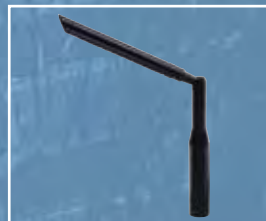
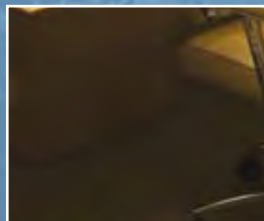
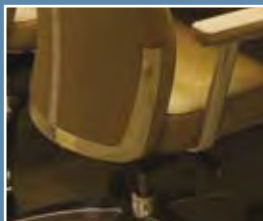
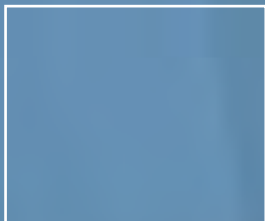
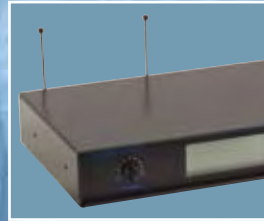


CLOCKAUDIO[®]

PROFESSIONAL MICROPHONE SYSTEMS



Clearly different.

Introduction

Since its formation in 1994, Hampshire (UK) based Clockaudio has achieved a position of high regard within the professional audio industry.

The company's reputation has been built on sound principles; its dedication to quality and service has gained the respect of all those who have encountered its products and staff.

Today, tributes and endorsements continue to precede Clockaudio into an ever-increasing territory, helping the company to attract worldwide representation without the fanfare of its contemporaries.

Audio professionals now actively seek out and recommend Clockaudio for its reputation as a trusted, proactive and dedicated manufacturer, and for its recognised customer driven approach to audio solutions.

Central to this is Clockaudio's in-house research and development facility, which allows clients to explore customised prototypes and develop incredibly specific briefs in partnership directly with the manufacturer, often working to very short deadlines and in low volumes. This partnership approach has struck a chord with consultants and contractors alike, giving them the opportunity to become involved in developing the ideal solution rather than having to make do with the most suitable off-the-shelf item.

This ability to customise is just one of the many factors which make the Clockaudio of today clearly different in a world of identikit manufacturers. Sixteen years since its inception, Clockaudio remains true to its founding principles - quality and service.



CLOCKAUDIO®

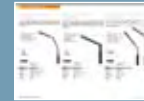
Clearly different.

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RF Series: GSM-friendly microphones and shock mounts

The **Clockaudio RF** product range has been developed in direct response to interference (noise) issues which have been introduced into microphones, IP phones, hearing aids, etc. by popular GSM devices such as PDAs and mobile phones with two-way walkie-talkie capability. The noise emitted from these devices can wreak havoc on everything from a simple phone call to a complex video conference, and everything in between.

These GSM devices emit a periodic hand shaking 'sync signal' to the nearest antenna tower even when these devices are at rest which creates noise, as well as data streaming noise when receiving or making calls, text messaging, sending or receiving e-mails or web surfing. Depending on the distance of the PDA or mobile device to the antenna tower, these devices will vary their strength in order to ensure proper hand shaking which can result in loud distracting noises which takes the focus away from the real business at hand; 'your business'.

Clockaudio's 'RF-Immunity' Series of microphones completely strips out this interference without any degradation of audio quality, frequency response or sensitivity, and allows the user to conduct business as usual without the need to have conference participants check their PDA or mobile phone at the door.

Availability options for RF-Immunity products in the Clockaudio microphone range continues to grow. RF-Immunity models are highlighted throughout the catalogue with the blue crossed-circle logo:



C 2 Series Goosenecks

Cardioid condenser gooseneck microphones designed for use in controlled acoustic environments such as schools, universities and public address paging systems.

Hypercardioid versions also available for noisy environments such as finance, transport termini and factory communications.

Features:

- Optimised for speech clarity
- Unobtrusive slimline design
- Fully-flexible or semi-rigid shafts
- Hypercardioid ideal for use in high ambient noise environments

Models:

- C 22** 200mm Base mount
- C 22E** 180mm XLR
- C 23** 300mm Base mount
- C 23E** 280mm XLR
- C 24** 400mm Base mount
- C 24E** 380mm XLR
- C 25** 500mm Base mount
- C 25E** 480mm XLR



- Includes W 2 windshield

C 3 Slimline Goosenecks

Stylish, slimline, flexible goosenecks with cardioid condenser microphone for use in boardrooms, conferencing and a wide variety of applications requiring unobtrusive and easily-detachable gooseneck microphones with consistent sound quality.

Features:

- 6mm Ø slimline, flexible gooseneck
- Tini Q mini-XLR termination for easy interchange
- Engineered in high quality brass

Models:

- C 3100** 100mm
- C 310-R** 100mm Rigid
- C 312-SR** 200mm Semi-rigid
- C 313-SR** 300mm Semi-rigid
- C 314-SR** 400mm Semi-rigid



These products are compatible with SM 20-RF, SM 80-RF, PPA-RF, S 140-RF and CW 9004.



- Includes W 2 windshield

Model:	C 2 Series	
Type	Cardioid	Hypercardioid
Frequency Response	70Hz ~ 14KHz	60Hz ~ 12KHz
Sensitivity	-67dB ±3dB at 1KHz (0dB=1v/u.bar)	-71dB ±3dB at 1KHz (0dB=1v/u.bar)
Impedance	XLR: 200Ω Open-Ended Type: 1.6kΩ	
S/N Ratio	64dB (A)	
Termination	XLR: Male 3 pin XLR Open Ended: M10 x 1 Thread with shakeproof washer & nut	
Power Requirements	XLR: 9 ~ 48v Phantom Power Open Ended Type: 1.5v max through series resistor	

Model:	C 3100
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N Ratio	64dB(A)
Maximum SPL	125dB 1% THD
Power Requirements	9 ~ 48v Phantom Power
Termination	3 pin female Tini Q connector
Dimensions	Head Ø 12mm Shaft Ø 6mm

◦ C 3 Series - Goosenecks

Cardioid condenser microphones designed for use in conference halls, places of worship, broadcasting and paging systems. Manufactured in high quality brass and finished in satin black.


Features:

- Response optimised for constant sound quality
- Superior grade components
- Finished in satin black
- Fully flexible or semi rigid gooseneck and knuckle joint options

Base Models:

- C 31** 180mm
- C 32** 280mm
- C 33** 380mm
- C 34** 480mm
- C 35** 580mm
- C 36** 680mm
- C 301** Knuckle 180mm

Options:

Also available with  RF-immunity and switch versions. See 'Available Gooseneck Options' (right) for full details.



- Includes W 2 windshield



◦ C 3 Halo Series - Goosenecks

These Halo versions of the C 3 Series are designed specifically for use in conference systems or other applications where speaker identification is required.


Features:

- High bright LED
- 5 pin XLR or base mounting

Base Models:

- C 31HALO** 180mm
- C 32HALO** 280mm
- C 33HALO** 380mm
- C 34HALO** 480mm
- C 35HALO** 580mm
- C 36HALO** 680mm
- C 301HALO** Knuckle 180mm

Options:

Also available with  RF-immunity and switch versions. See 'Available Gooseneck Options' (right) for full details.



- Includes W 2 windshield



◦ Available Gooseneck Options:

• XLR Connector Mount

3 or 5 pin male XLR, includes universal Phantom Power supply adaptor 9 ~ 48v with selectable bass cut filter* and -10dB pre attenuation pad (*Non RF models only)



• Shaft

Choice of fully flexible or semi rigid shafts



• Knuckle Joint

Unique design feature allowing horizontal rotation and verticle angle adjustment



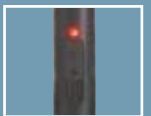
• LED Halo

High bright Halo LED for speaker identification



• ON/OFF Switch

Silent, magnetic ON/OFF switch with LED indicator (RF models only)



• RF-immunity

Immune to RF artefacts - fully shielded against Radio Frequency Interference (RFI) from GSM devices operating in the 800MHz ~ 1.2GHz bandwidth



Model:	C 3 Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	XLR: 200Ω
S/N Ratio	64dB(A)
Power Requirements	XLR: 9 ~ 48v Phantom Power
Termination	XLR: Male 3 pin XLR

Model:	C 3 Halo Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	XLR: 200Ω
S/N Ratio	64dB(A)
Power Requirements	XLR: 9 ~ 48v Phantom Power
Termination	XLR: Male 5 pin XLR

◦ C 800 Goosenecks (Mini Shotgun)

Slim, mini shotgun, hypercardioid microphone developed for speech purposes in a wide range of pro and live sound applications including places of worship, conference and leisure centres, banks and financial trading centres.

Features:

- Optimised for speech clarity
- Slimline gooseneck
- Superior grade components
- Finished in satin black

Models:

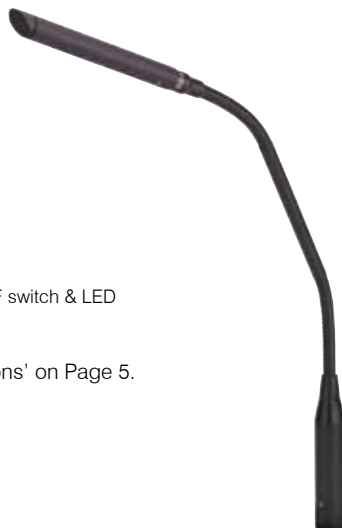
- C 800**
- C 800E**
-  **C 800E-RF**
-  **C 801ES-RF** With ON/OFF switch & LED

Options:

See 'Available Gooseneck Options' on Page 5.



- Includes W 8 windshield



◦ C 801 Knuckle Joint (Mini Shotgun)

Slim, mini shotgun, hypercardioid condenser microphone suitable for speech in a wide range of pro and live sound applications including places of worship, conference and leisure centres, banks and financial trading centres. Fitted with a knuckle joint giving both lateral and vertical adjustment.

Features:

- Optimised for speech clarity
- Knuckle joint fixing
- Superior grade components
- Finished in satin black

Models:

- C 801**
- C 801E**
-  **C 801E-RF**
-  **C 801ES-RF** With ON/OFF switch & LED

Options:

See 'Available Gooseneck Options' on Page 5.



- Includes W 8 windshield



◦ C 815E-RF & C 816E-RF Goosenecks (Mini Shotgun)



Slimline, hypercardioid shotgun microphones for high quality speech in professional recording and live broadcasting applications.

Engineered in high quality brass and finished in satin black.

Features:

- Hypercardioid polar pattern
- Slimline shotgun
- Superior grade components
- Unobtrusive design
- Finished in satin black

Models:

-  **C 815E-RF**
-  **C 816E-RF** Semi-rigid

Options:

See 'Available Gooseneck Options' on Page 5.



- Includes W 85 windshield



Model:	C 800 Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB = 1v/Pa)
Impedance	XLR: 200Ω
Power Requirements	XLR: 9 ~ 48v Phantom Power
S/N Ratio	64dB(A)
Termination	XLR: Male 3 pin XLR

Model:	C 801 Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB = 1v/Pa)
Impedance	XLR: 200Ω
Power Requirements	XLR: 9 ~ 48v Phantom Power
S/N Ratio	64dB(A)
Termination	XLR: Male 3 pin XLR

Model:	C 815E-RF & C 816E-RF
Frequency Response	50Hz ~ 18KHz
Sensitivity	-45dB ±3dB at 1KHz (0dB = 1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	64dB(A)
Termination	Male 3 Pin XLR

◦ C 420E Twin Mount

Cardioid condenser microphones mounted on twin rigid shafts vertically adjustable, individually, through 180°. Individually powered, providing live redundant capability so often required in a live broadcast situation. Finished in satin black.

Features:

- Optimised for consistent sound quality
- Integrated Phantom Power Adaptor
- 5 pin XLR mounting
- Shaft angles independently adjustable



Models:

C 420E



- Includes W 2 windshield

Model:	C 420E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-44dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N Ratio	64dB(A)
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 5 Pin XLR

◦ C 430E Twin Mount

Cardioid condenser microphones mounted on twin rigid shafts vertically adjustable, individually, through 180°. Individually powered, providing live redundant capability so often required in a live broadcast situation. Finished in satin black.

Features:

- Integrated Phantom Power Adaptor
- 5 pin XLR mounting
- Shaft angles independently adjustable
- Three microphone head variants - C 900, C 3H & C 800H



Models:

C 430E



- Includes W 2 windshield

Model:	C 430E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-44dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N Ratio	64dB(A)
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 5 Pin XLR

Capsule options available:



- **C 900**
Rugged Cardioid condenser microphone capsule



- **C 3H**
Slimline Cardioid condenser microphone capsule



- **C 800H**
Hyper-cardioid Mini shotgun condenser microphone capsule

◦ C 440E Twin Mount

Cardioid condenser microphones mounted on twin rigid shafts vertically adjustable, individually, through 180°. For use in a wide variety of applications including presentations, conferences, broadcasting and places of worship. Finished in satin black.

Features:

- Attractive slimline design
- Optimised for consistent sound quality
- Integrated Phantom Power Adaptor
- 3 pin XLR mounting
- Shaft angles independently adjustable



Models:

C 440E



- Includes W 2 windshield

Model:	C 440E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-44dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB Switchable Pad	✓
S/N Ratio	64dB(A)
Termination	Male 3 Pin XLR



◦ C 900 Combination Series

A series of easily interchangeable microphones, stands and shafts giving flexibility in choice of microphone and accessories for a wide range of applications including broadcast, conference halls, places of worship, leisure centres, etc. Finished in satin black.

Microphones

- **C 900** Rugged wide band cardioid condenser microphone for multiple use
- **C 3H** Short slimline cardioid condenser microphone for use in controlled acoustic environments
- **C 800H** Hyper-cardioid condenser mini shotgun microphone useful in a wide range of pro and live sound speech applications



Model:	C 900	C 3H	C 800H
Frequency Response	50Hz ~ 20KHz	50Hz ~ 18KHz	50Hz ~ 18KHz
Sensitivity	-48dB	-47dB	-47dB
		± 3dB at 1KHz (0dB = 1v/Pa)	
Power Requirements	1.8KΩ	1.8KΩ	1.8KΩ
	All models 9 ~ 48v via a Phantom Power Adaptor (PPA)		
S/N Ratio	68dB(A)	64dB(A)	64dB(A)
Termination	Male 3 pin Tini Q connector		

◦ CA 700/CA 900 Floor Standing Long Shafts

Long, rigid shafts of 700mm and 1200mm respectively. Each connects to a short (350mm) upright shaft by a separate, lockable swivel joint allowing adjustments to angle, height and reach.

Features:

- Long Shaft includes Phantom Power Adaptor at bottom end terminated in Male 3 pin XLR
- Knuckle joint at microphone end terminated with Tini Q 3 pin female connector
- Short shaft connects to SM 155 floor mounting, shock absorbing base

Models:

- **CA 700** 700mm
- **CA 700-RF** 700mm
- **CA 900** 900mm
- **CA 900-RF** 900mm



◦ CA 30/CA 40 Semi Rigid Shafts

Semi-rigid 300mm and 400mm shafts fitted with Phantom Power Adaptor at the bottom end terminated in Male 3 pin XLR and knuckle joint at tip with Tini Q 3 pin Female connector.

Features:

- Integrated Phantom Power Adaptor
- Male 3 pin XLR termination
- Finished in satin black

Models:

- **CA 30** 300mm
- **CA 30-RF** 300mm
- **CA 40** 400mm
- **CA 40-RF** 400mm



◦ CAK 1

Phantom Power Adaptor with knuckle and Tini Q 3 pin Female connector.

Models:

- CAK 1**
-  **CAK 1-RF**



◦ S 750

Table microphone base fitted with knuckle and Tini Q 3 pin Female connector. Terminated with 3m of cable requiring a Phantom Power Adaptor. Diameter 75mm, height including connector 75mm.

Models:

- S 750**



◦ SM 155

Floor mounting, shock absorbing microphone base of diameter 155mm and height 42.5mm.

Models:

- SM 155**




◦ C 901E Series (featuring 900 Capsule)

These 'ready-made' C 900 Series Microphones feature the C 900 cardioid condenser capsule and CAK Phantom Power Adaptor with knuckle joint for horizontal rotation and verticle angle adjustment.

Features:

- Integrated Phantom Power Adaptor
- Male 3 pin XLR termination
- Finished in satin black

Models:


-  **C 901E-RF**
-  **C 901ES-RF** With ON/OFF switch & LED



• C 901E-RF

• C 901ES-RF

Model:	C 901E-RF	C 901ES-RF
Frequency Response	50Hz ~ 20KHz	
Sensitivity	-48dB ± 3dB @ 1KHz (0dB=1v/Pa)	
Impedance	200Ω	
S/N Ratio	68dB(A)	
Power Requirements	9 ~ 48v Phantom Power	
Termination	Male 3 Pin XLR	

 = RF-Immunity Version

◦ D 33/D 34 Dynamic Goosenecks

Dynamic cardioid gooseneck microphones designed for speech purposes in a variety of commercial audio applications.

Features:

- Rugged all-metal construction
- Response optimised for speech
- Fully flexible or semi-rigid shaft
- Finished in satin black



Models:

- D 33** 300mm Base mount
- D 33E** 350mm 3 pin XLR
- D 34** 425mm Base mount
- D 34E** 475mm 3 pin XLR

Model:	D 33/D 34
Frequency Response	150Hz ~ 12KHz
Sensitivity	-63.5dB ± 3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Termination	M10 x 1 thread with shakeproof washer and nut or Male 3 pin XLR

◦ D43/D44 Dynamic Goosenecks

Dynamic cardioid gooseneck microphone suitable for speech purposes in a variety of commercial audio applications.

Features:

- Rugged all-metal construction
- Response optimised for speech
- Finished in satin black



Models:

- D 43** 300mm Base mount
- D 43E** 350mm 3 pin XLR
- D 44** 400mm Base mount
- D 44E** 450mm 3 pin XLR

Model:	D 43/D 44
Frequency Response	150Hz ~ 12KHz
Sensitivity	-60dB ± 3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Termination	M10 x 1 thread with shakeproof washer and nut or Male 3 pin XLR

◦ DMB 1/DMB 2 Desk Paging Microphones

Simple but effective, easy to use Desk Paging cardioid microphones for use in all types of industrial, commercial, entertainment and retail paging applications.

Features:

- Single and two zone options
- Choice of dynamic cardioid microphones (D 33, D 34, D 43 or D 44)
- Latched or momentary switching
- Rugged, all-metal construction

Models:

- DMB 1** Single Zone
- DMB 2** Two Zone



◦ C 3SE Suspended Cardioid Microphones

Slim, wide band, cardioid condenser microphone designed to be suspended in places of worship, conference halls, theatres, etc.

Features:

- Response optimised for consistent sound quality
- Short, flexible shaft with knuckle joint for easy adjustment of vertical angle
- Made in high quality brass and finished in satin black or ivory
- 7.5m of cable attached
- Fully balanced and terminated in male 3 pin XLR
- Mounting plate option CP 73/73W

Models:

- **C 3SE** Black
- **C 3SE-RF** Black
- **C 3SEW** Ivory
- **C 3SEW-RF** Ivory



- Includes W 2 windshield



◦ C 8SE Suspended Hypercardioid Mini Shotgun Microphones

Slim, mini shotgun, hypercardioid condenser microphone designed to be suspended in places of worship, conference halls, theatres etc.

Features:

- Response optimised for consistent sound quality
- Short, flexible shaft with knuckle joint for easy adjustment of vertical angle
- Made in high quality brass and finished in satin black or ivory with 7.5m of cable attached
- Fully balanced and terminated in male 3 pin XLR
- Mounting plate option CP 73/73W

Models:

- **C 8SE** Black
- **C 8SE-RF** Black
- **C 8SEW** Ivory
- **C 8SEW-RF** Ivory



- Includes W 8 windshield



◦ CP 73 Ceiling Mounting Plate

Available in black or ivory versions, this ceiling mounting plate is for use with our C 3SE and C 8SE Suspended Microphones.



Models:

- **CP 73** Black
- **CP 73W** Ivory

Model:	C 3SE Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N ratio	64dB(A)
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 3 pin XLR

Model:	C 8SE Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-67dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N ratio	64dB(A)
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 3 pin XLR



◦ SM 20-RF

A low profile, through-table shock mount fitted with RF-immunity PPA with 3 pin Male Tini Q input connector.

Features:

- M25 threaded nut supplied
- Made in high quality brass, top
- Finished in satin black



Models:

 **SM 20-RF**

Model:	SM 20-RF
Height Above Surface	3mm
Diameter	31mm
Body Diameter	20mm
Depth Below Surface	75mm
Mounting hole	23.5mm

◦ SM 70

Smooth, low profile 74mm diameter, surface fitting, shock absorbing microphone holder and base. Finished in matt black



Models:

SM 70

Model:	SM 70
Overall Diameter	74mm
Height Above Surface	10mm
Body Diameter	51mm
Depth Below Surface	50mm

◦ SM 75

75mm diameter shock absorbing microphone base for permanent fitting above or below the surface.

Features:

- Supplied with female XLR and conversion adaptor for 3/8" BSW or 10mm screw fittings
- Finished in matt black



Models:

SM 75 3 pin XLR
SM 75x5 5 pin XLR

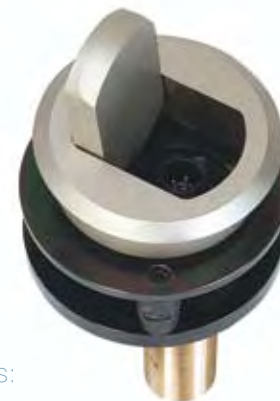
Model:	SM 75
Height	32mm 64mm including XLR
Base Diameter	75mm

◦ SM 80

A low profile, table-mounted shock mount fitted with flip cover to conceal connector when closed.

Features:

- 3 pin & 5 pin XLR connector versions available
- Finished in satin nickel or matt black
- RF option also available (3 pin Male Tini Q)



Base Models:

SM 80
SM 80S
 **SM 80-RF**



- SM 80S model with remote momentary or latching switch facility and red LED.

Model:	SM 80 Series
Height Above Surface	3mm
Diameter	58mm
Body Diameter	51mm
Body Below Surface	XLR version 61mm RF version 166mm

◦ SM 93 & SM 95

Low profile, recessed, shock absorbing microphone base.

Features:

- 3 pin & 5 pin XLR connector versions available
- Wiring connections are made via 3-way/5-way screw terminal block
- Finished in matt black



Models:

- SM 93** 3 pin XLR
- SM 95** 5 pin XLR

◦ S 133, S 135 & S 140




These stylish, RF-Immune microphone bases feature fully-programmable touch pad switch & LED for PTT, PTM and latching.

Features:

- RF-immune
- Heavy die-cast construction
- Touch pad switch
- Fully programmable
- LED indicator



Models:

-  **S 133** 3 pin XLR in, 3 pin XLR out
-  **S 135** 3 pin XLR in, 5 pin XLR out
-  **S 140** 3 pin Tini Q in, 5 pin XLR out with integrated PPA



◦ S 120

Table microphone base fitted with M10x screw thread mounting hole.

Features:

- 'Press-to-Talk' or latching switch option



Models:

- S 120**
- S 120S** PTT or latching switch

◦ S 120X Series

Table microphone base fitted with XLR connector.

Features:

- 'Press-to-Talk' or latching switch option
- 3 or 5 pin options



Models:

- S 120X** 3 pin XLR
- S 120XS** 3 pin XLR & switch
- S 120X-2** 3 pin XLR & 2m cable
- S 120XS-2** 3 pin XLR, switch & 2m cable
- S 120X5** 5 pin XLR
- S 120X5S** 5 pin XLR & switch
- S 120X5-2** 5 pin XLR & 2m cable
- S 120X5S-2** 5 pin XLR, switch & 2m cable

Model:	SM 93 / SM 95
Length	87mm
Width	82mm
Height Above Surface	9mm
Depth Below Surface	SM 93 32mm SM 95 22mm

Model:	S 133 / S 135 / S140
Switching	Touch pad fully programmable for PTT, PTM & Latching
Indication	Red LED
Power Requirements	48v Phantom Power
Dimensions	Length 120mm Width 100mm Height 32mm (60mm with XLR)
Weight	0.64kg

Model:	S 120
Height	32mm
Diameter	120mm
Weight	1.86kg

Model:	S 120X Series
Height	57mm (with XLR)
Diameter	120mm
Weight	1.86kg

◦ CRM 100-RF Retractable through-table omni-directional condenser microphone

The CRM100-RF is a boundary layer, through-table, omni-directional condenser microphone, with a built-in mechanism that will allow the user to make the microphone 'disappear' without having to physically remove it from the table. This is achieved by simply pressing the top of the microphone downwards until it locks; then by pressing the microphone again it will raise itself back to its original position above the surface of the table. Engineered in high quality brass with built-in shock mount and RF filter.

Features:

- Easy to install
- Low profile at surface level
- Unique ability to lock capsule away from sight when not in use
- Robust brass construction
- Omni-directional polar pattern
- Built-in RF filter
- Balanced output
- Supplied with 2m (6.6 ft) 2 core + screen cable
- Satin Nickel or Black Nextel finish



Models:

 **CRM 100-RF**

Model:	CRM 100-RF
Type	Condenser (Back Electret)
Polar Pattern	Omni-directional
Frequency Response	30Hz ~ 20KHz
Sensitivity	-42.5dB +/- 3dB @ 1KHz (0dB = 1v/Pa)
Impedance	200Ω
S/N Ratio	68dB(A)
Maximum SPL	120dB at 1KHz 1% T.H.D.
Power Requirements	9 ~ 48v Phantom Power
Termination	Open ended
Dimensions	Above Table: 15.00mm (0.59") Diameter: 36.00mm (1.42") Below Table: 111.00mm (4.37") Diameter: 30.00mm (1.18")

◦ CRM 102-RF Retractable through-table half-cardioid condenser microphone

The CRM102-RF is a boundary layer, through-table, cardioid condenser microphone, with a built-in mechanism that will allow the user to make the microphone 'disappear' without having to physically remove it from the table. This is achieved by simply pressing the top of the microphone downwards until it locks; then by pressing the microphone again it will raise itself back to its original position above the surface of the table. Engineered in high quality brass with built-in shock mount and RF filter.

Features:

- Easy to install
- Low profile at surface level
- Unique ability to lock capsule away from sight when not in use
- Robust brass construction
- Cardioid polar pattern
- Built-in RF filter
- Balanced output
- Supplied with 2m (6.6 ft) 2 core + screen cable
- Satin Nickel or Black Nextel finish



Models:

 **CRM 102-RF**

Model:	CRM 102-RF
Type	Condenser (Back Electret)
Polar Pattern	Half Cardioid
Frequency Response	50Hz - 18KHz
Sensitivity	-47dB +/- 3dB @ 1KHz (0dB = 1v/Pa)
Impedance	200Ω
S/N Ratio	64dB(A)
Maximum SPL	125db at 1KHz 1% T.H.D.
Power Requirements	9 ~ 48v Phantom Power
Termination	Open ended
Dimensions	Above Table: 15.00mm (0.59") Diameter: 36.00mm (1.42") Below Table: 111.00mm (4.37") Diameter: 30.00mm (1.18")

CS-RF Series Boundary Layer Professional Microphones

The CS Series (Consultant Series) was developed as a result of input and recommendations from key consultants in boardroom AV integration. The goal was to minimise the number of microphones on the conference table, but also keeping in mind performance, ease of installation and aesthetics, essential considerations in such projects.

The results of these discussions are the **CS 1-RF**, **CS 2-RF** and **CS 3-RF** microphones. The CS 2-RF is a dual element boundary layer condenser microphone, with a half-cardioid polar pattern. It is designed to be placed in the middle of the conference table, with each element facing the participants. This microphone accommodates bottom cable exit, for permanent mounting in boardroom situations. These microphones are made of solid brass and include a 2m cable with open-ended termination. The Phantom Power Adaptor (PPA) is incorporated in the brass housing and will accept 9 ~ 48v DC (Phantom Power).

Features:


- Half cardioid polar pattern
- Fully balanced
- High quality engineering in solid brass
- Non-reflective black Nextel or satin nickel

Model:	CS-RF
Microphone	Condenser (back electret)
Polar Pattern	Half cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	64dB(A)
Termination	Open ended multi-core cable


The CS 3-RF microphone has the same characteristics as the CS 2-RF with the addition of a third element. This microphone is to be positioned closer to the end of the conference table in order to capture the participants facing each other and also the participant sitting at the extremity of the table. If the participant at the end of the table is further away, it is then possible to use a combination of a CS 2-RF and CS 1-RF (single element version) to accommodate this situation.

The **CS 4-RF** is a new addition that completes the CS-RF Series microphone family, offering a 4-element microphone in a single housing. Like the CS 1, 2 and 3, the CS 4-RF offers half cardioid polar patterns and a bottom cable exit. The CS 4-RF can be positioned in the centre of a round conference table, giving maximum coverage from a small footprint. Engineered from high quality solid brass and finished in a durable non-reflective black Nextel or satin nickel. The CS 4-RF is also available in other customised colours and special finishes upon request.




 CS 2-RF - dual element boundary microphone



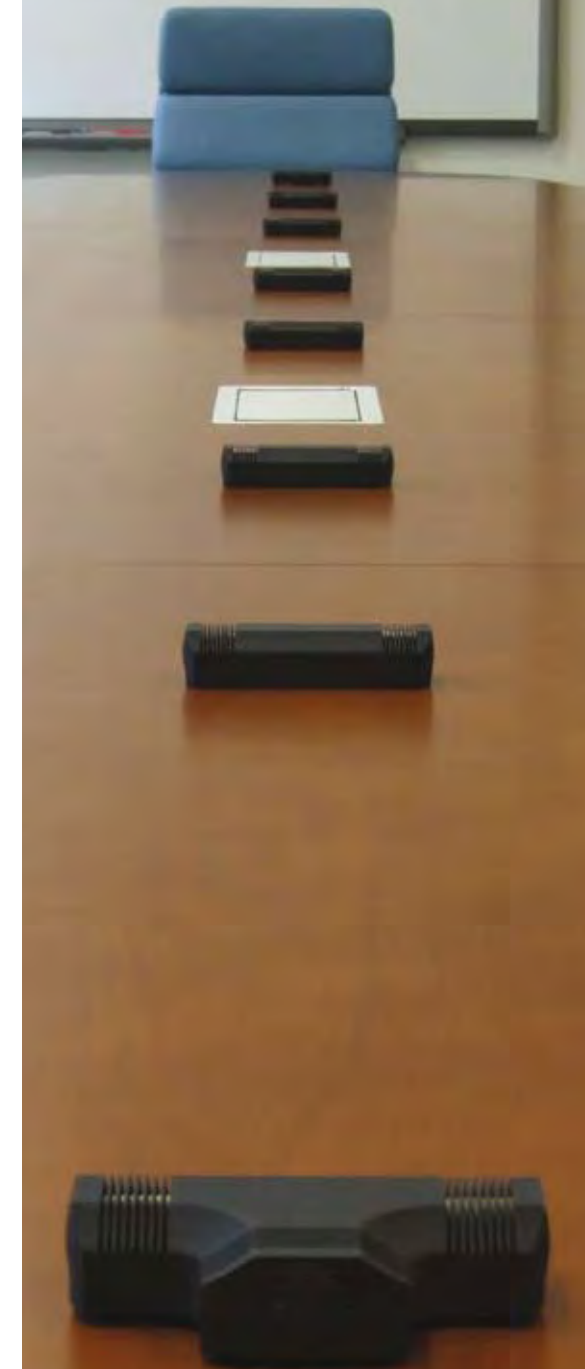
 CS 3-RF - triple element boundary microphone



 CS 4-RF - quadruple element boundary microphone



 CS 1-RF - single element boundary microphone



◦ C 002E-RF Low Profile Boundary Microphone

Omni-directional, low profile, boundary layer condenser professional microphone. Ideal for applications such as conference tables, floors, pianos, etc.

Features:

- Omni-directional polar pattern
- Wide range, smooth response
- Very low profile
- Stone grey Nextel finish



Models:

 **C 002E-RF**

Model:	C 002E-RF
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	64dB(A)
Termination	Male 3 pin XLR

◦ C 006E Low Profile Boundary Microphone

Half-cardioid small, light, sensitive professional boundary layer condenser microphone for use in a wide range of AV applications, including conference, lectern and theatre.

Features:

- Half-cardioid polar pattern
- Fully balanced
- Low profile
- Stone grey Nextel finish



Models:

C 006E

Model:	C 006E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-48dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB Switchable Pad	✓
S/N Ratio	64dB(A)
Termination	Male 3 pin XLR

◦ C 008E Tabletop Boundary Microphones


Cardioid boundary layer condenser microphone, particularly suitable for speech purposes in a wide range of pro and live sound applications including conference, lectern and theatre.

Features:

- Cardioid polar pattern
- Fully balanced
- High quality engineering in solid brass
- Concealed cable and fixing screw mounting
- Stone grey Nextel finish



Models:

C 008E
 **C 008E-RF**

Model:	C 008E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	64dB(A)
Termination	Male XLR

◦ C 009E-RF Large Surface Boundary Microphone

Omni-directional boundary layer condenser microphone for easy use on large surfaces in a wide range of professional sound applications. Ideal for mounting on walls, floors, pianos, etc.

Features:

- Omni-directional polar pattern
- Wide range, smooth response
- Very low profile
- Stone grey Nextel finish



Models:

 **C 009E-RF**

Model:	C 009E-RF
Frequency Response	30Hz ~ 20KHz
Sensitivity	-42.5dB ±2dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	68dB(A)
Termination	Male 3 pin XLR





◦ C 003E / C 004E Through-table Boundary Microphones

Omni-directional (C 003E) or Cardioid (C 004E) boundary layer condenser microphones designed for a wide range of installed audio, conferencing or security applications.

Features:

- Engineered in high quality brass
- Balanced output
- Simple through-table shock mounting
- Finished in satin black or matt white

Models:

- C 003E** Black
- C 003EW** White
-  **C 003E-RF** Black
-  **C 003EW-RF** White
- C 004E** Black
- C 004EW** White
-  **C 004E-RF** Black
-  **C 004EW-RF** White



- Available in white





◦ C 011E-RF / C 012E-RF Through-table Boundary Microphones

These through-table omni (C 011E-RF) and cardioid (C 012E-RF) microphones were created for applications demanding sonic quality, but also requiring an extremely robust housing within an extreme environment.

Features:

- RF-immune
- Balanced output
- Simple through-table shock mounting
- Finished in satin black or matt white

Models:

-  **C 011E-RF** Black
-  **C 011EN-RF** Nickel
-  **C 012E-RF** Black
-  **C 012EN-RF** Nickel



◦ C 015E-RF / C 016E-RF Tabletop Boundary Microphones

New style omni-directional (C 015E-RF) and cardioid (C 016E-RF) boundary layer condenser microphones featuring programmable touch pad switching for professional AV applications such as meetings, conference and lectern installations.

Optimised for speech clarity, these RF-immunity boundary microphones feature built-in Phantom Power module and are finished in satin black.

Models:

-  **C 015E-RF** Omni-directional
-  **C 016E-RF** Cardioid



Model:	C 003E-RF	C 004E-RF
Polar Pattern	Omni-directional	Cardioid
Frequency Response	20Hz ~ 20KHz	100Hz ~ 16KHz
Sensitivity	-42dB ±3dB at 1KHz (0dB=1v/Pa)	-47dB
Impedance	200Ω	200Ω
Power Requirements	9 ~ 48v Phantom Power	
S/N Ratio	58dB(A)	60dB(A)
Termination	Male 3 pin XLR	Male 3 pin XLR

Model:	C 011E-RF	C 012E-RF
Polar Pattern	Omni-directional	Cardioid
Frequency Response	50Hz ~ 20KHz	50Hz ~ 18KHz
Sensitivity	-42dB ±3dB at 1KHz (0dB=1v/Pa)	-47dB
Impedance	200Ω	200Ω
S/N Ratio	58dB(A)	60dB(A)
Termination	Male 3 pin XLR	Male 3 pin XLR

Model:	C 015E-RF	C 016E-RF
Type	Condenser (Back Electret)	
Frequency Response	50Hz ~ 20KHz	50Hz ~ 18KHz
Sensitivity	-42dB ±3dB @ 1KHz (0dB = 1vPa)	-47dB ±3dB @ 1KHz (0dB = 1vPa)
Impedance	200Ω	200Ω
Switching	Programmable for PTT PTM & Latching	
Power Requirements	48v Phantom Power	
S/N Ratio	58dB(A)	60dB(A)
Termination	Male 5 pin XLR with remote switch ability Optional Male 3 pin XLR variant	

◦ C 007E Series 'Button' Boundary Microphones

Omni-directional, boundary layer condenser microphones suitable for surveillance and recording in sensitive areas such as banks, airports, railway stations, law courts, conference and convention centres. Very low profile and easily mounted with M12 x 1 nut and washer supplied.

Features:

- Non-reflective Delrin with non-conductive body (Non-RF only)
- 3 colour options (Black, White & Nickel)
- RF & Non-RF versions available
- Water resistant option (Non-RF only)
- Bi-colour LED Red or Green (RF Version only)

Models:

- **C 007**
- **C 007E**
- **C 007E-RF**
- **C 007E-LED-RF**



- RF versions available with bi-colour LED



Model:	C 007	C 007E	C 007E-RF
Frequency Response	50Hz ~ 20KHz	50Hz ~ 20KHz	50Hz ~ 20KHz
Sensitivity	-42.5dB ±2dB at 1KHz (0dB=1v/Pa)		
Impedance	1KΩ	200Ω	200Ω
Power Requirements	2 ~ 10v max through series resistor	9 ~ 48v Phantom Power	9 ~ 48v Phantom Power (12v DC for LED version)
Switchable Bass Filter & -10dB Switchable Pad	-	✓	-
S/N Ratio	40dB(A)	40dB(A)	58dB(A)
Termination	Open-ended	Male 3 pin XLR	Male 3 pin XLR with PPA-RF

◦ CH 32 (Litetouch) Dual Colour Halo Ring & Touch Pad Switch

Comprising a dual-colour Halo ring and switch combination that can be used with all Clockaudio through-table products, the Litetouch allows users to easily identify the status of microphones, as well as mute the units for privacy.

With no moving parts, the switch is touch-sensitive, so there are no clicking noises when switching from one status to another. Both the switch and the Halo have been designed to operate remotely with all popular brands of electronic system control, so an integrator has complete freedom to assign function and LED colour.

Importantly, the Litetouch can be easily retrofitted to any Clockaudio through-table microphone product.

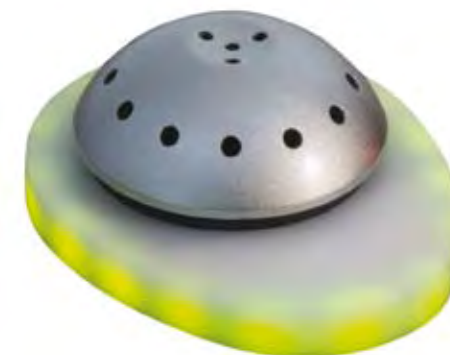
Features:

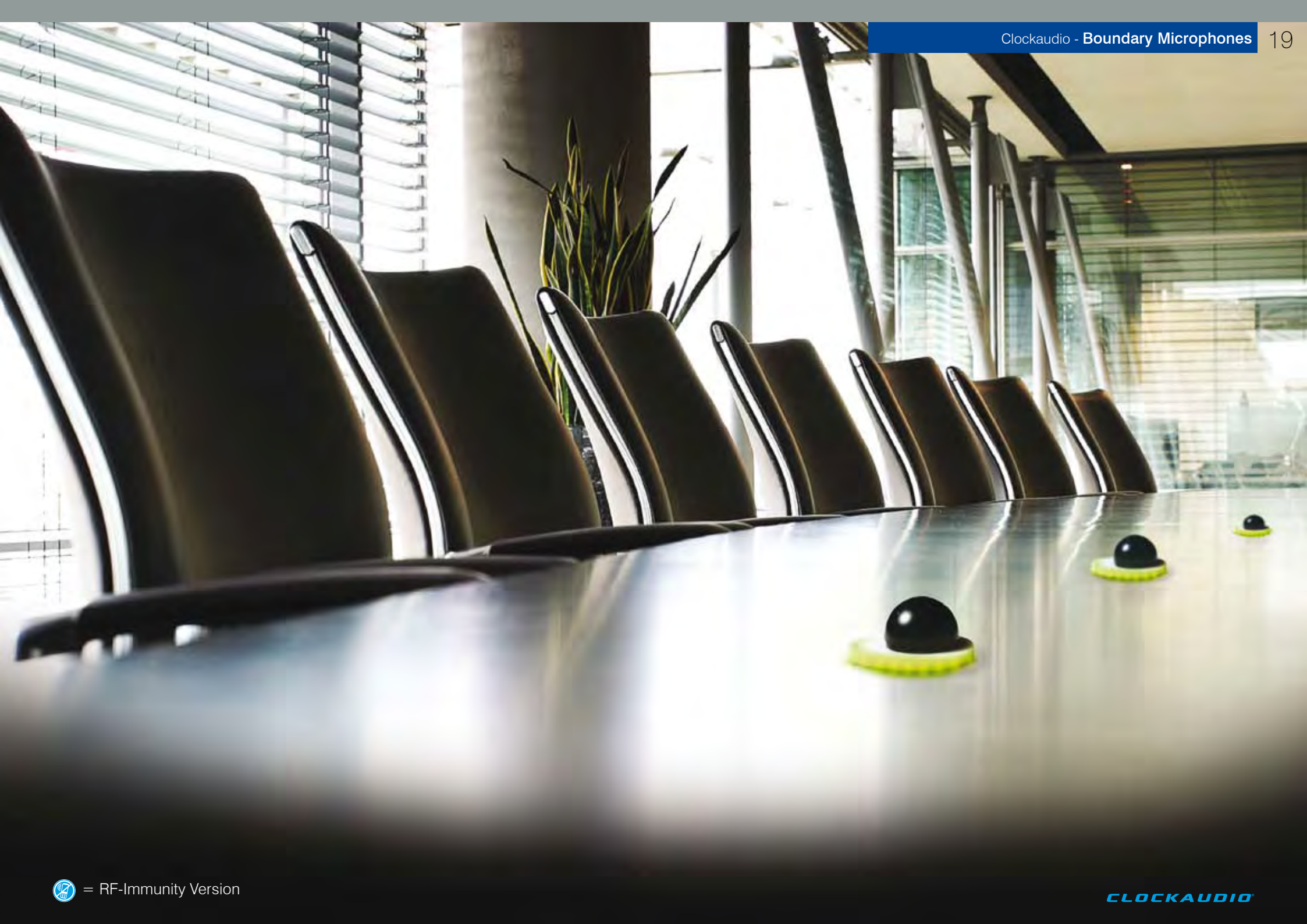
- Designed for remote switching
- Housing 32 LEDs to give all round illumination
- 12 or 24v DC operation
- Current consumption 40mA
- Retrofittable to all Clockaudio through-table microphones
- Fitted with 5 way socket terminal block supplied with fixing screws

Models:

- **CH 32**

Model:	CH 32
Type	Dual Colour Halo Ring & Touch Sensitive Switch
LED Colour	Red and Green
Operating Voltage	12 or 24v DC (Regulated) For 24v DC operation a 300Ω 1 Watt resistor must be put in series with both the green and red LED wires.
Current Consumption	40mA
Termination	5 way socket terminal block (with fixing screws)







◦ CAP 002 Line Level Pre-Amplifier

The CAP 002 is a line level pre-amplifier fitted in a robust plastic case.

Features:

- Can be powered with a simple 12 ~ 24v DC adaptor or 24v AC from a camera
- Ideal for situations where the microphone needs to be sent directly to a camera or DVR
- Also very useful when microphone level input is not available
- Uses barrier strips for quick termination



Models:

CAP 002

◦ PPA


9 ~ 48v Phantom Power Adaptor for electret condenser microphones.

Features:

- Switchable bass cut filter and switchable -10dB pad (Non-RF version only)
- Robust all-metal construction finished in satin black
- Terminated in 3 pin male XLR and fitted with 3 pin Male Tini Q XLR connector
- Female Tini Q miniature cord plug also supplied



Models:

- PPA
-  PPA-RF

◦ PPM

Beltpack 1.5v battery supply/9 ~ 48v Phantom Power Adaptor for electret condenser microphones with switched flat response or low roll-off.

Features:

- Input termination Tini Q Male 3 pin socket
- Output termination XLR Male 3 pin socket
- Finished in satin black



Models:

- PPM

◦ PP 2

2 Channel 48v DC Phantom Power Supply with XLR microphone inputs/outputs.

Features:

- 20Hz ~ 20KHz bandwidth and fully balanced
- 100/115/220/240v adjustable AC voltage selector
- LED power ON/OFF indicator



Models:

- PP2


◦ CPPW 01

Phantom Power Adaptor for permanent installation.

Features:

- Fitted in a robust case, the CPPW 01 is practical for quick termination and will accept 9 ~ 48v DC Phantom Power



-  • CPPW 01-RF Phantom Power Adaptor

Models:

- CPPW 01
-  CPPW 01-RF
- Plastic case
- Aluminium case

MR 66 Automatic Microphone Mixer

The MR 66 microprocessor-controlled automatic microphone mixer has been carefully designed to give outstanding performance and maximum features with simplicity of set up and use.

Six input channels, fully adjustable between mic and line levels, can be set to the left, right or both output channels. Active input channels are automatically detected. Each input channel can be set to a multi-level priority system. This allows 'one at a time operation', 'all channels active', or combinations with chairman and officer priorities.

When no-one is talking, a constant ambient sound can be maintained through the system by setting the last microphone selected to automatically remain in.

Mixers may be daisy-chained together to make a large multi-source system with priority and NOMA information extending throughout.

Features:

- Simple daisy-chain set up for multiple microphones
- Easy set up with LCD display of all functions and settings - no need to open case
- Fast, silent automatic microphone selection
- 6 channel mic/line inputs on XLR connectors
- Recorder outputs for each input channel
- 2 Channel mic/line outputs on XLR connectors and RCA phono
- Output level LED meter
- Channel LEDs indicate active or locked out channels
- Multi-level channel priority system
- Easy use with mono or stereo inputs
- Stereo or dual mono outputs
- Adjustable limiters on each input prevent channel overload
- Adjustable 'off' attenuation of each input channel
- 12v Phantom Power individually selectable for each channel
- Select NOMA operation on/off
- Remote VCA control
- Monitor headphone output with adjustable level
- External TTL control and monitoring of channel selection
- 1U rack-mounting
- Security mode



Model:		MR 66
Input Impedance		10 Ω
Output Impedance	Balanced: Unbalanced: Pre-Amp Out:	50 Ω 600 Ω 600 Ω
Max Input Level	Gain > 25dB: Gain < 25dB:	-24dBv +16dBv
Max Output Level		+16dBv
Nominal Output Level at 0dBv on Meter	Pre-Amp Out: Balanced: Unbalanced:	-10dBv -60dBv ~ +16dBv (Level set on front panel) -16dB of Level set on front panel
Output Gain Control		0 ~ -40dB
Maximum Gain		90dB
Frequency Response		10Hz ~ 22KHz
THD+N		-70dB
Max NOMA Attenuation		20dB
Phantom Power		+12v
Operating Temperature		0 $^{\circ}$ ~ 40 $^{\circ}$ C

MR 88 Digital Automatic Microphone Mixer

The MR 88 Digital Automatic Microphone Mixer incorporates advanced DSP technology. It has been carefully designed to give outstanding performance and flexibility whilst maintaining simplicity of set-up and use.

Eight input channels, fully adjustable for microphone and line level, can be output from either or both of the two channels. The MR88 incorporates advanced DSP technology and has been carefully designed to give outstanding performance and flexibility whilst maintaining simplicity of set up and use. It provides eight input channels, fully adjustable for microphone or line levels, and two output channels. Flexible routing gives easy use of mono or stereo sources. Each input channel can be assigned to a four-level priority system.

The MR-88 provides full set-up and control of the mixer via a user-friendly LCD interface on the front panel, allowing the mixer settings to be selected and adjusted without the need to remove the case covers. Mixers may be linked together to make a large multi-source system with priority and NOMA information extending throughout. All settings are retained, even when the mixer is disconnected from the power supply.

Features:

- Easy set up with LCD display of all functions and settings from front panel and by PC through RS232 socket
- Fast, silent automatic microphone selection
- 8 Channel mic/line inputs on XLR connectors
- Record outputs for each input channel
- 2 Channel mic/line outputs on XLR connectors
- Output level LED meter
- 2 Band equalisation on each input channel
- Compression
- Multi-level channel priority system
- Easy use with mono or stereo inputs
- Dual mono or stereo outputs
- Security mode
- Adjustable limiters on each input prevent channel overloads
- Adjustable 'off' attenuation of each input channel
- Channel LEDs indicate active or locked out channels
- Select NOMA operation on/off
- Simple daisy-chain set up for multiple microphone operations
- 48v Phantom Power individually selectable for each channel
- Remote VCA control and RS232
- External TTL control and monitoring of channel selection
- 1U rack-mounting



Model:		MR 88
Input Impedance		2.4K Ω differential
Output Impedance	Balanced: Pre-Amp Out:	50 Ω 560 Ω
Max Input Level	Mic Level: Line Level:	-23dBv +16dBv
Max Output Level		+19dBv
Nominal Output Level at 0dBv on Meter	Pre-Amp Out: Balanced:	-10dBv -60dBv ~ +4dBv
Frequency Response		20Hz ~ 20KHz
THD + N		-70dB
Max Noma Attenuation		20dB
Phantom Power		+48v
Power Supply		15v DC
Operating Temperature		0° ~ 40°C

◦ D 500 Cardioid Dynamic Handheld Microphone

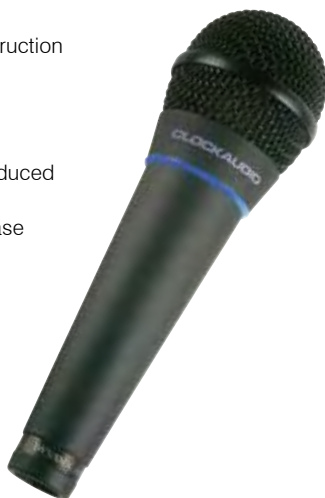
Versatile, professional, dynamic cardioid handheld microphone designed for a wide variety of vocal, speech and instrument applications. It has a wide smooth response, with neodymium magnet for high sensitivity and balanced output. The 500S model has a silent magnetic reed ON/OFF switch.

Features:

- Rugged die-cast metal construction
- Cardioid polar pattern
- Wide, smooth response
- Balanced output
- Black, soft-touch finish for reduced handling noise
- Supplied in a presentation case

Models:

- D 500**
- D 500S** With ON/OFF switch



- Includes SA 5 clip

Model:	D 500
Frequency Response	50Hz ~ 16KHz
Sensitivity	-55dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	500Ω balanced
Termination	Male 3 pin XLR

◦ C 650E Cardioid Condenser Handheld Microphone

Professional condenser handheld microphone designed for vocal and speech applications.

Features:

- Rugged metal construction
- Wide response
- Shock mount suspension
- Balanced output
- Nextel finish

Models:

- C 650E**



- Includes SA 5 clip

Model:	C 650E
Frequency Response	50Hz ~ 20KHz
Sensitivity	-48dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB switchable Pad	✓
S/N Ratio	68dB(A)
Termination	Male 3 pin XLR

◦ C 600 Slimline Condenser Microphone

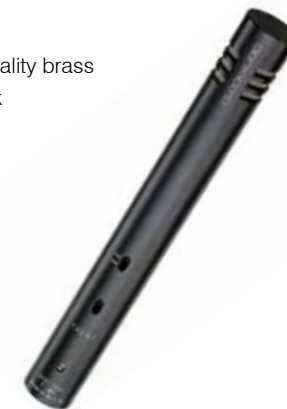
Professional slimline hand held cardioid condenser microphone designed for a wide range of vocal and speech applications. Also suitable for many musical instrument applications.

Features:

- Cardioid polar pattern
- Balanced output
- Engineered in high quality brass
- Finished in satin black

Models:

- C 600**



- Includes SA 3 clip

Model:	C 600
Frequency Response	50Hz ~ 20KHz
Sensitivity	-47dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB Switchable Pad	✓
S/N Ratio	64dB(A)
Termination	Male 3 pin XLR

◦ C 850E Shotgun Supercardioid Microphone

Supercardioid shotgun microphone for use in broadcast, film/video recording and theatre sound reinforcement. Wide, smooth response and fully balanced output.

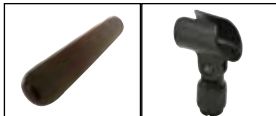
Features:

- Superior grade components
- Selectable bass roll-off and 10dB pad
- XLR termination
- Finished in satin black



Models:

C 850E



- Includes W 85 windshield and SA 8 clip

Model:	C 850E
Frequency Response	50Hz ~ 20KHz
Sensitivity	-48dB ±3dB @ 1KHz (0db=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB switchable Pad	✓
S/N Ratio	68dB(A)
Termination	Male 3 pin XLR

◦ D 525E Dynamic Supercardioid ENG Microphone

Designed for electronic news gathering and video production.

Features:

- Die-cast housing and steel grille screen
- Long shaft for easy handling
- Neodymium alloy magnet
- Optional soft protective case
- Finished in soft-touch satin black



Models:

D 525E



- Includes W 5 windshield and SA 8 clip

Model:	D 525E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-54dBv/(1.6mv/Pa)
Impedance	300Ω
Termination	Male 3 pin XLR

◦ D 550E Dynamic Omni-directional ENG Microphone

Designed for reporting, interviewing and news gathering.

Features:

- High sensitivity Neodymium alloy magnet
- Patented shock suspension
- Long shaft for easy handling
- Die-cast housing and steel grille screen
- Finished in soft-touch satin black



Models:

D 550E



- Includes W 5 windshield and SA 8 clip

Model:	D 550E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-54dBv/(1.6mv/Pa)
Impedance	300Ω
Termination	Male 3 pin XLR



◦SM 110

Heavy, stable, shock-absorbing table microphone stand with SA3 microphone holder.

Features:

- Steel construction finished in satin black with neoprene shock mount for the microphone holder
- Overall height incl. microphone holder: 85mm
- Base diameter: 110mm
- Weight: 0.77kg



◦SA 3

Small swivel microphone holder and stand adaptor with 5/8" ~ 3/8" female thread.

Features:

- Finished in black plastic to avoid damage and microphone scratching
- Suitable for C 600 handheld microphone and all gooseneck microphones mounted on standard PPA (Phantom Power Adaptor)



◦SA 5

Swivel microphone holder and stand adaptor suitable for D 500 series handheld microphones.

Features:

- With 5/8" ~ 3/8" female thread and black rubber finish resistant to damage and microphone scratching



◦S 210 Boom Stand

Microphone floor stand and boom arm combination. Folding base for ease of transport. Long legs for added stability.

Models:

S 210

Model:	S 210
Boom Arm Length	840mm
Finished	Black
Height	900 ~ 1605mm
Weight	3.2kg



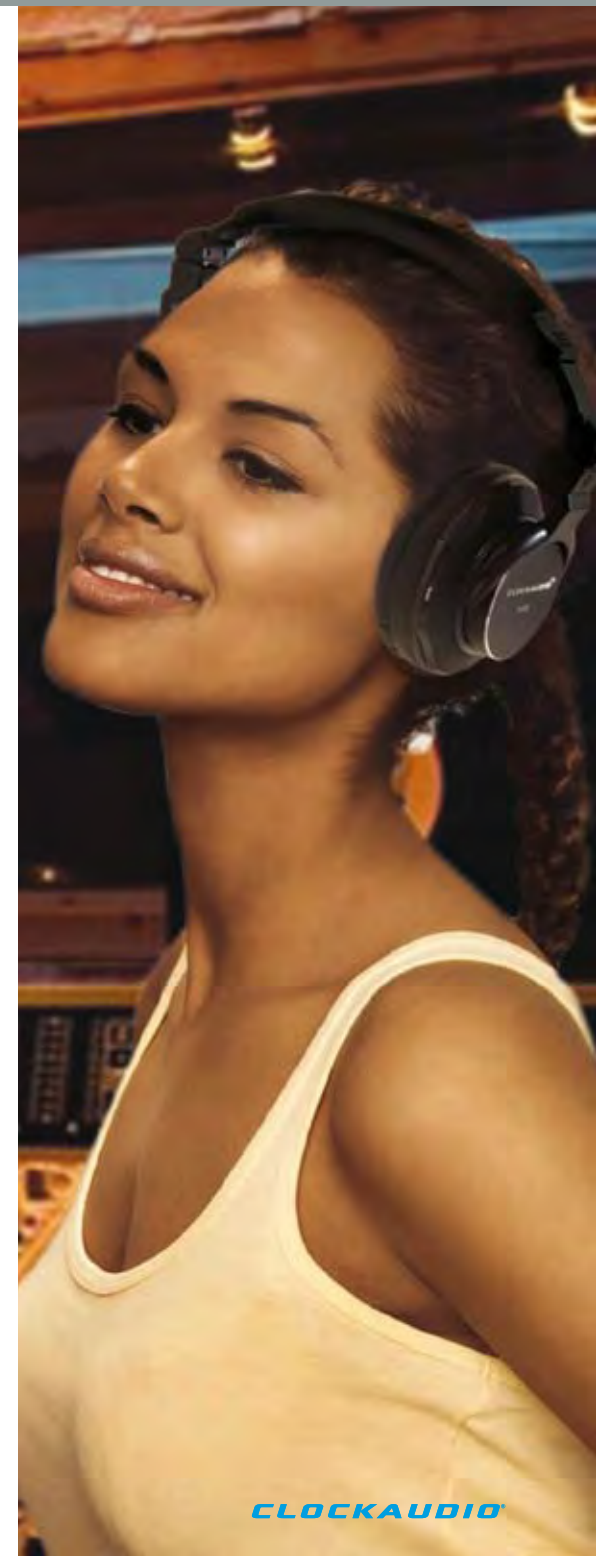
◦F 237 Aluminium Fishpole

Lightweight, adjustable 3-piece aluminium tube used for remote positioning of microphones for recording and broadcasting. Rough textured hand grips and secure locking rings. Protective carrying case included.

Models:

F 237

Model:	F 237
Finished	Black
Height	950 ~ 3220mm
Weight	800g



◦ H 500 Monitor Headphones

Studio quality, cost-effective monitor headphones, featuring removable jack-to-mini jack cable and soft case cover.

Features:

- Wide frequency response
- Closed diffused studio headphones
- Enhanced bass response
- High SPL capacity
- Excellent isolation from ambient noise

Models:

H 500



◦ AH 3000 Active Protection Stereo Headphones

Designed as ear defenders for protection against hazardous noises with the ability to set essential listening levels to each ear to hear normally. Suitable for use in a wide range of noisy environments including industrial and building locations, transport termini and sports and leisure locations.

Features:

- Defender system maintains preset listening level
- Wide bandwidth for natural sound to the ear
- Individual listening level adjustment for each ear
- Batteries operate for up to 50 hours from full charge
- Finished in cobalt blue Nextel with black trim

Models:

AH 3000



◦ HS 1000 Series Communications Headset with Dynamic or Condenser Microphone

The HS1000 is a ruggedly built headset with a choice of dynamic or condenser microphone, designed for a wide range of applications such as theatres, concert halls and studios. The earpieces effectively reduce high surrounding noise and equally contain the received sounds when working in quiet environments.

Features:

- Wide band headphones
- Robust boom assembly
- Comfortable padded ear cups giving high ambient noise attenuation
- Finished in cobalt blue Nextel with black trim

Models:

- H 1000** Ear Defender Headphones
- HS 1000D** Ear Defender talk-back with Dynamic Microphone
- HS 1000E** Ear Defender talk-back with Condenser Microphone



- Includes W 2 windshield



Model:	H 500
Type	Dynamic closed-back circumaural
Sensitivity	96dB SPL \pm 3dB @1mw
Frequency	15Hz ~ 22KHz
Max Input Power	500mw
Impedance	24 Ω
TDH	<0.3%
Cable	Plug-in single cable approx 3m
Connector	Gold-plated mini stereo jack
Stereo Adaptor	Gold-plated mini stereo jack to 1/4" screw-on-adaptor
Weight	0.37kg

Model:	AH 3000
Headphones	Micro dynamic
Design	Circumaural
Frequency Response	20Hz ~ 18KHz
Sensitivity	104dB \pm 3dB @1KHz
Ear Cup Attenuation	29dB
Microphone	Condenser (back electret)
Powering	3.6v 70mAH Ni-MH rechargeable batteries
Weight	0.42kg

Model:	HS 1000D	HS 1000E
Microphone	Dynamic	Condenser (back electret)
Polar Pattern	Noise cancelling	Noise cancelling
Frequency Range	150Hz ~ 10KHz	100Hz ~ 10KHz
Impedance	300 Ω	1.6K Ω
Powering	1.5 ~ 9v DC through series resistor	
Cable Length	2m	2m
Weight	0.5kg	0.5kg

◦ CMH 2000 Micro Lightweight Headworn Boom Microphones

Extremely lightweight and low profile professional microphone for use in theatres, presentations, broadcast studios and places of worship. Shaped and lightly sprung to fit any head contour and remain in place even during high activity. Flexible boom arm for optimum positioning of microphone.

Features:

- Omni-directional back electret condenser microphone
- Perspiration drip barrier to protect microphone
- Wide band, smooth response
- Black or beige, easy-clean finish

Models:

- CMH 2000** Black
- CMH 2000B** Beige



Model:	CMH 2000
Microphone	Condenser (back electret)
Polar Pattern	Omni-directional
Frequency Response	30Hz ~ 18KHz
Sensitivity	-33dB ± 3dB @ 1KHz (0dB=1v/Pa)
Impedance	4.4KΩ
Power Requirements	1.5 ~ 9v (Standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

◦ HW 1500 Rugged Lightweight Headworn Boom Microphone

Rugged and lightweight for use in presentations, commentaries, broadcast reporting and by instructors - waterproof microphone makes it particularly suitable for aerobic and fitness instructors. Shaped, lightly sprung and with headband to fit all head contours comfortably and remain in place even with vigorous activity.

Features:

- Plastic injected headband, gooseneck and capsule head for protection against corrosion
- Flexible boom arm for optimum positioning of microphone
- Waterproof bi-directional close talking back electret condenser microphone with smooth low feedback response

Models:

- HW 1500**



- Includes W 15 windshield



Model:	HW 1500
Microphone	Condenser (back electret)
Polar Pattern	Bi-directional close talking with W15 Windshield
Frequency Response	300Hz ~ 5KHz
Sensitivity	-44dB ± 3dB @ 1KHz (0dB=1v/Pa)
Impedance	1KΩ
Power Requirements	1.3 ~ 12v (Standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

◦ HW 1200 Lightweight Headworn Boom Microphone

A lightweight cardioid microphone for use in presentations, guided tour systems and telesales applications.

Models:

- HW 1200**



- Includes W 12 windshield



Model:	HW 1200
Microphone	Condenser (back electret)
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-50dB @ 1KHz (0dB=1v/Pa)
Impedance	680Ω
Power Requirements	1.5 ~ 9v DC (standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

◦ CTH 100 Throat Microphone

This throat microphone has been engineered to provide superb speech intelligibility even in high background noise environments.

Special attention has been given to ensure a comfortable wear over long durations with ergonomic strap and transducer housing design.

Features:

- Available with a variety of IP67 terminations and PTT switches
- Water immersion resistant
- Rugged and durable



Models:

CTH 100

◦ CL 4 Lavalier Omni-directional Microphone

Ultra miniature, omni-directional lavalier condenser microphone suitable for hands-free applications in pro-audio. Available in black or beige, complete with windshield and tie clip.

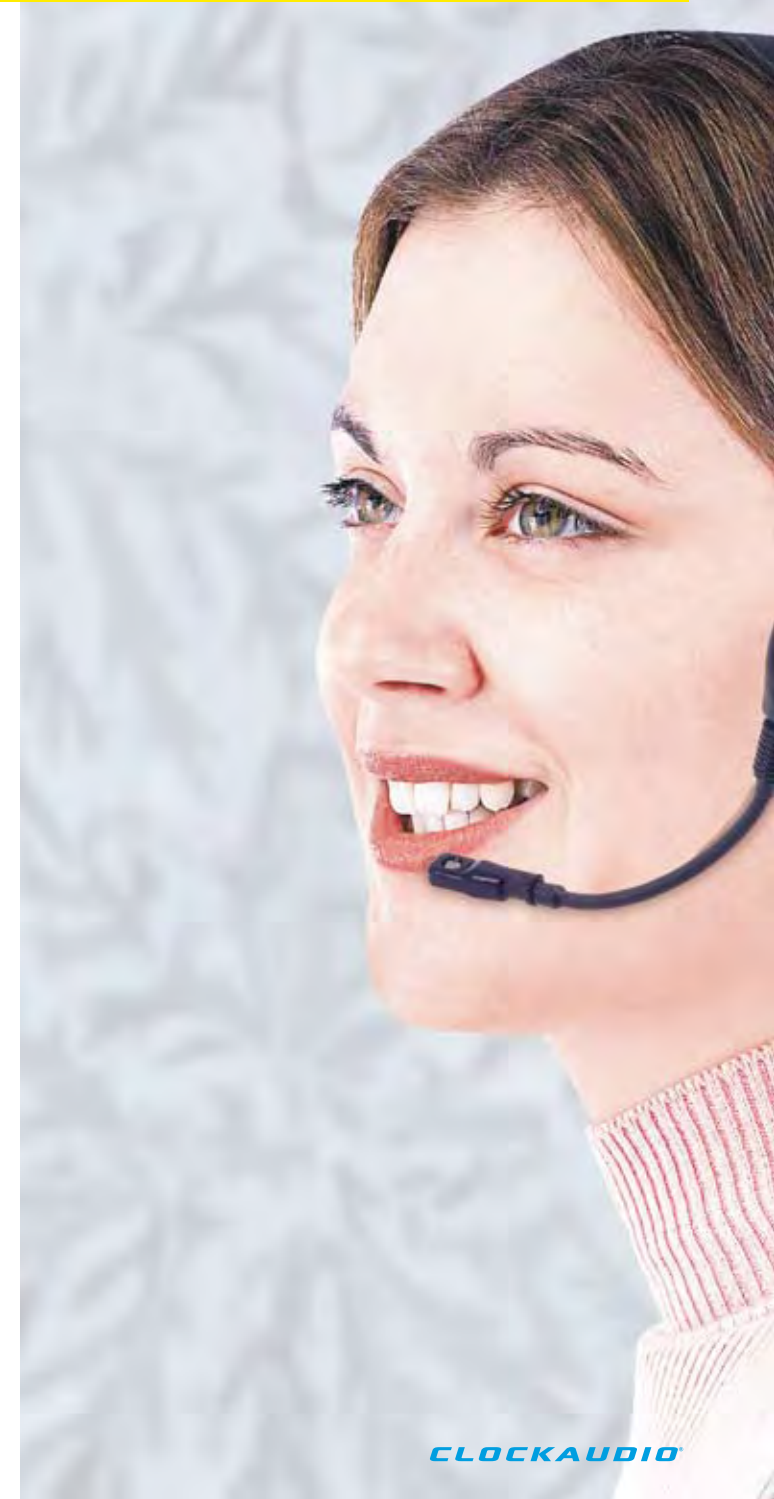


Models:

- CL 4** Black
- CL 4B** Beige

Model:	CTH 100
Generating Element	Electret Condenser
Frequency Response	350Hz ~ 8KHz
Sensitivity	Equivalent output to standard microphones
Current Drain	0.54mA at 2.5v through 2.2kΩ
Bias Voltage	2.5 ~ 6v DC
Output Impedance	900Ω
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-40°C ~ +70°C
Weight	0.05kg

Model:	CL 4
Frequency Response	50Hz ~ 18KHz
Sensitivity	-44dB @ 1KHz (0dB=1v/Pa)
Impedance	1KΩ
Power Requirements	1.5 ~ 9v (standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector



◦ CW9000 Series UHF Multi-channel Radio Microphone System

Versatile, flexible and easy to use, multi-channel system with two receiver, full diversity reception.

UHF operation for resistance to interference (bands within the range 630 ~ 960MHz according to local regulation). 192 PLL pre-selectable channels per band. Compact half rack size, full diversity receiver with full controls, comprehensive LED display and balanced/unbalanced outputs.



- CW 9000IT Beltpack Transmitter
- CL 6 Lavalier Cardioid Microphone

- CW 9000T Handheld Radio Microphone

- CW 9004T
- CW 9005T
- CW 9006T

Available with a choice of beltpack transmitter with lavalier microphone, handheld transmitter microphone or our innovative new wireless desktop base mounts for use with Clockaudio's full range of gooseneck microphones.

Each transmitter option features LCD display for frequency and battery status, easy-to-use controls for ON/OFF, frequency selection and AF levels. A full range of included and optional accessories are also available to complement the CW 9000 Series.

Model:	CW 9000R
System FM Carrier	UHF
Frequency Range	630MHz ~ 960MHz (bands according to regulation)
Channel Frequencies	192 PLL selectable channels per band
Frequency Stability	± 0.005%
S/N Ratio	> 100dB
Audio Output Level	-12dB
AF Output Impedance	600Ω
Squelch	'Pilot Tone' and 'Noise Mute'
Power	External 12v DC; 500mA

Model:	CW 9000T
Microphone	Dynamic Cardioid
LCD Display Information	Frequency, AF level and battery status
Power	2 x AA batteries giving more than 10 hours use

Model:	CW 9000IT
System FM Carrier	UHF for reduced interference
Frequency Range	630MHz ~ 960MHz (bands according to regulation)
Channel Frequencies	192 PLL selectable channels per band
RF Output	10mW
Frequency Stability	± 0.005%
Frequency Deviation	± 48KHz
Frequency Response	50Hz ~ 15KHz
Dynamic Range	> +110dB
Controls	Power ON/OFF, Frequency and AF level set

Model:	CL 6
Microphone	Condenser (black electret)
Polar Pattern	Cardioid
Frequency Response	100Hz ~ 12KHz
Sensitivity	-50dB @ 1KHz (0dB = 1v/Pa)
Impedance	2.2KΩ
Termination	4 pin Tini Q connector

RF, AF and control information as for CW9000IT

UHF Desk-based Wireless Transmitters

Microphones for use with CW 9004T Unit (See page 4 for full specifications):



- C 3100** 100mm
- C 310-R** 100mm rigid
- C 312-SR** 200mm semi-rigid
- C 313-SR** 300mm semi-rigid
- C 314-SR** 400mm semi-rigid



- **CW 9004T** UHF Desk Wireless Microphone Transmitter
- Tini Q XLR
- **CW 9005T** UHF Desk Wireless Microphone Transmitter
- Built-in Microphone



- **CW 9006T** UHF Desk Wireless Microphone Transmitter
- XLR

Model:	CW 9004T	CW 9005T	CW 9006T
Frequency Range	630 ~ 960MHz (According to local regulation)		
Channel Frequencies	192 PLL selectable channels per frequency band		
Polar Pattern	-	Omni-directional	-
Audio Bandwidth	-	50Hz ~ 18KHz	-
RF Output	10mW		
Frequency Deviation	±48KHz		
S/N Ratio	> 102dB		
Audio Frequency Response	50Hz ~ 15KHz		
Dynamic Range	> +110dB		
LCD Information	Frequency and battery status		
Switching	Programmable touch switch and LED indicator		
Power Supply	2 x AA batteries giving more than 9 hours use		
Output	-	-	24v Phantom Power
Connections	3 Pin Tini Q Mini XLR	-	3 Pin XLR
Dimensions & Weight	125(L) x 115(W) x 40(H) mm / 0.4kg		



- **CMH 2000** Micro Lightweight Headworn Boom Mic



- **HW 1500** Rugged Lightweight Headworn Boom Mic



- **HW 1200** Lightweight Headworn Boom Mic

See page 28 for full details of headworn microphones.

CU 2 Intelligent Battery Charger

- Processor controlled
- Built-in active monitoring circuitry
- Pulse charging system
- Temperature sensor
- Two dedicated compartments for charging two CW 9004T, CW 9005T or CW 9006T Transmitters
- Charging time: 6 hours
- Power Supply: Input 90 ~ 260v AC
Output 12v DC 1.25A



Wireless Accessories

- **S 210X** (shown here with C 816E microphone).

The S 210-X has a fixed height, folding, long legged stand with a die-cast base for stability and ease of transport. Fitted with a 3 pin XLR connector at the base and the top. Overall height 1023mm. (For use with CW 9006T Transmitter)



- **AA 9000** Antenna Distribution Amplifier



Model:	AA 9000
Carrier Frequency	470 ~ 870MHz
Antenna Inputs	2 (BNC)
Antenna Outputs	4 x pairs (BNC)
Output Connector Isolation	24dB
Nominal Cascade Gain	3dB
Inline Antenna Power	12v DC 120mA
Power Supply	4 x 12v DC
Mains Input Voltage	90 ~ 264 AC 50/60 Hz

- **CW 9000C** Interchangeable Microphone Head



Model:	CW 9000T-C
Type	Condenser (Back Electret)
Polar Diagram	Cardioid
Frequency Response	60Hz ~ 18KHz
Impedance	400Ω
Sensitivity	-50dB (0dB=1v/Pa)

- **AB 9000** Antenna Booster



Model:	AB 9000
Carrier Frequency	470 ~ 870MHz
Antenna Gain	1.8dBi
Booster Gain	0dB +2/-1
Antenna Coverage	360°
Operating Voltage	12 ~ 18v DC
Inline Antenna Power	12v DC 120mA

Guided Tour System

A licence-free system of lightweight, 16 channel personal portable units developed for commentary or narration on guided tours, for individuals or for groups in situations such as museums, zoos, factories, garden tours or outside events. Also suitable for language tuition, talk-back and multi-language translation. UHF for reduced interference. 16 PLL selectable channels for easy and reliable operation. Built-in microphone or loudspeaker for hand held use and external microphone or earpiece for use when clipped to a belt or pocket. Open space range >100m.

Features:

- UHF PLL Licence-free
- 16 Selectable Channels
- Single or multi receiver capability
- Lightweight portable units with audio level adjustment
- Receiver with built-in loudspeaker for handheld use, and external ear piece for use when clipped to a belt or pocket
- Transmitter with built-in condenser microphone for hand held use, and external microphone for use when clipped to a belt or pocket
- Powered by two AA Ni-MH rechargeable batteries giving 10-12 hours use on full charge
- Intelligent chargers for 2, 10, 20 units
- Accessories available - lanyard and disposable ear pads



• GT 300R - Receiver



• GT 300T - Belt Pack Transmitter



• DC 320 - Charging Flight Case (Transmitters sold separately)

Model:	DC 320 Charging Flight Case
Capacity	20 (receiver or transmitter belt style only)
Indicator LED	Red charging, green fully charged
Charging Current	120mA
Charging Time	NI-MH (1300mAh) 10 ~ 12 hours
Charging Control	PWM (timer power OFF detector)

DC 302 2 Unit Desktop Charger (for hand held or belt style transmitter / receiver)
DC 310 10 Unit Charger in fitted flight case



Model:	GT 300R	GT 300T
Includes	Ear piece	Omni-directional Condenser Microphone
System FM Carrier	UHF PLL Synthesized	UHF PLL Synthesized
Frequency Range	UHF 740 ~ 865MHz (according to local regulations)	UHF 740 ~ 865MHz (according to local regulations)
Channel Frequencies	16 Pre-programmed switchable	16 Pre-programmed switchable
Switchable Bandwidth	12MHz	12MHz
Frequency Stability	±0.005%	±0.005%
Maximum Deviation	±50KHz with level limiter	±50KHz with level limiter
Dynamic Range	<80dB	<80dB
Frequency Response	150Hz ~ 10KHz	-
RF Output	-	10mW
Powering	2 x AA Ni-MH batteries averaging 10 hours use on full charge	2 x AA Ni-MH batteries averaging 10 hours use on full charge

• DC 302 - 2 unit desktop charger

Model:	GT 402T	GT 502T
System FM Carrier	UHF PLL Synthesized	UHF PLL synthesized
Frequency Range	740MHz ~ 865MHz (bands according to regulation)	740MHz ~ 865MHz (bands according to regulation)
Channel Frequencies	16 Pre-programmed switchable	16 Pre-programmed switchable
Frequency Stability	±0.005%	±0.005%
Maximum Deviation	±50KHz with level limiting	±50KHz with level limiting
Dynamic Range	<80dB	<80dB
Powering	2 x AA Ni-MH batteries averaging 10 hours use on full charge	External 12v DC 500MA, AC Adaptor 115v ~ 230v AC



• GT 402T - Hand Held Transmitter



• GT 502T - Transmitter



AG 100 Digital Audio Guide

A superb digital pre-programmed audio guide player using MP3 technology to provide high quality recorded audio for historical sites, museums and art galleries.

Features:

- High quality MP3 compression
- Multi-language messaging
- 4 hours capacity
- Raised and dotted keypad for the visually impaired
- Built-in speaker with headphone stereo jacks
- USB high speed download 10-way Master Charger unit (Part Number AGC-100U)

Models:

AG 100	Audio Guide Player
AGC-100U	10 Slot Master Charger with USB download
AGC 100	10 Slot Extension Charger

Model:	AG 100
Audio Format	MP3 audio compression
Frequency	50Hz ~ 18KHz
Dynamic Range	95dB
Distortion	Less than 0.1%
Loudspeaker	2mW @ 8Ω
Audio Output	2 x 3.5mm stereo jack
Recording Capacity	256Mb or 512Mb
No. of Languages	32 max
No. of Messages	950 max
Storage	SD card memory
File Format	Fat-12 Fat-16 Fat-32
Data Transfer	USB to SD card
Indicators	Power On - Green LED Playing - Flashing Green LED Low Battery - Red LEDs
Battery Life	Ni-Mh. 1300mAh rechargeable 10hrs typical Alkaline disposable 16hrs typical
Dimensions	235(H) x 59(W) x 28(D) mm
Weight	180g



AGC 100 10 Slot Charger

Model:	AGC 100
Charging Bays	10
Indicators	Charging - Orange Ready - Green Wrong Battery - Orange Flashing
Charging Current	300 ~ 350mA
Charging Time	4 ~ 5hrs



- **AGC 100** - 10 slot charger shown with audio guides (sold separately)

Communicator Two-way Intercom

The Clockaudio Communicator Full Duplex Two-way Communicator System is designed for use in situations where company staff need to be able to deal efficiently with visitors, whilst at the same time remaining totally secure.

Communicator has a wide range of applications and is especially ideal for use in areas where money transactions take place, where cash or other valuables are on view or where staff require a higher level than usual of personal safety.

Communicator also allows staff to deal in an efficient and friendly way with visitors, without giving them actual access to inner parts of the building where such access may be inappropriate. Communicator comprises of a range of professionally designed loudspeaker and microphone units, superbly styled to enhance any location. It is powered by a simple to operate, ruggedly-built amplifier providing excellent speech clarity.



CSU 100 Staff Speech Unit

The Staff Speech Unit provides two way communication with visitors via a high quality gooseneck microphone and loudspeaker, all housed within a single unit. A staff mute switch also ensures that visitors are unable to hear the operator in confidential conversations.



CA 100 Audio & Induction Amplifier

The CA 100 Audio and Induction Loop Amplifier is the control centre of the Communicator and provides full open duplex communication.



CLS 100/CML 100 Surface Mount Loudspeaker & Mic

The visitor enclosure can be used to house either a microphone or loudspeaker for visitors' use. It can be wall or counter top mounted and is well styled although its rugged construction ensures that it is long wearing and vandal resistant.



CLF 100/CMF 100 Flush Mount Loudspeaker & Mic

Visitor microphones and loudspeakers can alternatively be positioned in a housing which can be recessed into a wall or counter top, ideal for smoother styling and less intrusive positioning on busy counter tops and for providing additional protection from abuse.



CILP-10 Portable Induction Loop & PLS-10 Shelf

Designed as a highly portable, free-standing system to provide communication for people wearing a hearing aid featuring the 'T' facility. Suitable for use in a wide range of applications in meetings rooms, customer service counters, receptions and interview areas.

Features:

- Portable and easy to carry
- Very quick and simple to set up
- Integral microphone
- External microphone socket
- Microprocessor-controlled latest technology for optimum reception of speech and to conserve battery life
- Powered by rechargeable batteries with more than 24 hours use from full charge
- LED indications of speech and battery status
- Plug-in Power Adaptor for recharging and continuous use
- Elegant and robust ABS plastic construction



- CILP-10 Portable Induction Loop & PLS-10 Shelf

Model:	CILP-10
Power	Rechargeable 12v internal battery
Battery Life	24 Hours
Microphone	Condenser (back electret)
Polar Pattern	Omni-directional
External Mic. Connector	2.5mm jack plug socket (C 006 Boundary Layer recommended)
Power Adaptor Connection (12v)	2.1mm jack plug socket
Dimensions	250(H) x 275(W) x 110(D) mm
Weight	0.5kg

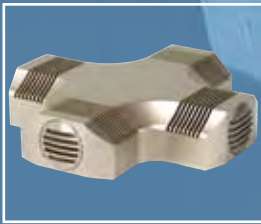
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Custom Solutions

In addition to the standard products featured in this catalogue, Clockaudio offer a comprehensive OEM service and will also, in many cases, customise existing products to individual requirements.

To find out more about the Clockaudio OEM service plus the range of custom colours, finishes and configurations available, please contact our corporate office on **Tel:** +44 (0)23 9225 1193 or **Email:** info@clockaudio.co.uk



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