequency range</b>	30-18,000 Hz
<b>THD</b>	< 0.5 %
<b>Dynamic range</b>	120 dB
<b>Audio output</b>	350 mV/600 Ω (jack)
	25 mV/600 Ω (XLR, bal.)
<b>Admiss. ambient temp.</b>	0-40 °C
<b>Power supply</b>	Via suppl.
	Plug-in PSU

## 4 Channel Multi-Frequency Receiver:

### Physical Data:

<b>Dimensions</b>	Height - 45mm (1.77") Width - 482mm (18.98") Depth - 310mm (12.20")
<b>Weight</b>	2.9kg (6.39lbs)
<b>Finish</b>	Black

### Technical Data:

<b>Carrier frequency</b>	672.000-696.975 MHz
<b>RF S/N ratio</b>	105 dB
<b>Audio frequency range</b>	30-18,000 Hz
<b>THD</b>	< 0.5 %
<b>Dynamic range</b>	120 dB
<b>Audio output</b>	350 mV/600 Ω (jack)
	25 mV/600 Ω (XLR, bal.)
<b>Admiss. ambient temp.</b>	0-40 °C
<b>Power supply</b>	Via suppl.
	Plug-in PSU

## 6 Channel Mixer

An audio mixer is a device that combines two or more separate signals.



### Features:

- 6 stereo line inputs, 6 balanced mono microphone inputs, switchable
- Adjustable automatic talkover (-12 dB), switchable for channel 1 or channels 1+2
- Balance control for each stereo input channel
- 3-way equalizer
- 12 V 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
- 482 mm (19") rack installation, 1 RS

### Physical Data:

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

### Technical Data:

Line input, stereo	100 mV/10 k $\Omega$
Microphone input	1 mV/6.6 k $\Omega$
Master output, stereo	1 V/600 $\Omega$
Record output, stereo	310 mV/600 $\Omega$
Headphones, stereo	> 8 $\Omega$
Frequency range	20-20,000 Hz
THD	0.1 %
S/N ratio	62 dB, unweighted
Equalizer, bass	$\pm$ 12 dB/50 Hz
Equalizer, midrange	$\pm$ 12 dB/1 kHz
Equalizer, treble	$\pm$ 12 dB/10 kHz
Power supply	230 V~/50 Hz/12 VA
Admiss. ambient temp.	0-40 $^{\circ}$ 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 6.3 mm jack

# Demo Kits

Our demo kits are designed to offer a solution to transport a selection of products in a secure and well presented format. This would prove to be a significant asset for any distributor, allowing you to professionally demonstrate to potential clients or customers.

## HLD5 Accessories Demo Kit

Showcase the driver and a selection of accessories in a secure and well presented format.

### Components:

- Standalone dual hearing loop driver with integral phase shifter for perimeter or phased array configuration, designed for smaller facilities. See pages 20 & 21
- Loop listener. See page 29
- Signal Generator. See page 30
- Remote Control Interface. See page 31



### Physical Data:

<b>Dimensions</b>	Height – 20cm (7.87") Width – 55cm (21.65") Depth – 32cm (12.6")
<b>Weight</b>	6.05kg (13.34lbs)
<b>Construction/Finish</b>	Mild Steel



### Physical Data:

<b>Dimensions</b>	Height – 20cm (7.87") Width – 55cm (21.65") Depth – 32cm (12.6")
<b>Weight</b>	9.35kg (20.61lbs)
<b>Construction/Finish</b>	Mild Steel

## HLD7 Demo Kit

Modular hearing loop driver for perimeter or phased-array configurations, suitable for medium sized facilities.

### Components:

- Two modular hearing loop drivers to show a master and slave setup. See pages 22 & 23
- Mounting bracket for 2 drivers. See page 28
- Aerial display case with different wire and tape options

## HLD 9 Demo Kit

Our top of the range driver that packs a powerful punch, suitable for large area applications.

### Components:

- Two drivers to show a master and slave setup. See pages 24 & 25
- Mounting bracket for 2 drivers to be mounted to a 19" 2U rack. See page 28
- Aerial display case with different wire and tape options



### Physical Data:

Dimensions	Height – 20cm (7.87") Width – 55cm (21.65") Depth – 32cm (12.6")
Weight	9.20kg (20.28lbs)
Construction/Finish	Mild Steel

# Speech Transfer Systems

Speech transfer systems enhance customer service by aiding and improving communication within your business.

With the help of the latest technology, when speech is transferred effectively through glazed partitions, customers and staff are guaranteed the best communication experience.

Our systems have been designed to fit into multiple situations and are easy to install, allowing everyone to converse freely and flawlessly.





# Products

## Speech Transfer Systems

Bridge Bar Kit	42
Surface Mounted Kit	43
Flush Mounted Kit	44
Curved Microphone Kit	45
Slimline Bridge Bar Kit	46

Components	47-49
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Demo Kit	50
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# Speech Transfer Systems

Our speech transfer systems provide assistance for clear communication where normal speech is impaired by use of glass, a security screen or other similar barriers.

There is also a hearing loop facility included with our systems, which provides assistance for hearing aid wearers, where high background noise is a problem or clear speech is restricted.

## Applications:





For use in any situation where one to one communication takes place at a counter, booth or desk, such as in:

- Banks
- Post offices
- Theatres
- Information Centres
- Airports

## Bridge Bar Kit

This kit includes our most popular combined speaker and microphone module.

### What's included:

	Duplex amplifier for speech systems with additional output for a hearing loop. See page 47.
	Customer speakers in bridge bar style with inbuilt microphone. See page 48 for more information.
	Free-standing staff microphone. For more information see page 48.
	Hearing loop aerial. See page 12 for more information.



### Physical Data:

<b>Dimensions (boxed)</b>	Height – 130mm (5.11") Width – 750mm (29.52") Depth – 290mm (11.41")
<b>Weight (boxed)</b>	4.25kg (9.37lbs)
<b>Construction</b>	Metalwork - Mild Steel Driver – ABS Plastic
<b>Finish Options</b>	GREY Powder Coated Leatherette 
	BLACK Textured Powder Coat 

## Surface Mounted Kit

This speech transfer kit features individual speaker and microphone units for the customer-side.



### What's included:

	Duplex amplifier for speech systems with additional output for a hearing loop. See page 47.
	Free standing speaker and microphone modules for use when a bridge bar is not suitable. See page 48 for more information.
	Free-standing staff microphone. For more information see page 48.
	Hearing loop aerial. See page 12 for more information.

### Physical Data:

<b>Dimensions (boxed)</b>	Height – 120mm (4.72") Width – 445mm (17.52") Depth – 370mm (14.57")
<b>Weight (boxed)</b>	3.15kg (6.94lbs)
<b>Construction</b>	Metalwork - Mild Steel Driver – ABS Plastic
<b>Finish Options</b>	GREY Powder Coated Leatherette 
	BLACK Textured Powder Coat 

## Flush Mounted Kit



This kit includes speakers that can be mounted into the surface for a sleek look.

### What's included:



	<p>Duplex amplifier for speech systems with additional output for a hearing loop. See page 47.</p>
	<p>Free standing speaker and microphone modules for use when a bridge bar is not suitable. See page 49 for more information.</p>
	<p>Free-standing staff microphone. For more information see page 48.</p>
	<p>Hearing loop aerial. See page 12 for more information.</p>

### Physical Data:





<p><b>Dimensions (boxed)</b></p>	<p>Height – 120mm (4.72") Width – 445mm (17.52") Depth – 370mm (14.57")</p>
<p><b>Weight (boxed)</b></p>	<p>2.70kg (5.95lbs)</p>
<p><b>Construction</b></p>	<p>Metalwork - Mild Steel Driver – ABS Plastic</p>
<p><b>Finish Options</b></p>	<p>GREY Powder Coated Leatherette </p> <p>BLACK Textured Powder Coat </p>

## Curved Microphone Kit

This kit includes a customer facing microphone and speaker unit in a curved arrangement. It can be curved to the left or the right to provide you with the perfect set up.



### What's included:

	Duplex amplifier for speech systems with additional output for a hearing loop. See page 47.
	Half bridge bar unit with microphone.
	Free-standing staff microphone. See page 48 for more information.
	Hearing loop aerial. See page 12.





### Physical Data:

<b>Dimensions (boxed)</b>	Height - 300mm (11.81") Width - 310mm (12.2") Depth - 160mm (6.3")
<b>Weight (boxed)</b>	2.6kg (5.7lb)
<b>Construction</b>	Metalwork - Mild steel, Driver - ABS Plastic
<b>Finish</b>	Black Textured Powder Coat

## Slimline Bridge Bar Kit

This kit features a slimline stainless steel bridge bar unit for the customer side with a screen-mounted microphone.

### What's included:

	<p>Duplex amplifier for speech systems with additional output for a hearing loop. See page 47.</p>
	<p>Slimline bridge bar unit in stainless steel.</p>
	<p>Free-standing staff microphone. See page 48 for more information.</p>
	<p>Hearing loop aerial. See page 12.</p>



### Physical Data:

<p><b>Dimensions (boxed)</b></p>	<p>Height - 500mm (19.7") Width - 260mm (10.2") Depth - 135mm (5.3")</p>
<p><b>Weight (boxed)</b></p>	<p>2.85kg (6.28lb)</p>
<p><b>Construction</b></p>	<p>Various</p>
<p><b>Finish</b></p>	<p>Various</p>

# Components

## Amplifier

Our amplifier provides full open duplex communication and is compatible with all of our speech transfer products.

### Features:

- Energy-saving "green" standby mode is automatically used, achieving a power saving of up to 80%
- Advanced audio processing features AGC, compression, and noise gate
- Constant-current loop drive (with engineer adjustable loop drive level)
- Isolated audio line input / output allows additional ohmically isolated line level audio input or output to recording system (factory options, not available together)
- LED column indicator aids adjustments and indicates power and status
- Continuous self-testing means that no specialized equipment is required to confirm functionality
- DC Power: 2.1mm DC jack
- Power and status indication: Green/red LED column



### Physical Data:

<b>Dimensions</b>	Height 116mm (4.57") Width 115mm (4.53") Depth 40mm (1.57")
<b>Weight</b>	100g (0.22lbs)
<b>Construction</b>	ABS Plastic Construction Housing
<b>Finish</b>	Matt Black, Fine Texture

### Technical Data:

<b>Supply voltage</b>	12-14 VDC
<b>Quiescent current</b>	100mA typical
<b>Operating current</b>	2A typical on speech peaks
<b>Power switch</b>	Push on - push off (tact switch under membrane)
<b>Microphones</b>	Electret, supply 5V via 2.2K load resistor
<b>Speaker Output power</b>	RMS: 2.5W / 8 4.4W / 4
<b>Loop drive compliance</b>	Constant current, bounded by 4V RMS & 2A RMS
<b>Total harmonic distortion</b>	<5% (loop and speakers)

## Staff Loudspeaker Unit

Our free-standing combined speaker and microphone module for the staff side with rigid neck microphone and push-to-talk button.



### Physical Data:

<b>Dimensions (boxed)</b>	Height - 70mm (2.76") Width - 100mm (3.94") Depth - 160mm (6.30")
<b>Weight (boxed)</b>	0.85kg (1.87lbs)
<b>Construction</b>	Mild Steel
<b>Finish</b>	Powdercoated Grey Leatherette or Matt Black

### Technical Data:

<b>RMS</b>	5W
<b>Impedance</b>	4 Ω
<b>Output</b>	SPL 1W @ 1M 85dB
<b>Frequency Response</b>	150Hz - 10300Hz



## Bridge Bar Customer Unit

Our most popular combined speaker and microphone module for the customer side.

### Physical Data:

<b>Dimensions (boxed)</b>	Height - 130mm (5.12") Width - 750mm (29.53") Depth - 290mm (11.42")
<b>Weight (boxed)</b>	4.25kg (9.37lbs)
<b>Construction</b>	Mild Steel
<b>Finish</b>	Powdercoated to Grey BS 00 A 05 Leatherette

### Technical Data:

<b>RMS</b>	5W
<b>Impedance</b>	2 x 4 Ω
<b>Output</b>	SPL 1W @ 1M 85dB
<b>Frequency Response</b>	150Hz - 11000Hz

## Surface Mounted Speaker & Microphone

Our free-standing speaker and microphone modules for the customer side.



### Physical Data:

<b>Dimensions (boxed)</b>	Height - 75mm (2.95") Width - 60mm (2.36") Depth - 110mm (4.33")
<b>Weight (boxed)</b>	0.55kg (1.21lbs)
<b>Construction</b>	Mild Steel
<b>Finish</b>	Powdercoated to Grey BS 00 A 05 Leatherette

### Technical Data:

<b>RMS</b>	5W
<b>Impedance</b>	4 Ω
<b>Output</b>	SPL 1W @ 1M 85dB
<b>Frequency Response</b>	150Hz - 10300Hz



## Flush Speaker & Microphone

A speaker and a microphone set that can be mounted into the surface for a sleek look.

### Physical Data:

<b>Dimensions</b>	Height - 50mm (1.97") Width - 65mm (2.56") Depth - 120mm (4.72")
<b>Weight</b>	0.45kg (0.99lbs)
<b>Construction</b>	Mild Steel, Zintec - Case
<b>Finish</b>	Powdercoated to Grey BS 00 A 05 Leatherette



### Technical Data:

<b>RMS</b>	5W
<b>Impedance</b>	4 Ω
<b>Output</b>	SPL 1W @ 1M 85dB
<b>Frequency Response</b>	150Hz - 10300Hz



## Break Out Box

B.O.B can be used with a headset as a replacement to the staff unit, or as an additional option to the staff unit.

B.O.B is particularly useful in environments where background noise is affecting your staff member's ability to hear their customer. Used with a headset, it helps to reduce background noise by negating the need for a staff loudspeaker.

The main unit can be mounted on any flat surface.

### Physical Data:

<b>Dimensions</b>	Height - 20mm (0.79") Width - 117.6mm (4.63") Depth - 39mm (1.54")
<b>Weight</b>	100g (0.22lbs)
<b>Construction/Finish</b>	Mild Steel Black Powder Coated

### Technical Data:

<b>Connections</b>	Headset microphone – B.O.B. microphone	3.5mm TRS connection
	Headset loudspeaker(s) – B.O.B. headphones	3.5mm TRS connection
	B.O.B. microphone (grey sleeve) – STS-A31	2 pin Euro-block connector
	B.O.B. loudspeaker (black sleeve) – STS-A31	2 pin Euro-block connector
	STS-F70 – B.O.B. MIC	2 pin Euro-block connector
	STS-F70 – B.O.B. SPKR	2 pin Euro-block connector

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# Demo Kits

## Speech Transfer Demo Kit

Demonstration kit holding our versatile speech transfer system with integrated hearing loop.

### Components:

- Free standing speaker and microphone modules. See page 48
- Bridge bar unit. For more information see page 48
- Staff unit featuring speaker and microphone. See page 48 for more information
- Duplex amplifier. See page 47
- Hearing loop. For more information see page 12



### Physical Data:

<b>Dimensions</b>	Height – 23cm (9.06") Width – 68cm (26.78") Depth – 32cm (12.6")
<b>Weight</b>	10.55kg (23.26lbs)
<b>Construction/Finish</b>	Mild Steel

## Queue Management System

Queue management systems enhance customer service by maintaining order and easing the stress of queueing.

Our Queue Management System enables optimum management of single line queues to a maximum of 16 service positions.



# Queue Management System

Our Queue Management System enables efficient management of queues, so customers are served quickly and staff can operate efficiently.

Orderly queuing maximises throughput and promotes customer satisfaction by providing customers with both audio and visual direction to the next available position. This reduces the possibility of misunderstandings or confusion amongst those waiting and assists customers with poor eyesight and/or hearing loss, ensuring that they feel included and well served.

The modular system is simple to install and cabling can be concealed within counter frames for a neat appearance.



## Applications:

Suitable for use in any situation where queue management is required such as in:

- Banks and Building Societies
- Post Offices
- Theatres
- Airports
- Retail Shops
- Supermarkets
- Petrol Stations
- Train Stations
- Theme Parks

## What's included:



This is the main controller for the system and can be used in a standalone audio message mode or incorporate a numerical main display with scrolling text for the head of the main display.



The main display is used to instruct customers which position is now available.



This is the cashier control box, used by the cashier to indicate their position is available.



This box provides a connection between the cashier control box and the cashier display.



The cashier display will sit above the position to illustrate the position number.



This is the power supply that connects the system to the mains supply.

## Physical Data:

<b>Dimensions</b>	<b>Main Controller:</b> Height - 116.2mm (4.57") Width - 116mm (4.57") Depth - 40mm (1.57")
	<b>Junction Box:</b> Height - 26.2mm (1.03") Width - 88.93mm (3.50") Depth - 80mm (3.15")
	<b>Cashier Control Box:</b> Height - 92mm (3.62") Width - 66.5mm (2.62") Depth - 20.9mm (0.82")
	<b>Main Display:</b> Height - 250mm (9.84") Width - 286mm (11.26") Depth - 66mm (2.60")
	<b>Cashier Display:</b> Height - 152.2mm (5.99") Width - 111.2mm (4.38") Depth - 16mm (0.63")
<b>Total Weight</b>	13kg (28.66lbs)
<b>Installation Requirements</b>	Standard UK mains socket of 230v at 3A must be in close proximity to controller box.

## Technical Data:

Function	Detail	Notes
<b>Power Requirement</b>	24V / 4.13 A	
<b>Interconnections</b>	RJ45 Screw Terminal RJ11	1. Connection to main display 2. Connection to additional junction boxes Connection to cashier display Connection to cashier control box

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