



SL Technologie
Innovation Audiovisuelle

CLOCKAUDIO[®]

PROFESSIONAL MICROPHONE SYSTEMS

Clearly different.



Clockaudio was established in 1994 by a team of audio specialists with many years of experience in the design and manufacture of innovative Pro-Audio products.

The company's reputation has been established on sound principles, its dedication to quality, service and innovation.

Audio professionals actively seek out and recommend Clockaudio for its reputation as a trusted and dedicated manufacturer and its acknowledged customer drive approach to audio solutions.

Central to this is the in-house research and development facility which allows clients to explore customised prototypes and develop specific briefs in partnership.

This partnership approach has struck a chord with consultants and contractors alike, giving them the opportunity to be involved in the final solution.

The ability to customise is just one of the many factors which makes Clockaudio clearly different.



 **CLOCKAUDIO®**

Clearly different.

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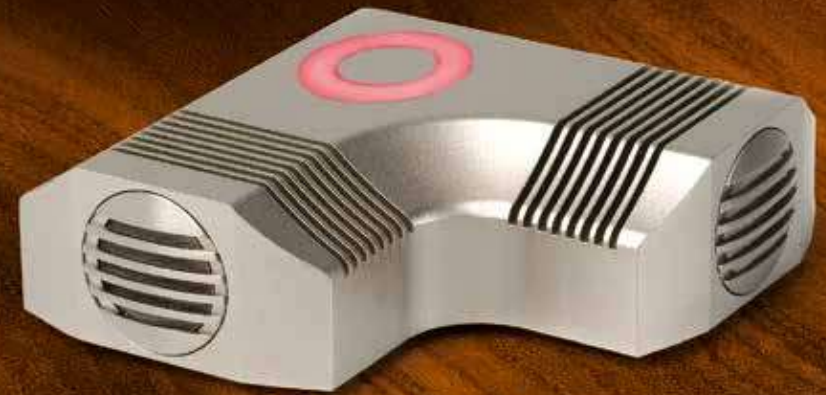
RF Series: GSM-friendly microphones and shock mounts

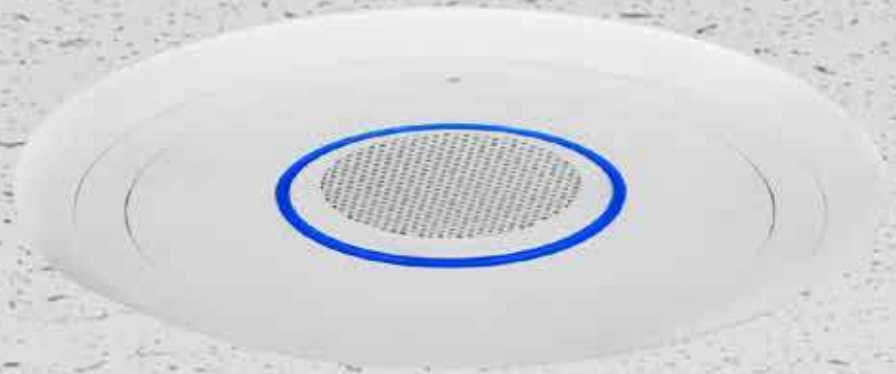
The **Clockaudio RF** product range has been developed in direct response to interference (noise) issues which have been introduced into microphones, IP phones, hearing aids, etc. by popular GSM devices such as PDAs and mobile phones with two-way walkie-talkie capability. The noise emitted from these 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:





INTRODUCING

TIM-1000

The Clockaudio Tracking Intelligent Microphone (TIM) sets a brand new standard for ceiling mounted microphones for use in AV conference and huddle room applications. The ultra low profile ceiling microphone with tracking ability and Adaptive Proximity Tracking technology (APT). TIM tracks participants and follows them anywhere in the room while the APT constantly adjusts their levels.

Other features include noise suppression, 3-band EQ, intuitive GUI, and an RGB ring for visual room status. Powered over ethernet, the device utilises API control via UDP commands and comes with separate control and audio paths. Single audio channel output to Dante & AES67 networks.



TIM-1000

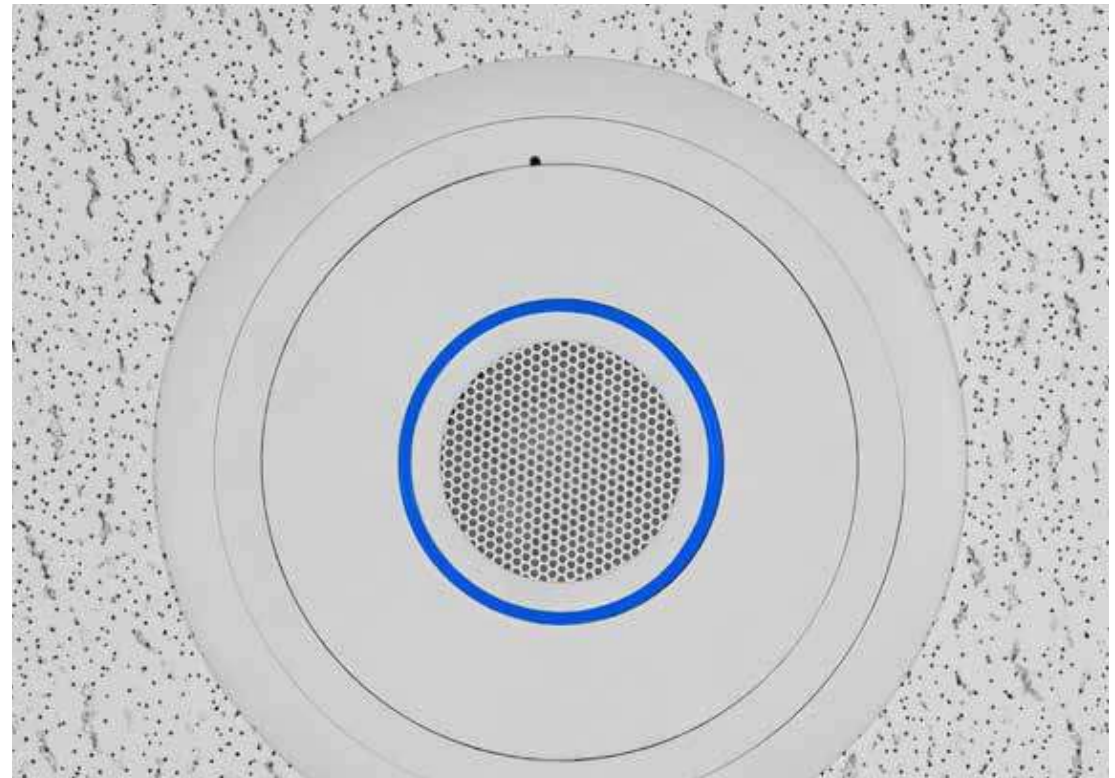
The Tracking Intelligent Microphone (TIM) breaks the mould for ceiling microphones. Designed for use in AV conference and huddle room applications. Low profile ceiling microphone with tracking ability and Adaptive Proximity Tracking Technology (APT). TIM tracks participants and follows them anywhere in the room while the APT constantly adjusts their levels. Other features include noise suppression, 3-band EQ, intuitive GUI, and an RGB ring for visual room status. Powered over ethernet, the device utilises API control via UDP commands and comes with separate control and audio paths. Single audio channel output to Dante & AES67 networks. Designed for use in AV conference and huddle room applications. The microphone is constructed with UL 2043 rated plastics and aluminium shell.

- Tracks meeting participants within a room
- APT technology for best possible sound output
- Eliminates unwanted steady state noise e.g. air conditioning, projectors
- Built-in equalizer
- Supports DANTE and AES67
- Intuitive GUI through standard web browser
- Powered over ethernet (PoE+)
- Separate control and data paths for added security
- API commands via UDP
- Easy setup and install
- Finished in White

Models:

- 🌐 **TIM-1000-CM** Ceiling Mount version

Model:	TIM-1000-CM
Type	Condenser microphone array
Operating Temperature	0 to 40 deg C
Storage Temperature	minus 20 to 60 deg C
Power Requirements	8W (42~57vDC, POE+, IEEE 802.3at)
Termination	RJ 45
Wiring Connections	shielded CAT 5e or better
Supplied Accessories	Suspension kit
Finish	White
Weight	1.35Kg (3lbs)
Dimensions	Diameter: 270mm (10.63") Height: 75mm (2.95")



TIM-1000-PM



TIM-1000-PM-Kit

TIM-1000 top cover for pole mount application on a standard 50mm (2") pole (pole not included).



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 vertical angle adjustment



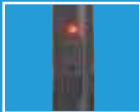
• LED Halo

High brightness 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 /2G, 3G, 4G and 5G devices



C 3 Series

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.

- 6mm Ø slimline, flexible gooseneck
- Mini-XLR termination for easy interchange
- Engineered in high quality brass
- Finished in Satin Black or White

Models:

C 3100	125mm	Fully flexible
C 310-R	100mm	Rigid
C 312-SR	200mm	Semi-rigid
C 313-SR	300mm	Semi-rigid
C 314-SR	400mm	Semi-rigid

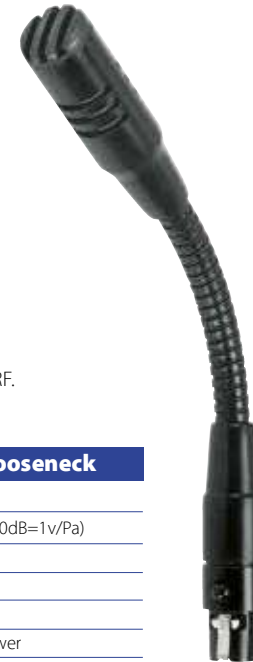
These products are compatible with SM 20-RF, SM 80-RF, PPA-RF and S140-RF.

Model: C 3 Slimline Gooseneck

Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	1.8kΩ
S/N Ratio	69dB(A)
Maximum SPL	120dB 1% THD
Power Requirements	9 ~ 48v Phantom Power
Termination	Female 3 pin Mini XLR connector
Dimensions	Head Ø 12mm Shaft Ø 6mm



Includes W 2 windshield



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.


C 3 Series are open-ended, C 3E Series have PPA with Male 3 pin XLR.

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

Base Models:

C 31	100mm	+ PPA 180mm
C 32	200mm	+ PPA 280mm
C 33	300mm	+ PPA 380mm
C 34	400mm	+ PPA 480mm
C 35	500mm	+ PPA 580mm
C 36	600mm	+ PPA 680mm
C 301	Knuckle 80mm	+ PPA 180mm

Options:

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

Model: C 3 and C3E Series

Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	C 3: 1.8kΩ C3E: 200Ω
S/N Ratio	69dB(A)
Power Requirements	C 3 Series: 1.5 - 9v through resistor C 3E Series: 9 ~ 48v Phantom Power



Includes W 2 windshield



C 3 Series

halo 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.


C 3 series open-ended; C 3E series with PPA with Male 5 pin XLR.

- High brightness LED
- 5 pin XLR or base mounting
- 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 31HALO	100mm	+ PPA 200mm
C 32HALO	200mm	+ PPA 300mm
C 33HALO	300mm	+ PPA 400mm
C 34HALO	400mm	+ PPA 500mm
C 35HALO	500mm	+ PPA 600mm
C 36HALO	600mm	+ PPA 700mm
C 301HALO	Knuckle	+ PPA 199mm

Options:

Also available with  RF-Immunity. See 'Available Gooseneck Options' (left) for full details.

Model:	C 3 and C 3E Halo Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB \pm 3dB at 1KHz (0dB=1v/Pa)
Impedance	C 3: 1.8k Ω C 3E: 200 Ω
S/N Ratio	69dB(A)
Power Requirements	C 3 Series: 1.5 - 9v through resistor C 3E Series: 9 ~ 48v Phantom Power



Includes W 2 windshield



C 1001E-RF

super-cardioid knuckle joint

The 'ready-made' C 1001E-RF microphone features the C 1000H super-cardioid condenser capsule and CAK Phantom Power Adaptor with knuckle joint for horizontal rotation and vertical angle adjustment. Supplied with a Male 3 pin XLR connector and a PPA, the C 1000H can be used with any of the Clockaudio bases that support XLR connection. They are suitable for a wide range of applications including conference halls, places of worship, board rooms, leisure centres, etc.

- Uses the C 1000H super-cardioid condenser capsule
- Knuckle joint provides horizontal rotation and vertical angle adjustment
- Integrated Phantom Power Adaptor
- Male 3 pin XLR termination facilitating use of multiple Clockaudio bases
- Finished in Satin Black
- Also available in Nextel Suede Coating finishes (Custom Orders Only)

Models:

 **C 1001E-RF**

Model:	C 1001E-RF
Frequency Response	50Hz ~ 20KHz
Sensitivity	-39dB \pm 3dB @ 1KHz (0dB=1v/Pa)
Impedance	200 Ω
S/N Ratio	68dB(A) \pm 3dB
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 3 pin XLR



C 800

shotgun gooseneck

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

- Optimised for speech clarity
- Slimline gooseneck
- Superior grade components
- Finished in Satin Black

Models:

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

Model:	C 800 Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz (0dB = 1v/Pa)
Impedance	C800: 1.8kΩ C800E: 200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR



Includes W 8 windshield

C 801

shotgun knuckle joint

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

- Optimised for speech clarity
- 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 8.

Model:	C 801 Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz (0dB = 1v/Pa)
Impedance	C801: 1.8kΩ C801E: 200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR



Includes W 8 windshield

C 815E-RF / C 816E-RF

shotgun goosenecks

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.

- Hypercardioid polar pattern
- Slimline mini shotgun
- Superior grade components
- Unobtrusive design
- Finished in Satin Black

Models:

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

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



Includes W 85 windshield

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.



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

Models:

C 420E

Model:	C 420E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N Ratio	69dB(A)
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 5 pin XLR



Includes W 2 windshield

C 430E

twin mount

Twin rigid shafts vertically adjustable, individually through 180°. Accepts C 3H, C 1000H and C 800H capsules. Individually powered, providing live redundant capability so often required in a live broadcast situation. Finished in Satin Black.



- Optimised for consistent sound quality
- Integrated Phantom Power Adaptor
- 5 pin XLR mounting
- Shaft angles independently adjustable
- Three microphone head variants
C 1000H Rugged Super Cardioid condenser
C 3H Slimline Cardioid condenser
C 800H Hyper-cardioid Mini shotgun
- Heads priced and supplied separately

Capsule options available:



C 1000H

C 3H

C 800H

Models:

C 430E

Model:	C 430E
Power Requirements	9 ~ 48v Phantom Power
Termination	Male 5 pin XLR

Includes W 2 windshield

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.



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

Models:

C 440E

Model:	C 440E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power Switchable Bass Filter & -10dB Switchable Pad
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR



Includes W 2 windshield



Combination Series

The C 1000H, C 3H, C 3HW and C 800H microphones with Mini-XLR connections are a series of easily interchangeable microphones. Together with various bases that support Mini-XLR connectivity this group of products is referred to as the combination series. They are suitable for a wide range of applications including broadcast, conference halls, places of worship, leisure centres, etc.

Microphones

- **C 1000H** Rugged wide band super-cardioid condenser microphone for multiple use. Finished in Satin Black
- **C 3H** Short slimline cardioid condenser microphone for use in controlled acoustic environments. Finished in Satin Black (C 3H) and White (C 3HW)
- **C 800H** Hyper-cardioid condenser mini shotgun microphone useful in a wide range of pro and live sound speech applications. Finished in Satin Black



• C 1000H



• C 3H



• C 800H



• C 3H: Includes W 2 windshield



• C 800H: Includes W 8 windshield

Model:	C 1000H	C 3H, C 3HW	C 800H
Frequency Response	50Hz ~ 20KHz	50Hz ~ 18KHz	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz	-39dB ±3dB at 1KHz	-37dB ±3dB at 1KHz
Impedance	1.0KΩ	1.8KΩ	1.8KΩ
S/N Ratio	68dB(A)	69dB(A)	69dB(A)
Power requirements	Requires a PPA	Requires a PPA	Requires a PPA
Termination	Male 3 pin Mini XLR	Male 3 pin Mini XLR	Male 3 pin Mini XLR

Combination Series related products

CAK 1-RF

Phantom Power Adaptor with knuckle joint and Female 3 pin Mini XLR connector short microphone holder.



SM 155

Floor mounting, shock absorbing microphone base.

CA 30-RF/ CA 40-RF

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 Female 3 pin Mini XLR connector.



CA 700-RF/ CA 900-RF

floor standing long shafts

Long, rigid shafts of 700mm and 1200mm respectively.



D 33/D 34

dynamic goosenecks

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

- 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

For Semi-Rigid variant add SR to product code.

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

D 43/D 44

dynamic goosenecks

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

- 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 microphone

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

- 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

D 5

general purpose dynamic microphone module with cardioid polar pattern.

- Dynamic microphone has a cardioid polar pattern
- Optimised for speech purposes
- Made of robust high quality brass construction and terminated with Male 3 pin XLR
- Applications include: paging, intercom, ticket counters, buses, trains, restaurants, dispatch desks
- Finished in low reflective Satin Black



Model:	D 5
Polar Pattern	Cardioid
Frequency Response	150Hz ~ 12KHz
Sensitivity	-63dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Termination	Male 3 pin XLR
Finish	Satin Black

ARM 102-RF

motorised through-table boundary cardioid condenser microphone

The ARM 102-RF is a boundary layer through-table cardioid condenser microphone, with a built-in motorised mechanism that will allow the user to make the microphone disappear without having to physically touch it or remove it from the table. A positive (+2.5V to +12V) signal applied to the DSP control port will simultaneously activate all ARM motorised microphones connected to the ARM-C (control unit for ARM microphones).

- Easy to install
- Low profile at surface level
- Robust brass construction
- Cardioid polar pattern
- Built-in RF filter
- Balanced output
- Supplied with 2m (6.6ft) 2 core + screen cable
- Finished in Black Nextel or Satin Nickel

Models:

- 🌐 **ARM 102-RF** Black
- 🌐 **ARM 102N-RF** Nickel

Model:	ARM 102-RF
Type	Condenser (Back Electret)
Polar Pattern	Half-cardioid
Frequency Response	50Hz - 18KHz
Sensitivity	-37dB +/- 3dB @ 1KHz (0dB = 1v/Pa)
Impedance	200Ω
S/N Ratio	69dB(A)
Maximum SPL	125db at 1KHz 1% T.H.D.
Power Requirements	9 ~ 48v Phantom Power
Termination	Open ended
Dimensions	Above Table: 18mm (0.70") Diameter: 36mm (1.42") Below Table: 149mm (5.86") Diameter: 30mm (1.18")



ARMF straight cut

Illustrating straight cut edge for counter boring into table top to give a perfectly flat surface.

Models:

- 🌐 **ARMF 102-RF** Black
- 🌐 **ARMF 102N-RF** Nickel



ARM 202-RF

motorised through-table boundary cardioid condenser microphone

The ARM 202-RF is a boundary layer through-table cardioid condenser microphone, with a built-in motorised mechanism that will allow the user to make the microphone disappear without having to physically touch it or remove it from the table. A positive (+2.5V to +12V) signal applied to the DSP control port will simultaneously activate all ARM motorised microphones connected to the ARM-C (control unit for ARM microphones).

- Easy to install
- Low profile at surface level
- Robust brass construction
- Cardioid polar pattern
- Built-in RF filter
- Balanced output
- Supplied with 2m (6.6ft) 2 core + screen cable
- Finished in Black Nextel or Satin Nickel

Models:

- **ARM 202-RF** Black
- **ARM 202N-RF** Nickel

Model:	ARM 202-RF
Type	Condenser (Back Electret)
Polar Pattern	Half-cardioid
Frequency Response	50Hz - 18KHz
Sensitivity	-37dB +/- 3dB @ 1KHz (0dB = 1v/Pa)
Impedance	200Ω
S/N Ratio	69dB(A)
Maximum SPL	125db at 1KHz 1% T.H.D.
Power Requirements	9 ~ 48v Phantom Power
Termination	Open ended
Dimensions	Above Table: 18mm (0.70") Diameter: 63mm (2.48") Below Table: 199mm (7.83") Diameter: 58mm (2.25")



Accessories

ARM-C

Digital four-channel motor control box for use with the ARM series of motorised through-desk boundary microphones.

ARM-PSU 4

Switched mode power supply capable of delivering regulated 12vDC @ 5 Amps.

(see page 28)

CRM 200-RF Series

retractable through-table cardioid microphones

The CRM 200-RF Series is a multi-element boundary layer through-table microphone, which includes a built-in mechanism that allows the user to make the microphone disappear without having to physically remove it from the table. Simply by 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. It is designed to be placed in the middle of the conference table. Engineered in high quality brass with built-in shock mount and RF filter.

- Integral reed contact switch designed to be used for remote switching by DSP
- Easy to install
- Low profile at surface level
- Lock capsule away from sight when not in use
- Robust brass construction
- Cardioid polar pattern
- Built-In RF filter
- Balanced output
- Inbuilt Phantom Power module
- Supplied with 2m (6.6 ft) 2 core + screen audio cable
- Finished in Black Nextel or Satin Nickel

Models:

- 🔗 CRM 202-RF dual element cardioid Black
- 🔗 CRM 202N-RF dual element cardioid Nickel
- 🔗 CRM 203-RF triple element cardioid Black
- 🔗 CRM 203N-RF triple element cardioid Nickel

CRMF straight cut

Illustrating straight cut edge for counter boring into table top to give a perfectly flat surface.



Models:

- 🔗 CRMF 100-RF Black
- 🔗 CRMF 100N-RF Nickel
- 🔗 CRMF 102-RF Black
- 🔗 CRMF 102N-RF Nickel

CRM 202-RF dual element cardioid condenser microphone

- Offering two independently wired microphones
- Dual cardioid polar pattern
- 2 x balanced outputs
- Inbuilt Phantom Power modules

CRM 203-RF tri element cardioid condenser microphone

- Offering three independently wired microphones
- Tri-cardioid polar pattern
- 3 x balanced outputs
- Inbuilt Phantom Power modules



Model:	CRM 202-RF	CRM 203-RF
Type	Condenser (Back Electret)	Condenser (Back Electret)
Polar Pattern	Half-cardioid	Half-cardioid
Frequency Response	50Hz - 18 KHz	50Hz - 18 KHz
Sensitivity	-37dB +/- 3dB @ 1 KHz (0dB = 1v/Pa)	-37dB +/- 3dB @ 1 KHz (0dB = 1v/Pa)
Impedance	200Ω	200Ω
S/N Ratio	69dB (A)	69dB (A)
Maximum SPL	125db at 1 KHz 1% T.H.D.	125db at 1 KHz 1% T.H.D.
Power Requirements	9 ~ 48v Phantom Power	9 ~ 48v Phantom Power
Termination	Open ended	Open ended
Dimensions	Above Table: 15mm (0.58") Diameter: 63mm (2.48") Below Table: 112mm (4.41") Diameter: 56.5mm (2.22")	Above Table: 15mm (0.58") Diameter: 63mm (2.48") Below Table: 112mm (4.41") Diameter: 56.5mm (2.22")

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.

- 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
- Finished in Black Nextel or Satin Nickel



CRMF Straight Cut - see page 16

Models:

- **CRM 102-RF** Black
- **CRM 102N-RF** Nickel

Model:	CRM 102-RF
Type	Condenser (Back Electret)
Polar Pattern	Half-cardioid
Frequency Response	50Hz - 18KHz
Sensitivity	-37dB +/- 3dB @ 1KHz (0dB = 1v/Pa)
Impedance	200Ω
S/N Ratio	69dB(A)
Maximum SPL	125db at 1KHz 1% T.H.D.
Power Requirements	9 ~ 48v Phantom Power
Termination	Open ended
Dimensions	Above Table: 15mm (0.58") Diameter: 36mm (1.42") Below Table: 111mm (4.37") Diameter: 30mm (1.18")

C 004E-RF

through-table boundary microphone

Cardioid boundary layer condenser microphones designed for a wide range of installed audio, conferencing or security applications.

- RF-Immune
- Engineered in high quality brass
- Balanced output
- Simple through-table shock mounting
- Finished in Satin Black or Matt White



Models:

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

Model:	C 004E-RF
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR

C 012E-RF

through-table boundary microphone

This through-table cardioid microphone was created for applications demanding sonic quality, but also requiring an extremely robust housing within an extreme environment.

- RF-Immune
- Engineered in high quality brass
- Balanced output
- Simple through-table shock mounting
- Finished in Satin Black or Satin Nickel



Models:

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

Model:	C 012E-RF
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR

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 CS 1-RF is a single element microphone, the CS 2-RF is a dual element boundary layer condenser microphone, with a half-cardioid polar pattern, designed to be placed in the middle of the conference table, with each element facing the participants. 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 to accommodate this situation.

The CS 4-RF completes the CS-RF Series microphone family, offering a quadruple element microphone in a single housing. The CS 4-RF can be positioned in the centre of a round conference table, giving maximum coverage from a small footprint.

These microphones are made of solid brass and finished in a durable non-reflective Black Nextel or Satin Nickel 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). The microphones accommodate bottom cable exit, for permanent mounting in boardroom situations.

- Half-cardioid polar pattern
- Fully balanced
- Finished in non-reflective Black Nextel or Satin Nickel
- The CS series available in other customised colours and special finishes upon request

Models:

- CS 1(N)-RF single element Black/Nickel
- CS 2(N)-RF dual element Black/Nickel
- CS 3(N)-RF triple element Black/Nickel
- CS 4(N)-RF quadruple element Black/Nickel

Model:	CS-RF
Microphone	Condenser (back electret)
Polar Pattern	Half-cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Open ended multi-core cable



CS 1-RF - single element boundary microphone



CS 2-RF - dual element boundary microphone



CS 4-RF - quadruple element boundary microphone (model shown CS 4N-RF)



CS 3-RF - triple element boundary microphone



C 006E

low profile boundary microphone

Half-cardioid small sensitive professional boundary layer condenser microphone for a variety of A.V. and induction loop applications.

- Half-cardioid polar pattern
- Fully balanced
- Low profile
- Finished in Black Nextel or Stone Grey Nextel



Models:

- C 006E** Male 3 pin XLR
C 006EG Male 3 pin XLR
C 006-JP 3.5 mm Jack plug

Model:	C 006E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power requirements	9 ~ 48v Phantom Power
	Switchable Bass Filter & -10dB Switchable Pad
S/N Ratio	69dB(A)

C 008E-RF

tabletop boundary microphone

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

- Half-cardioid polar pattern
- Fully balanced
- High quality engineering in solid brass
- Concealed cable and fixing screw mounting
- Finished in Black Nextel or Stone Grey Nextel



Models:

- C 008E-RF** Black
C 008EG-RF Grey

Model:	C 008E
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR

C 016E-RF

tabletop boundary microphone

New style cardioid boundary layer condenser microphone featuring programmable touch pad switching for professional AV applications such as meetings, conference and lectern installations.

Optimised for speech clarity, these RF-Immune boundary microphones feature built-in Phantom Power module and are finished in Satin Black.



Models:

- C 016E-RF** Cardioid

Model:	C 016E-RF
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB = 1vPa)
Impedance	200Ω
Switching	Programmable for PTT PTM & Latching
Power Requirements	48v Phantom Power
S/N Ratio	69dB(A)
Termination	Male 5 pin XLR with remote switch ability





ARM 100-RF

motorised through-table boundary omni-directional microphone

The ARM 100-RF is a boundary layer, through-table, omni-directional microphone, with a built-in motorised mechanism that will allow the user to make the microphone disappear without having to physically touch it or remove it from the table. A positive (+2.5V to +12V) signal applied to the DSP control port will simultaneously activate all ARM motorised microphones connected to the ARM-C (control unit for ARM microphones).

- Easy to install
- Low profile at surface level
- Robust brass construction
- Omni-directional polar pattern
- Built-in RF filter
- Balanced output
- Supplied with 2m (6.6ft) 2 core + screen cable
- Finished in Black Nextel or Satin Nickel

Models:

 ARM 100-RF	low profile	Black
 ARM 100N-RF	low profile	Nickel
 ARMF 100-RF	flush profile	Black
 ARMF 100N-RF	flush profile	Nickel

Model:	ARM 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: 18mm (0.70") Diameter: 36mm (1.42") Below Table: 149mm (5.86") Diameter: 30mm (1.18")

ARMF/CRMF straight cut

Illustrating straight cut edge for counter boring into table top to give a perfectly flat surface.







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.

- 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
- Finished in Black Nextel or Satin Nickel

Models:

 CRM 100-RF	low profile	Black
 CRM 100N-RF	low profile	Nickel
 CRMF 100-RF	flush profile	Black
 CRMF 100N-RF	flush profile	Nickel

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: 15mm (0.59") Diameter: 36mm (1.42") Below Table: 111mm (4.37") Diameter: 30mm (1.18")





C 003E-RF

through-table boundary microphone

Omni-directional boundary layer condenser microphones designed for a wide range of installed audio, conferencing or security applications.

- RF-Immune
- Engineered in high quality brass
- Balanced output
- Simple through-table shock mounting
- Finished in Satin Black or Matt White



- Models:**
- 🌐 **C 003E-RF** Black
 - 🌐 **C 003EW-RF** White

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

C 011E-RF

through-table boundary microphone

This through-table omni-directional microphone was created for applications demanding sonic quality, but also requiring an extremely robust housing within an extreme environment.

- RF-Immune
- Engineered in high quality brass
- Balanced output
- Simple through-table shock mounting
- Finished in Satin Black or Satin Nickel



- Models:**
- 🌐 **C 011E-RF** Black
 - 🌐 **C 011EN-RF** Nickel

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

C 30H

through-chair / panel mount boundary microphone

Through-desk/ceiling/panel mount boundary layer microphone. The microphone is constructed from high quality brass and includes filters offering immunity from GSM and other sources of frequency interference.

- RF friendly technology offering immunity from GSM (mobile phones) and other sources of frequency interference
- Low profile back electret condenser microphone
- Designed for conferencing and security applications
- The microphone is constructed from high quality brass
- Total Harmonic Distortion (THD) at an operating level of 120dB is no greater than 1%
- Finished in Satin Black
- Also available in Nextel Suede Coating finishes (custom orders only)

Models:

 **C 30H**



Model:	C 30H
Type	Condenser (Back Electret)
Polar Pattern	Omni-directional
Frequency Response	50Hz~20KHz
Sensitivity	-68dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)
Impedance	200 Ohms
S/N Ratio	68dB(A)
Power Requirements	9~48v Phantom Power through CPPW 01-RF
Termination	Open ended
Finish	Satin Black
Dimensions	30mm x 17mm x 11mm

C 015E-RF


tabletop boundary microphone

New style omni-directional boundary layer condenser microphone featuring programmable touch pad switching for professional AV applications such as meetings, conference and lectern installations.

Optimised for speech clarity, these RF-Immune boundary microphones feature built-in Phantom Power module and are finished in Satin Black.



Models:

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

Model:	C 015E-RF
Polar Pattern	Omni-directional
Frequency Response	50Hz ~ 20KHz
Sensitivity	-44dB ± 3dB @ 1KHz (0dB=1vPa)
Impedance	200Ω
Switching	Programmable for PTT PTM & Latching
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	70dB(A)
Termination	Male 5 pin XLR with remote switch ability

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.

- Omni-directional polar pattern
- Wide range, smooth response
- Very low profile
- Finished in Black or Stone Grey Nextel



Models:

- **C 002E-RF** Black
- **C 002EG-RF** Grey

Model:	C 002E-RF
Frequency Response	50Hz ~ 20KHz
Sensitivity	-44dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	70dB(A)
Termination	Male 3 pin 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.

- Omni-directional polar pattern
- Wide range, smooth response
- Very low profile
- Finished in Black or Stone Grey Nextel



Models:

- **C 009E-RF** Black
- **C 009EG-RF** Grey

Model:	C 009E-RF
Frequency Response	50Hz ~ 20KHz
Sensitivity	-44dB ±3dB at 1KHz (0dB=1v/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	70dB(A)
Termination	Male 3 pin XLR

C 005

Boundary layer condenser microphone designed for surveillance and recording in sensitive areas such as banks, conferences and convention centres, law courts, airports and railways.

- Omni-directional polar pattern
- Wide smooth response
- Simple fixing with 4 screws provided
- Strong ABS flanged housing
- Finished in Black
- Inbuilt Phantom Power Module
- Internal screw fixing terminals for wiring



Model:	C 005
Frequency Response	50Hz ~ 18KHz
Impedance	200Ω
Sensitivity	-42.5dB +/- 3dB @ 1 KHz (0dB = 1 V/Pa)
S/N Ratio	68dB(A)
Power Requirements	9 - 48 volts Phantom Power
Finish	Black

CS S-RF RGB Series

boundary layer professional switched microphones

The CS (Consultant Series) with integrated electronic touch sensitive switch. Developed to minimise the number of microphones on the conference table whilst maintaining high performance and ease of installation.

- Immune to RF artefacts
- Boundary layer dual element condenser microphone
- Half-cardioid polar pattern
- Integrated electronic touch switch with RGB LED Halo ring
- Fully balanced
- Engineered in high quality brass
- Finished in non-reflective Black Nextel or Satin Nickel
- Inbuilt Phantom Power Module
- Touch switch requires connection to a DSP, CDT-100 or LB001 mute control box
- Terminated with RJ 45 for switching

Models:

- CS 1S(N)-RF RGB single element Black/Nickel
- CS 2S(N)-RF RGB dual element Black/Nickel
- CS 2SV(N)-RF RGB dual element Black/Nickel
- CS 3S(N)-RF RGB triple element Black/Nickel
- CS 4S(N)-RF RGB quadruple element Black/Nickel

Model:	CS S-RF RGB
Microphone	Condenser (back electret)
Polar Pattern	Half-cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB +/- 3dB at 1 KHz (0dB = 1 V/Pa)
Impedance	200Ω
Power Requirements	9 ~ 48v Phantom Power
S/N Ratio	69dB(A)
Termination	Open ended for audio RJ 45 for switching



CS 1S-RF RGB



CS 2S-RF RGB



CS 2SV-RF RGB
(model shown CS 2SVN-RF RGB)



CS 3S-RF RGB



CS 4S-RF RGB
(model shown CS 4SN-RF RGB)

CRM 200S-RF RGB Series

retractable through-table microphones with tri-colour halo ring and touch sensitive switch

The CRM 200S RF RGB series is a boundary layer through-table microphone, which includes a touch sensitive switch with tri-colour LED halo mounted into the top of the microphone housing. The CRM 200S-RF RGB series has a built-in mechanism that allows the user to make the microphone disappear without having to physically remove it from the table. Simply by 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. It is designed to be placed in the middle of the conference table. Engineered in high quality brass with built-in shock mount and RF filter.

- Integral reed contact switch designed to be used for remote switching by DSP
- Touch sensitive switch with RGB with TS-C1
- Easy to install
- Low profile at surface level
- Lock capsule away from sight when not in use
- Robust brass construction
- Built-in RF filter
- Balanced output
- Inbuilt Phantom Power module
- Supplied with 2m (6.6 ft) 2 core + shield cable
- Finished in Black Nextel or Satin Nickel

Models:

- **CRM 200S-RF RGB** single omni-directional Black
- **CRM 200SN-RF RGB** single omni-directional Nickel
- **CRM 202S-RF RGB** dual half-cardioid Black
- **CRM 202SN-RF RGB** dual half-cardioid Nickel
- **CRM 203S-RF RGB** triple cardioid Black
- **CRM 203SN-RF RGB** triple cardioid Nickel

CRM 200S-RF RGB

single omni-directional element

- Omni-directional polar pattern
- Balanced outputs
- Inbuilt Phantom Power module

CRM 202S-RF RGB

dual element cardioid condenser microphone

- Offering two independently wired microphones
- Dual cardioid polar pattern
- 2 x balanced outputs
- Inbuilt Phantom Power modules

CRM 203S-RF RGB

tri-element cardioid condenser microphone

- Offering three independently wired microphones
- Tri-cardioid polar pattern
- 3 x balanced outputs
- Inbuilt Phantom Power modules



Model:	CRM 200S-RF RGB	CRM 202S-RF RGB	CRM 203S-RF RGB
Type	Condenser (Back Electret)	Condenser (Back Electret)	Condenser (Back Electret)
Polar Pattern	Omni-directional	2 x Half-cardioid	3 x Cardioid
Frequency Response	50Hz~18KHz	50Hz~18KHz	50Hz~18KHz
Sensitivity	-37.5dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)	-37dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)	-37dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)
Impedance	200 Ohms	200 Ohms	200 Ohms
S/N Ratio	68dB(A)	69dB(A)	69dB(A)
Maximum SPL	125dB at 1 KHz 1% THD	125dB at 1 KHz 1% THD	125dB at 1 KHz 1% THD
Power Requirements	9~48v Phantom Power	9~48v Phantom Power	9~48v Phantom Power
Supplied Accessories	TS-C1	TS-C1	TS-C1
Termination	Audio: Open ended Touch Switch: CAT5 cable terminated via TS-C1 with RJ45	Audio: Open ended Touch Switch: CAT5 cable terminated via TS-C1 with RJ45	Audio: Open ended Touch Switch: CAT5 cable terminated via TS-C1 with RJ45
Dimensions	Above Table Deployed: 15mm (0.59") Diameter: 63mm (2.5") Below Table: 112mm (4.41") Diameter: 56.5mm (2.22")	Above Table Deployed: 15mm (0.59") Diameter: 63mm (2.5") Below Table: 112mm (4.41") Diameter: 56.5mm (2.22")	Above Table Deployed: 15mm (0.59") Diameter: 63mm (2.5") Below Table: 112mm (4.41") Diameter: 56.5mm (2.22")



TS 003 RGB

The TS 003 RGB is a flush mount halo ring and switch combination which has been designed for use with all Clockaudio microphones requiring a remote switch facility.

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 RGB LED colour.

- Designed for remote switching
- Clear polycarbonate ring integrated with RGB LED and touch switch
- 12v DC operation
- Current consumption 70mA
- Supplied with TS-C1 controller to interface with DSP or CDT-100

Model:	TS 003 RGB
Type	Ring integrated with RGB LED & touch sensitive switch
LED Colour	Red, Green, Blue
Operating Voltage	12v DC (Regulated)
Current Consumption	70mA
Termination	6 core ribbon cable + connector
Dimensions	Above Table: 2.5mm (0.1") Diameter: 20mm (0.79") Below Table: 42.5mm (1.67") Diameter: 15mm (0.59")

TS 005 RGB

halo ring & touch pad switch

The TS 005 RGB capacitive touch switch is specially designed for use with Clockaudio's through-table microphones. With no moving parts, low-profile mounting and encapsulated electronics, TS 005 RGB provides multiple colours, clear and precise visual operational status as well as protection from office contaminants affecting its operation. Comes with modular under desk mount TS-C1 controller for easy install.

- Self-calibrating, low profile mount capacitive touch switch facilitating click / pop free switching of a microphone from DSP
- LED provides multi-colour combination for clear precise visual status of microphone
- Suitable for fitting Clockaudio's C 003E-RF, C 004E-RF, C 011E-RF, C 012E-RF microphones, SM 10 and SM 20-RF stands
- Terminated with RJ 45 connector and supplied with a touch switch controller (TS-C1) allows connection via CAT 5E patch cable back to CDT-100 or directly to DSP
- Programmable via DSP to operate in PTT, PTM or latching modes
- 12V DC operation using regulated power supply or CDT-100
- RS-IN on TS-C1 provides connectivity to an external switch
- Maximum current consumption 140mA

Models:

TS 005 RGB	Black
TS 005W RGB	White

Model: TS 005 RGB

Type	RGB Halo Ring & touch sensitive switch
LED Colour	Red, Green, Blue
Operating Voltage	12v DC (Regulated)
Current Consumption	140mA
Termination	RJ 45



SWP 2 RGB

Through-table microphone mount made from solid brass with electronic touch switch and RGB LED to give clear precise visual status of operation. Touch switch has no moving parts and the electronic circuitry is encapsulated to prevent liquids or other contaminants affecting its operation. Used in conjunction with DSP units and other electronic mute switching boxes to facilitate soft PTT, PTM and Latching switching. Requires 12vDC power.

- Easy to install
- Low profile at surface level
- Cutouts to support ARMF and CRMF
- Switch plate integrated with the low profile TS 006 RGB capacitive touch switch
- TS 006 RGB is self-calibrating and provides a RGB LED that can produce multi-colour combination for clear precise visual status of microphone or other devices
- Terminated with RJ45 connector and supplied with a touch switch controller (TS-C1) allows connection via CAT 5E patch cable back to CDT-100 or directly to DSP
- Finished in Black Nextel or Satin Nickel
- Also available in Nextel Suede Coating finishes (custom orders only)



Models:

SWP 2 RGB	Black
SWP 2N RGB	Nickel

Model:	SWP 2	
Power Requirements	12vDC @ 70mA	
Termination	RJ45 Plug Pins 1-7 used	
Supplied Accessories	TS-C1	
Finish	Black Nextel or Satin Nickel	
Weight	160g	
Dimensions	Length:	92mm (3.6")
	Width:	64mm (2.5")
	Height:	2.60mm (0.1")



ARM-C

digital four channel motor control box

Digital four channel motor control box for use with the ARM series of motorised through-table boundary microphones.

- Power LED indicator blue
- Ports: 2 x RJ12 for DSP and linking to another ARM-C control box
- Logic input port will simultaneously raise / lower all ARM microphones
- Powered by ARM-PSU 4, an external 12vDC switched mode power supply
- DC connections to the box are via a 2 terminal removable phoenix connector
- All microphones and controller boxes are preset / calibrated at the factory
- Capable of operating up to 4 ARM microphones

Models:

ARM-C



Model:	ARM-C	
Weight	0.2Kgs	
Finish	Black	
Dimensions	Length:	85mm
	Width:	198mm
	Height:	42mm

ARM-PSU 4

power supply

ARM-PSU 4 is a switched mode power supply capable of delivering regulated 12vDC @ 5 Amps. For use with 4 X ARM-C control box. May be used on mains supplies from 100~230vAC. Mains cable is detachable IEC design.

- For use with the ARM-C control box
- Power supply is capable of delivering regulated 12vDC @ 5 Amps
- For use with up to 4 X ARM-C control boxes
- Can be used on mains supplies from 100~230vAC
- Mains cable is detachable IEC design

Models:

ARM-PSU 4



Model:	ARM-PSU 4	
Weight	0.32Kgs	
Finish	Black	
Dimensions	Length:	120mm
	Width:	58mm
	Height:	35mm

CAP 002

line level pre-amplifier

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

- 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 terminal blocks for quick termination



Models:

CAP 002

Model:	CAP 002	
Frequency Response	80 - 20KHz	
Impedance	220Ω	
Power Requirements	12 /24v DC	
Finish	Satin Black	

PPA

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

- Switchable bass cut filter and switchable -10dB pad (Non-RF version only)
- Robust all-metal construction finished in Satin Black
- Terminated in Male 3 pin XLR and fitted with Male 3 pin Mini XLR connector
- Female Mini XLR cord plug also supplied



Models:
PPA
PPA-RF

PPM

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

- Input termination Male 3 pin Mini XLR
- Output termination Male 3 pin XLR socket
- Finished in Satin Black



Models:
PPM

CPPW 01

Phantom Power Adaptor for permanent installation.

- 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 Plastic case
CPPW 01-RF Aluminium case

PP 2

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

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



Models:
PP 2

CCRM 4000

The ceiling mounted retractable microphone has a wealth of benefits over traditional table mounted microphones. The table is left uncluttered, cables are now hidden in the ceiling and not under the conference room table, the audio from hanging microphones are superior to table mounted microphones as the height can be individually positioned according to the speaker thus allowing for greater signal with less ambient noise. The noise / vibration transmitted across the table from delegates naturally moving laptops or other objects around the table are eliminated by the use of hanging microphones. At the end of the conference the microphones retract back into the ceiling leaving the conference room unspoiled by table mounted microphones.

Features: single element microphone

- Single element motorised ceiling microphone with cardioid polar pattern for boardrooms, conferencing, courtrooms and other venues
- XLR Socket allows easy and fast connection of the audio to mixer or DSP, a 9-48V Phantom Power supply is required
- The retracta can be mounted either horizontally or vertically depending on space and fixing requirement
- Microphone cable length 2.5 metres
- Microphone is fitted with 350 degree rotation knuckle joint. High performance condenser microphone with cardioid polar pattern is fitted as standard
- Control ports allow DSP connection and daisy chain expansion to other units. A positive (2.5V to +12V) signal applied to the Main unit DSP control port will simultaneously activate all secondary retractas connected to the main unit
- IR remote control supplied with the main retracta to allow easy set-up and programming of the cable height
- The remote control can be used to activate the retracta in the absence of a DSP
- Wall or ceiling mounted IR sensor with integral LED (main unit only)
- A switch mode power supply (main unit only)
- A ceiling mounting kit is available
- Logic Hi / Lo for DSP mute detection port
- The ceiling bezel is fitted with an internal hall effect detection switch
- Two rotary 0-9 digital decimal switches accessed from the outside of the housing are used to set the Main (00) and 01-99 determines secondary designation
- Power Requirements 18VDC

Models: with pre-wired single element C3 microphone

- **CCRM 4000-M-RF** Main unit with Black microphone
- **CCRM 4000W-M-RF** Main unit with White microphone
- **CCRM 4000-SL-RF** Secondary unit with Black microphone
- **CCRM 4000W-SL-RF** Secondary unit with White microphone

Accessories

- **CCRM 4000-R** Remote control for CCRM 4000
- **CCRM 4000-IR** Infrared sensor for CCRM 4000
- **CCRM 4000-MB** Metal wall mounting brackets for CCRM 4000
- **PSU-018** 18V DC, 2A PSU for CCRM 4000



IR remote control



IR sensor









CCRM 4000/C 303-RF

Features: tri-element microphone

- Tri-element motorised ceiling microphone with three cardioid polar patterns covering 360° for boardrooms, conferencing, courtrooms and other venues
- Designed to capture 360 degree pickup
- RJ-45 socket complete with RJ-45 to phoenix connectors for fast connection to mixer or DSP. A 9-48 volt Phantom Power supply is required
- Patent pending 1109720.1
- Control ports allow DSP connection and link/daisy chain expansion to other CCRM 4000/C303 retracta units
- Up to 99 secondary units can be daisy chained to the main retracta
- Logic Hi / Lo for DSP mute detection port
- Main and secondary units are identical in construction. Two rotary 0-9 digital decimal encoders are used to set the main (00) and 01-99 determines secondary designation
- IR remote control or DSP
- IR remote control supplied with the main retracta to allow easy set-up and programming of the cable height
- The remote control can be used to activate the retracta in the absence of a DSP
- Wall or ceiling mounted IR sensor with integral LED supplied with main retracta

The CCRM is also available with a tri-element C303 microphone with a 9.14 metres drop (30 feet).
Model Number CCRM 4030

Models: With prewired tri element C303 microphone

- | | |
|--|---|
|  CCRM 4000-M-C303-RF | Main unit with Black microphone |
|  CCRM 4000W-M-C303W-RF | Main unit with White microphone |
|  CCRM 4000-SL-C303-RF | Secondary unit with Black microphone |
|  CCRM 4000W-SL-C303W-RF | Secondary unit with White microphone |
|  CCRM 4030-M-C303-RF | Main unit with 9.14m drop Black microphone |
|  CCRM 4030W-M-C303W-RF | Main unit with 9.14m drop White microphone |
|  CCRM 4030-SL-C303-RF | Secondary unit with 9.14m drop Black microphone |
|  CCRM 4030W-SL-C303W-RF | Secondary unit with 9.14m drop White microphone |



C 3S

suspended cardioid microphone

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

- 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
- Mounting plate option CP 73/73W

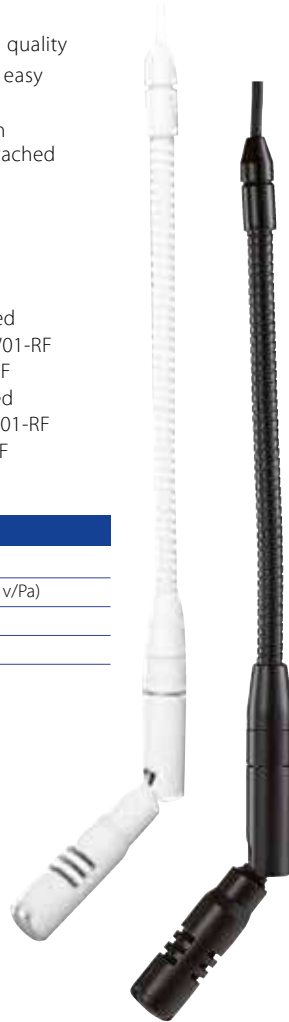
Models:

- C 3S** Black supplied open-ended
- C 3S-RF** Black supplied with CPPW01-RF
- C 3SE-RF** Black supplied with PPA-RF
- C 3SW** Ivory supplied open-ended
- C 3SW-RF** Ivory supplied with CPPW01-RF
- C 3SEW-RF** Ivory supplied with PPA-RF

Model:	C 3S Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N ratio	69dB(A)
Power Requirements	9 ~ 48v Phantom Power



- Includes W 2 windshield



C 8S

suspended hypercardioid mini shotgun microphone

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

- 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
- Mounting plate option CP 73/73W

Models:

- C 8S** Black supplied open-ended
- C 8S-RF** Black supplied with CPPW01-RF
- C 8SE-RF** Black supplied with PPA-RF
- C 8SW** Ivory supplied open-ended
- C 8SW-RF** Ivory supplied with CPPW01-RF
- C 8SEW-RF** Ivory supplied with PPA-RF

Model:	C 8S Series
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N ratio	69dB(A)
Power Requirements	9 ~ 48v Phantom Power



- Includes W 8 windshield



C3S and C8S Available Options:

XLR-PPA

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



CPPW01-RF

Phantom Power Adaptor for permanent installation.



Open ended (C 3S and C 8S)

Terminated with an open ended 7.5m cable. Requires PPA

Ceiling plates

C 3S(W)-RF and C 8S(W)-RF come supplied with C3100 ceiling plate (Black shown)

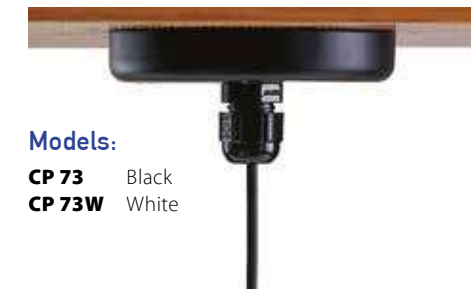
Models:

- C 3S-RF-CP** Black
- C 3SW-RF-CP** White
- C 8S-RF-CP** Black
- C 8SW-RF-CP** White



CP 73

Available in black or ivory versions, this ceiling mounting plate is for use with our C 3S and C 8S suspended microphones.



Models:

- CP 73** Black
- CP 73W** White

C 303-RF

tri-element suspended microphone array

Tri-element array hanging microphone designed for unobtrusive all round high quality pickup necessary in places such as boardrooms, conferencing, court rooms and other venues.

- Response optimised for consistent sound quality
- Made in high quality brass and finished in Satin Black or White with 7.5m of cable attached
- RJ-45 terminated ceiling-mounted enclosure (supplied) features Phantom Power Adaptor and cable gland



Models:

- 🌐 **C 303-RF** Black
- 🌐 **C 303W-RF** White

Model:	C 303-RF
Type	Condenser
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N ratio	69dB(A)
Power Requirements	9 ~ 48v Phantom Power
Termination	RJ-45 to Phoenix

C 007 Series

'Button' boundary microphone

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.

- 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 007-WR**
- 🌐 **C 007E-RF**
- 🌐 **C 007E-LED-RF**

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 required for LED version)
Switchable Bass Filter & -10dB Switchable Pad	-	✓	-
S/N Ratio	40dB(A)	40dB(A)	40dB(A)
Termination	Open-ended	Male 3 pin XLR	Male 3 pin XLR with PPA-RF

SEC 07

Designed for security and surveillance applications. Offering easy mounting to walls or ceilings the SEC 07 has the appearance of an ordinary fire detector. Electronics housed within the SEC 07 utilises convenient screw terminals, eliminating the need for connectors.

- Omni-directional
- Built-in line level pre-amp
- Selectable sensitivity switching
- 9-48V Phantom Power switchable for 12-24V dc operation
- Pick up range of 15m (50ft)
- Red LED status indicators
- Sturdy ABS housing
- Easy to install
- Universal mounting to electrical conduit boxes



Model:	SEC 07
Frequency Response	50Hz ~ 12KHz
Impedance	75Ω
Sensitivity	-42.5dB +/- 3dB @ 1 KHz (0dB = 1 V/Pa)
Current Consumption	40mA
Dimensions	Height: 45 mm Diameter: 100 mm Weight: 126g

TIM-1000

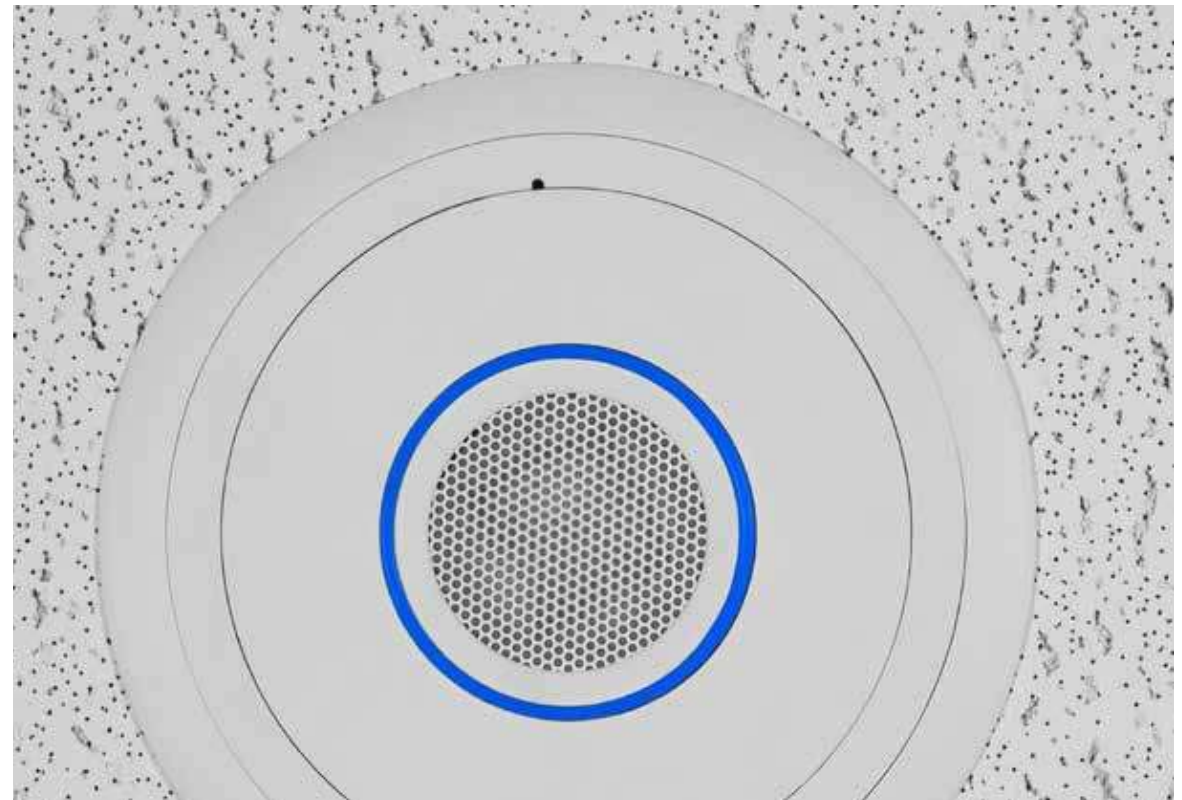
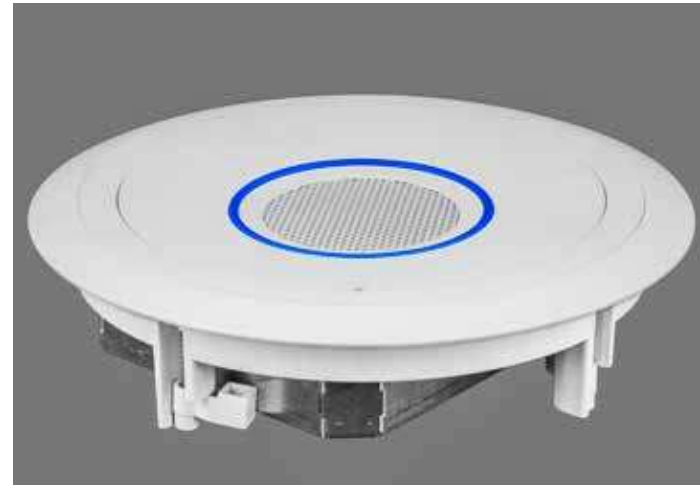
The Tracking Intelligent Microphone (TIM) breaks the mould for ceiling microphones. Designed for use in AV conference and huddle room applications. Low profile ceiling microphone with tracking ability and Adaptive Proximity Tracking Technology (APT). TIM tracks participants and follows them anywhere in the room while the APT constantly adjusts their levels. Other features include noise suppression, 3-band EQ, intuitive GUI, and an RGB ring for visual room status. Powered over ethernet, the device utilises API control via UDP commands and comes with separate control and audio paths. Single audio channel output to Dante & AES67 networks. Designed for use in AV conference and huddle room applications. The microphone is constructed with UL 2043 rated plastics and aluminium shell.

- Tracks meeting participants within a room
- APT technology for best possible sound output
- Eliminates unwanted steady state noise e.g. air conditioning, projectors.
- Built-in equalizer
- Supports DANTE and AES67
- Intuitive GUI through standard web browser
- Powered over Ethernet (PoE+)
- Separate control and data paths for added security
- API commands via UDP
- Easy setup and install
- Finished in White

Models:

- **TIM-1000-CM** Ceiling Mount version
- **TIM-1000-PM** Pole Mount version

Model:	TIM-1000-CM
Type	Condenser microphone array
Operating Temperature	0 to 40 deg C
Storage Temperature	minus 20 to 60 deg C
Power Requirements	8W (42~57VDC, POE+, IEEE 802.3at)
Termination	RJ 45
Wiring Connections	shielded CAT 5e or better
Supplied Accessories	Suspension kit
Finish	White
Weight	1.35Kg (3lbs)
Dimensions	Diameter: 270mm (10.63") Height: 75mm (2.95")



C 303-D

tri-element suspended microphone array

The C303-D extends the use and allows the tri-element array to be available via Dante and AES67 enabled interfaces. Supporting POE, the C303-D is also capable of driving a programmable RGB LED in the ceiling rose.

Supporting PoE, Dante & AES67, the C303-D tri-element array hanging microphone is designed for unobtrusive all round high quality pickup necessary in places such as boardrooms, conferencing, court rooms and other venues

- Supports Dante and AES67 Network out for easy connection to a compatible DSP
- POE powered
- Contains 3 high sensitivity cardioid capsules
- Designed to capture 360 degree pickup
- Includes a ceiling enclosure and ceiling rose with RGB LED ring indicator
- Supplied with 2.5 metre microphone cable
- Easy installation
- Finished in Satin Black or Gloss White
- Uses same microphone as C 303-RF

Models:

- **C 303-D** Black
- **C 303W-D** White

Model:	C 303-RF
Type	Condenser
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-37dB ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	200Ω
S/N ratio	69dB(A)
Power Requirements	POE
Termination	RJ-45



CDT 100 MK3

Dante transporter

The Clockaudio Dante Transporter is an advanced professional Dante communication product which combines audio and control transport using network based Dante protocol. By taking advantage of the Dante technology and based on the high performance and pre-configurable hardware platform, this product transfers audio and control signals via widely used Ethernet and is able to guarantee perfect sound quality.

This product has a variety of uses including, but not limited to, boardrooms, conference rooms, video conference rooms and any place where multiple table microphones and control devices are connected back to the AV equipment cabinet.

- Easy to install with under table mounting
- Audio and control signals transported over Dante
- 4 audio inputs with variable gain control and high pass filter, multiple units may be daisy chained (maximum of 6 units on a single CAT-5)
- Supports 1 Gbps data transmission speeds
- Provides Phantom Power for each mic input
- 4 control inputs compatible with Clockaudio devices including: direct connection to TS 005 RGB, TS 003 RGB, CRM 200S-RF RGB series, CS-S-RF RGB series, SM 80S and S 80S. Separate ARM-C port
- Open API for interfacing with Control Systems
- Compatible with any Dante or AES67 capable audio DSP or other Dante enabled device and most logic control systems
- Easy use with mono or stereo inputs
- Dual mono or stereo outputs
- Power supply for the CDT-100 is sold separately

Model: CDT 100

Input Type	Balanced and RF filtered
Gain	Variable (7-40dB) with fixed gain setting
Input impedance	2.5K ohms
Phantom Power	+48V, software selectable
EIN	-122dBu
System THD+N	<0.005% at any gain, input signal 3dB below maximum
Physical Level	Standard Ethernet
Connector	RJ-45
Cable Quality	CAT5e, CAT6 (Shielded recommended)
Transmission speed	1 Gbps

Dante[®]
AES67



CUI-2

The Clockaudio USB Interface (CUI-2) enables virtually any of the Clockaudio range of microphones to be used as a solution to meet the needs of a remote worker. Providing input for up to two microphones, excellent built-in pre-amp, RGB LED switch buttons and together with a host of setup features, it is well positioned to deliver the highest level of audio.

CUI-2 is ideally suited for any application where the user can only connect a mic via a USB interface e.g. a laptop, desk computer, tablet. Whether you are a day-trader, yoga instructor, podcaster, gamer, or a business professional trying to conduct business, the CUI-2 provides professional audio quality when working remotely.

- USB stereo microphone preamp interface
- USB bus powered, 24-bit/48kHz, Plug-and-Play driverless with PC, Mac & others
- Easy to install and mounts under desk or table with two screws
- Low noise design, optimised for Clockaudio microphones
- 10-50dB gain control
- 48V Phantom Power
- Touch switch port for use with Clockaudio capacitive touch switches
- LED brightness control
- RGB colour selection for mute and unmute
- Latching Mute and Push to Mute modes
- VU metering for microphone gain setup via TS buttons
- Demo mode plays audio test tone to USB input and RGB colour show
- Compact aluminium enclosure with flange mounts
- Tamper resistant front cover included
- Optional 12V external supply



Model:	CUI-2
Audio Specifications	
Input Type	Balanced and RF filtered
Gain	Variable, 10-50dB
Input Impedance	2.5K ohms
Phantom Power	48V, always on
System THD+N	<0.01% at any gain, input signal 3dB below maximum
Frequency Response	20Hz - 20kHz, +/- 1dB @ 40dB Gain
General Specifications	
TS Control Device Input	RJ45, interfaces with Clockaudio TS-C1 and Clockaudio Touch Switches
Power Consumption (USB type B)	2W
Max Product Dimensions	129mm (5.07") x 85mm (3.35") x 37mm (1.44")
Unit Weight	227g (0.5 lbs)
Packaged Weight	363g (0.8 lbs)

C 600

slimline condenser microphone

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

- 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	-37dB \pm 3dB at 1KHz (0dB=1v/Pa)
Impedance	200 Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB Switchable Pad	✓
S/N Ratio	69dB(A)
Termination	Male 3 pin XLR

C 650E

cardioid condenser handheld microphone

Professional condenser handheld microphone designed for vocal and speech applications.

- Rugged metal construction
- Wide response
- Shock mount suspension
- Balanced output
- Finished in Black Nextel



Models:

C 650E



- Includes SA 5 clip

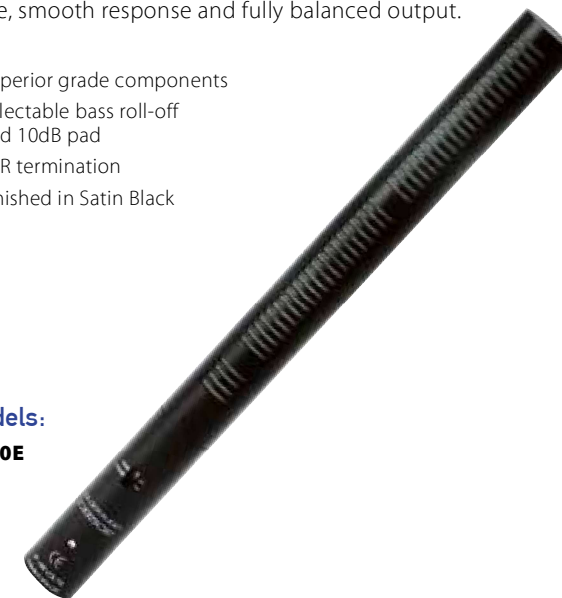
Model:	C 650E
Frequency Response	50Hz ~ 20KHz
Sensitivity	-48dB \pm 3dB @ 1KHz (0dB=1v/Pa)
Impedance	200 Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB switchable Pad	✓
S/N Ratio	70dB(A)
Termination	Male 3 pin XLR

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.

- 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 \pm 3dB @ 1KHz (0dB=1v/Pa)
Impedance	200 Ω
Power Requirements	9 ~ 48v Phantom Power
Switchable Bass Filter & -10dB switchable Pad	✓
S/N Ratio	70dB(A)
Termination	Male 3 pin XLR

D 700

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.

- Rugged die-cast metal construction
- Cardioid polar pattern
- Wide, smooth response
- Balanced output
- Finished in Satin Black



Models:

D 700



- Includes SA 5 clip

Model:	D 700
Frequency Response	50Hz ~ 18KHz
Sensitivity	-73dB ±3dB @ 1KHz (0dB=1V/Pa)
Impedance	300Ω balanced
Termination	Male 3 pin XLR

D 700S

dynamic supercardioid microphone

Optimised for speech and musical instruments.

- Rugged die cast metal construction
- Supercardioid polar pattern
- Wide smooth frequency response
- Neodymium magnet
- Balanced output
- Silent magnetic on-off reed switch
- Inbuilt shock mount for superior low handling noise
- Terminating with Male 3 pin XLR
- Supplied with swivel stand adaptor
- Finished in low reflective Satin Black



- Includes SA 5 clip

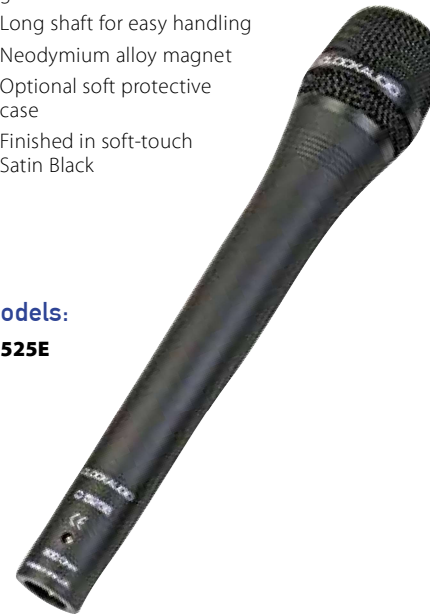
Model:	D 700S
Frequency Response	50Hz ~ 18KHz
Sensitivity	-73dB +/- 3dB @ 1KHz (0dB = 1V/Pa)
Impedance	300Ω
Termination	Male 3 pin XLR

D 525E

dynamic supercardioid ENG microphone

Designed for electronic news gathering and video production.

- 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 a 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.

- High sensitivity Neodymium alloy magnet
- 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 a clip

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

CAK 1-RF

Phantom Power Adaptor with knuckle joint and Female 3 pin Mini XLR connector. Short microphone holder designed for fast connection of condenser microphones requiring Phantom Power Adaptor. Constructed from high quality brass. A knuckle joint provides horizontal rotation and vertical adjustment. A Mini XLR connector is fitted at the top of the joint for mating with Clockaudio modular capsules.

- Constructed from high quality brass
- Knuckle joint allows horizontal rotation and vertical adjustment
- Mini XLR termination for connection to Clockaudio modular capsules
- Integral Phantom Power Adaptor with balanced output for electret condenser microphones
- Phantom Power Adaptor provides immunity from RF interference (RFI) from GSM/2G, 3G, 4G & 5G devices and is terminated with a Male 3 pin XLR
- Impedance 200 Ohms
- Finished in Satin Black
- Also available in Nextel Suede Coating finishes (custom orders only)

Models:

 **CAK 1-RF**





CA 700-RF/ CA 900-RF

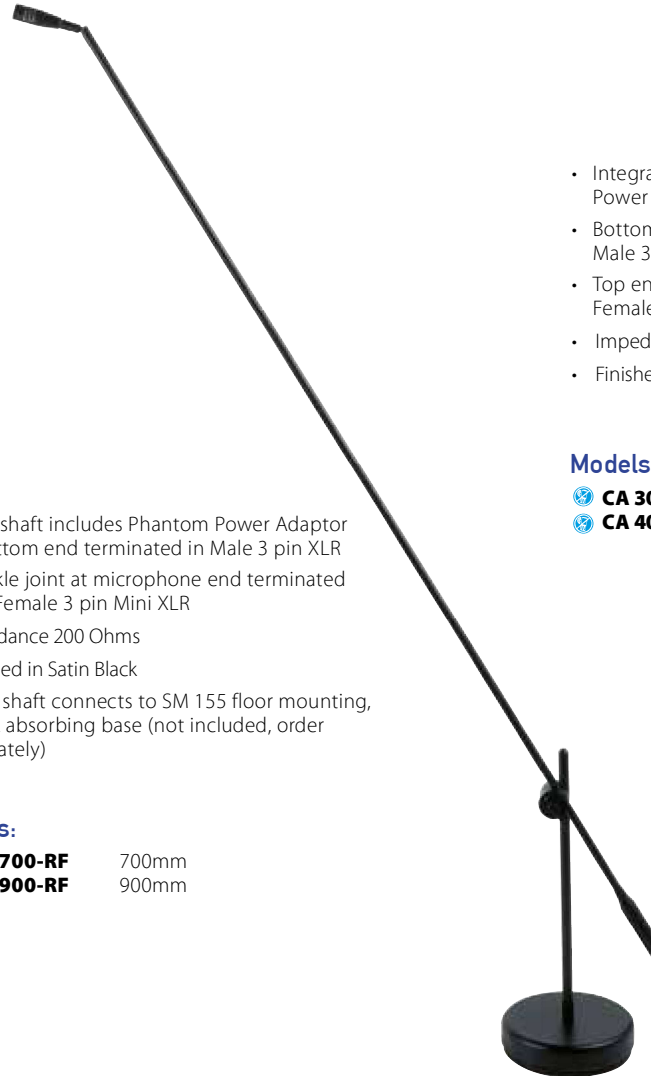
floor standing long shafts

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.

- Long shaft includes Phantom Power Adaptor at bottom end terminated in Male 3 pin XLR
- Knuckle joint at microphone end terminated with Female 3 pin Mini XLR
- Impedance 200 Ohms
- Finished in Satin Black
- Short shaft connects to SM 155 floor mounting, shock absorbing base (not included, order separately)

Models:

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





CA 30/CA 40-RF

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 Female 3 pin Mini XLR.

- Integrated Phantom Power Adaptor
- Bottom end terminated with Male 3 pin XLR
- Top end terminated with Female 3 pin Mini XLR
- Impedance 200 Ohms
- Finished in Satin Black

Models:

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



S 750

Table microphone base fitted with knuckle joint and Female 3 pin Mini XLR 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



SM 110

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

- 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 5

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

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



SA 3

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

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



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



SM 10

Low profile through-table shock mount fitted with Female XLR input and Male XLR output. Compatible with all Clockaudio gooseneck microphones.

Models:

- SM 10** 3 pin XLR
- SM 10x5** 5 pin XLR



Model: SM 10

Height Above Surface	36mm
Diameter	31mm
Body Diameter	20mm
Depth Below Surface	64mm
Mounting hole	23.5mm

SM 20-RF

A low profile, through-table shock mount fitted with RF-Immunity PPA with Male 3 pin Mini XLR input connector.

- M20 threaded nut supplied
- Made in high quality brass
- 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 74 mm diameter through-table shock mount 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.

- 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
- SM 75 -10** 10mm screw fitting

Model: SM 75

Height	32mm
	64mm including XLR
Base Diameter	75mm

SM 80

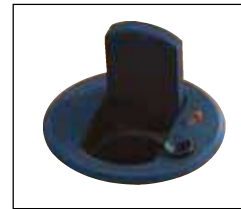
A low profile, table-mounted shock mount fitted with flip cover to conceal connector when closed.

- 3 pin & 5 pin XLR connector versions available
- Finished in Black Nextel or Satin Nickel
- RF option also available (Male 3 pin Mini XLR)



Base Models:

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



- SM 80S model with remote momentary or latching switch facility and bi-colour LED

Model: SM 80 Series

Height Above Surface	2mm
Diameter	58mm
Body Diameter	50mm
Body Below Surface	XLR version 61mm
	RF version 166mm

S 80S

Low profile through-table shock mount suitable for use with C 003/C 004/C 011 and C 012.

- Low profile
- Bi-Colour LED to confirm status
- Latching or Push to Talk Switch



Model: S 80S

Height Above Surface	2mm
Diameter	58mm
Body Diameter	50mm
Body Below Surface	XLR version 61mm

SM 93 & SM 95

Low profile, recessed, shock absorbing microphone base.

- 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

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

S 133, S 135, S 140, S 155 & S 157

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

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



Models:

- S 133-RF** 3 pin XLR in, 3 pin XLR out
- S 135-RF** 3 pin XLR in, 5 pin XLR out
- S 140-RF** 3 pin mini XLR in, 5 pin XLR out with integrated PPA
- S 155-RF** 5 pin XLR in, 5 pin XLR out (for use with Halo microphones)
- S 157-RF** 5 pin XLR in, 7 pin XLR out (for remote switching)



Model:	S 133 / S 135 / S 140 / S 155 / S 157
Switching	Touch pad fully programmable for PTT, PTM & Latching modes
Indication	Red LED
Power Requirements	48v Phantom Power
Dimensions	Length: 120mm Width: 100mm Height: 32mm (60mm with XLR)
Weight	0.64kg

S 120

Table microphone base fitted with M10 screw thread mounting hole.

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



Models:

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

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

S 120X Series

Table microphone base fitted with XLR connector.

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



Models:

- S 120X** 3 pin XLR
- S 120XS Latch** 3 pin XLR, latching switch
- S 120XS PTT** 3 pin XLR, PTT switch
- S 120X5** 5 pin XLR
- S 120X5 Latch** 5 pin XLR, latching switch
- S 120X5 PTT** 5 pin XLR, PTT switch

All models also available pre-wired with 2 metres of cable

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

CW 8000

wireless microphone system

- UHF PLL True Diversity System with an operating range from 200 to 480 metres subject to local regulations
- Frequency range 502 - 960MHz
- 3,000 selectable channels across 75MHz
- 6 pre-set groups each of up to 40 compatible channels
- Automatic space scanning function
- Squelch mute and tone key
- Antenna boost power provided for various external antennas
- Adjustable transmission power between 10mW and 50mW



Model:	CW 8000R
FM Carrier	UHF PPL
Frequency Range	502-960MHz according to local regulations
S/N Ratio	>105dB
T.H.D	<0.6%@1KHz
Display	LCD
Display Contents	Frequency, Antenna A/B, Mute Display RF/AF Level Meter, Battery Level Gauge, ID Number
Controls	Power On/Off, Frequency Up/Down, Frequency Scan, Audio Level Lock-on, ID Pairing
Audio Output	- 12dB
AF Output Impedance	600 Ω
Squelch	Pilot tone and Noise mute
Output Connector	XLR Balanced Socket/6.3mm Unbalanced phone jack
Operating Voltage	100-240 VAC
Dimensions	Width : 212mm (8.3") Height: 44mm (1.7") Depth: 213.9mm (8.42")



Model:	CW 8000
FM Carrier	UHF PPL
Frequency Range	502-960MHz according to local regulations
RF Output	10mW/50mW Switchable
Stability	± 10 KHz
Frequency Deviation	± 48 KHz
Display	LCD
Display Contents	Frequency, Battery Level Gauge, ID Number
Spurious Emissions	<-50 dBC
Audio Frequency	50Hz - 16.5KHz
Battery	2 x AA 1.5V



Model:	CW 8001
FM Carrier	UHF PPL
Frequency Range	502-960MHz according to local regulations
RF Output	10mW/50mW Switchable
Stability	± 10 KHz
Frequency Deviation	± 48 KHz
Display	LCD
Display Contents	Frequency, Battery Level Gauge, ID Number
Controls	Power On/Off, AF Level Frequency Up/Down, Lock-on Mode, ID Pairing
Spurious Emissions	<-50 dBC
Audio Frequency	50Hz - 16.5KHz
Battery	2 x AA 1.5V

CW 7000

wireless microphone system

- UHF PLL True Diversity System with an operating range from 200 to 480 metres subject to local regulations
- Frequency range 502 - 960MHz
- 1,441 selectable channels across 36MHz
- 6 pre-set groups each of up to 23 channels
- Automatic space scanning function
- Squelch mute and tone key
- Antenna boost power provided for various external antennas
- Adjustable transmission power between 10mW and 50mW



Model: CW 7000R

FM Carrier	UHF PPL
Frequency Range	502-960MHz according to local regulations
S/N Ratio	>105dB
T.H.D	<0.6%@1KHz
Display	LCD/LED
Display Contents	Frequency, Antenna A/B. Mute Display LED Meter, Battery Level Gauge
Controls	Power On/Off, Frequency Up/Down, Frequency Scan, Audio Level, Lock-on
Audio Output	- 12dB
AF Output Impedance	600 Ω Noise Mute
Squelch	Pilot Tone and Noise Mute
Output Connector	XLR Balanced Socket/6.3mm Unbalanced phone jack
Operating Voltage	100-240 VAC
Dimensions	Width: 212.3mm (8.36") Height: 38.3mm (1.51") Depth: 144mm (5.7")

Model: CW 7000

FM Carrier	UHF PPL
Frequency Range	502-960MHz according to local regulations
RF Output	10mW/50mW Switchable
Stability	±10KHz
Frequency Deviation	±48KHz
LCD Display	Frequency, Battery Level Gauge
Controls	Power On/Off, Mode Setting, AF Level Frequency Up/Down, Lock-on Mode
Spurious Emissions	<-50 dBC
Audio Frequency	50Hz - 16KHz
Battery	2 x AA 1.5V

Model: CW 7001

FM Carrier	UHF PPL
Frequency Range	502-960MHz according to local regulations
RF Output	10mW/50mW Switchable
Stability	±10KHz
Frequency Deviation	±48KHz
Display	LCD
Display Contents	Frequency, Battery Level Gauge
Controls	Power On/Off, AF Level Frequency Up/Down, Lock-on Mode
Spurious Emissions	<-50 dBC
Audio Frequency	40Hz - 18KHz
Output Connector	4 Pin Mini XLR
Battery	2 x AA 1.5V

Wireless Accessories



- **AA 8000**

Antenna Distribution Amplifier

- Routes antenna signals from 2 antenna to several receivers in a multi-channel system
- Amplifies RF signals



- **CW 7000C**

Interchangeable Condenser Microphone Head



- **UDA 8000**

Directional Antenna



- **USP 8000**

Antenna Splitter



- **UOA 8000**
Omni-directional Antenna provides consistent reception across 470-960 MHz

- **AB 9000**
Antenna Booster



- **AEP 9000**
Antenna Extension Panel



- **RRM9000/RCP9000**
Rack mount for CW 7000 with half rack blanking plate
- **RM10**
Rack mount for CW 8000

Model:	AA 8000
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

Model:	CW 7000C
Type	Condenser (Back Electret)
Polar Diagram	Cardioid
Frequency Response	60Hz ~ 18KHz
Impedance	400Ω
Sensitivity	-50dB (0dB=1v/Pa)

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

Model:	UDA 8000
Frequency Band	470 ~ 960MHz
Effective working angle	100°
Antenna Gain	10dBi
Booster Gain	3dB /10dB selectable
Power Supply	12v DC 50mA

Model:	UOA 8000
Frequency Band	470 ~ 960MHz
Polar Pattern	Omni-directional

Model:	USP 8000
Frequency Band	470 ~ 960MHz
RF Carrier Frequency range	10-1000 MHz
VWSR	1.2 (Voltage Wave Standing Ratio)
Impedance	50 Ω
Isolation	20dB
Insertion Loss	2dB
One BNC In and two BNC out connectors	

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.

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



Models:
CTH 100

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 2.2k Ω
Bias Voltage	2.5 ~ 6v DC
Output Impedance	900 Ω
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-40°C ~ +70°C
Weight	0.05kg

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

CL 6

lavalier cardioid condenser microphone

Miniature high performance, cardioid lavalier condenser microphone designed for a wide range of "hands free" broadcasting and pro audio applications. Also useable for sound reinforcement on string instruments. Wide range smooth response. Useable with most power modules and wireless transmitters. Finished in Black with 1.5 metres (59.6") of cable attached, matching windshield and tie clip included.

- Lavalier back electret condenser microphone
- Terminating with a Female 4 pin Mini XLR connector
- Supplied with tie clip and foam windshield
- Cardioid polar pattern

Models:
CL 6



Model:	CL 6
Type	Condenser (Back Electret)
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 16KHz
Sensitivity	-44dB \pm 3dB @ 1 KHz (0dB = 1 v/Pa)
Impedance	1K Ohms
Power Requirements	5v Bias Voltage
Termination	Female 4 pin Mini XLR connector.
Supplied Accessories	Tie clip and foam windshield.

CMH 2000

micro lightweight headworn boom microphone

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.

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



Models:
CMH 2000

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	Female 4 pin Mini XLR connector

HW 1600

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.

- Plastic injected headband, gooseneck and capsule head for protection against corrosion
- Flexible boom arm for optimum positioning of microphone
- Highly flexible cable remains supple under long exposure of perspiration and/or cosmetics



Models:
HW 1600



- Includes W 2 windshield

Model:	HW 1600
Microphone	Condenser
Polar Pattern	Super cardioid
Frequency Response	100Hz ~ 15KHz
Sensitivity	-40db ±3dB @ 1KHz (0dB=1v/Pa)
Impedance	1KΩ
Power Requirements	1.5 ~ 9v (standard operating voltage 1.5v)
Termination	Female 4 pin Mini XLR connector

HW 1200

lightweight headworn boom microphone

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



- Includes W 12 windshield

Models:
HW 1200



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	Female 4 pin Mini XLR connector

H 500

monitor headphones

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

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



Models:

H 500

Model:	H 500
Type	Dynamic closed-back circumaural
Sensitivity	96dB SPL \pm 3dB @1mw
Frequency	15Hz ~ 22KHz
Max Input Power	500mw
Impedance	24 Ω
THD	<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



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.

- 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
- Internal batteries
- Charger supplied
- Finished in Cobalt Blue Nextel with black trim

Models:

AH 3000



HS 1000 Series

communications headset with dynamic or condenser microphone

The HS 1000 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.

- 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:	AH 3000
Headphones	Micro dynamic
Design	Circumaural
Frequency Response	20Hz ~ 18KHz
Sensitivity	104dB ±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	300Ω	1.6KΩ
Powering		1.5 ~ 9v DC through series resistor
Cable Length	2m	2m
Weight	0.5kg	0.5kg

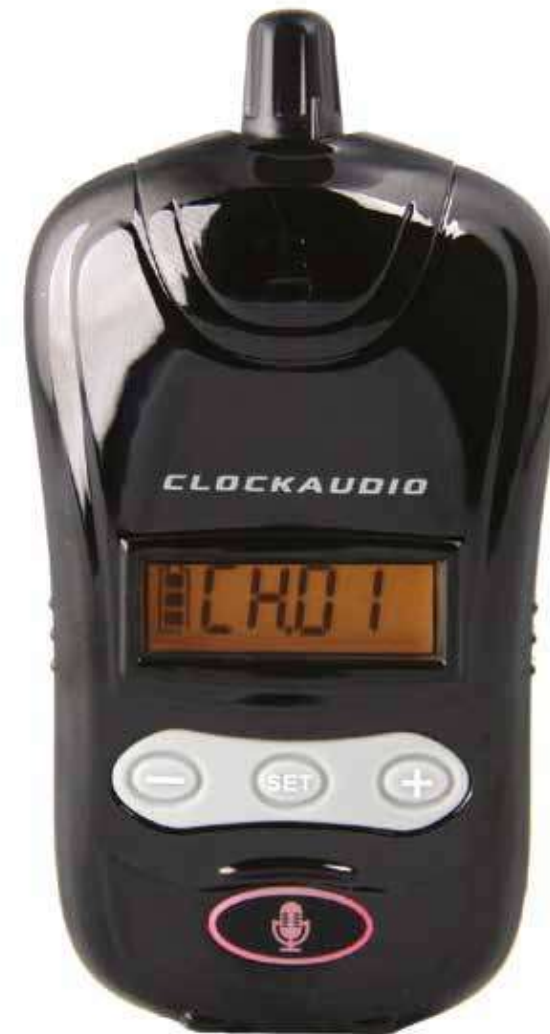
Guided Tour System

A licence-free (UK only) system of lightweight, 32 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. 32 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.

- UHF PLL Licence-free
- 32 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 lithium rechargeable batteries giving up to 20 hours use on full charge
- Intelligent chargers for 2, 10, 20 and 30 units
- Accessories available - lanyard and disposable ear pads



• **GT 400T** - Belt Pack Transmitter



• **GT 400R** - Receiver

Model:	GT 400R	GT 400T
Includes	Ear piece	Omni-directional Condenser Microphone
System FM Carrier	UHF PLL Synthesized	UHF PLL Synthesized
Frequency Range	UHF 863 ~ 870MHz	UHF 863 ~ 870MHz
Channel Frequencies	32 Pre-programmed switchable	32 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	Lithium batteries averaging 20 hours use on full charge	Lithium batteries averaging 20 hours use on full charge



• **DC 430** - Charging Flight Case
(Transmitters sold separately)



Model:	DC 430 Charging Flight Case
Capacity	30 (receiver or transmitter belt style only)
Indicator LED	Red charging, green fully charged
Charging Current	120mA
Charging Time	Lithium 4 hours
Charging Control	PWM (timer power OFF detector)

DC 402 2 Unit Desktop Charger (for hand held or belt style transmitter / receiver)
DC 430 20 Unit 19" Rack Mounted Charger in fitted flight case



• **DC 402** - 2 unit desktop charger

Model:	GT 420T	GT 520T
System FM Carrier	UHF PLL Synthesized	UHF PLL synthesized
Frequency Range	UHF 863 ~ 870MHz	UHF 863 ~ 870MHz
Channel Frequencies	32 Pre-programmed switchable	32 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 420T** - Handheld Transmitter



• **GT 520T** - Transmitter





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 MR 88 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.

- 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:	50 Ω
	Pre-Amp Out:	560 Ω
Max Input Level	Mic Level:	-23dBv
	Line Level:	+16dBv
Max Output Level		+19dBv
Nominal Output Level at 0dBv on Meter	Pre-Amp Out:	-10dBv
	Balanced:	-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

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 than usual level 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.



CLF 100 Flush Mount Loudspeaker

Visitor loudspeaker 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.

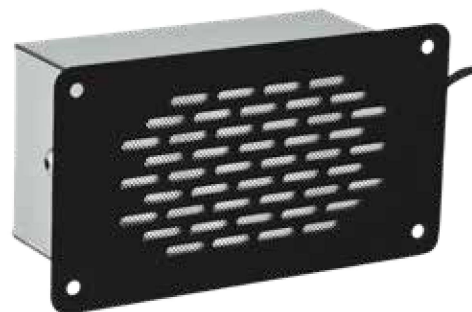
Visitor loudspeaker unit CLF 100 is part of the security system allowing speech through security windows and screens. The CLF 100 visitor unit is constructed from steel and is part of a full duplex two-way communication system with the CSU 100 staff unit. The CLF 100 is a flush mount loudspeaker that can be recessed into a wall or counter top. Elliptical paper cone loudspeaker.

CLS 100 Surface Loudspeaker

Visitor loudspeaker unit CLS 100 is a surface mount loudspeaker that can be fixed on a counter top, part of the security system allowing speech through security windows and screens. The CLS 100 visitor unit is constructed from steel and is part of a full duplex two-way communication system with the CSU 100 staff unit.

Both of the above loudspeakers must be used in conjunction with the amplifier unit CA 100, and visitor microphone CMF/L 100 and CSU 100 staff control unit.

Model:	CLF 100	CLS 100
Frequency Response	180Hz~16KHz	180Hz~16KHz
Impedance	4 Ohms	4 Ohms
Maximum SPL	85dB at 1 KHz 1% THD	85dB at 1 KHz 1% THD
Power Requirements	5 Watts	5 Watts
Finish	Matt Black	Matt Black
Dimensions	Height Above Surface: 2mm (0.1") Width: 65mm (2.6") Length: 120mm (4.8") Height Below Surface: 45mm (1.8")	Height: 75mm (3") Width: 60mm (2.4") Length: 98mm (3.9")



For ease of fitting, the visitor loudspeaker and microphone units use the same design steel housing.



CMF 100 Flush Mount Condenser Microphone

Visitor microphone fitted 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.

Visitor flush mount electret condenser microphone unit CMF 100 is a part of the security system allowing speech through security windows and screens.

The CMF 100 visitor unit is constructed from steel and is part of a full duplex two-way communication system with the CSU 100 staff unit. The CMF 100 is a flush mount microphone that can be recessed into a wall or counter top.

CMS 100 Surface Condenser Microphone

Visitor surface mount back electret condenser microphone unit CML 100 is a part of the security system allowing speech through security windows and screens. The CMS 100 visitor surface mount unit is constructed from steel and is part of a full duplex two-way communication system with the CSU 100 staff unit.

Both of the above microphones must be used in conjunction with the amplifier unit CA 100, and visitor loudspeaker CLF/S 100 and CSU 100 staff control unit.

Model:	CMF 100	CMS 100
Polar Pattern	Cardioid	Cardioid
Frequency Response	50Hz ~ 18KHz	50Hz ~ 18KHz
Sensitivity	-47dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)	-47dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)
Impedance	1.8K Ohms	1.8K Ohms
Maximum SPL	125dB at 1 KHz 1% THD	125dB at 1 KHz 1% THD
Power Requirements	1.5 ~ 9v Phantom Power	1.5 ~ 9v Phantom Power
Finish	Matt Black	Matt Black
Dimensions	Height Above Surface: 2mm (0.1") Width: 65mm (2.6") Length: 120mm (4.8") Height Below Surface: 45mm (1.8")	Height: 75mm (3") Width: 60mm (2.4") Length: 98mm (3.9")

CSU 100 Staff Control Unit

Staff control unit for the Communicator 2-way security system allowing speech through security windows and screens. The CSU 100 Staff control is constructed from steel and has full duplex two-way communication with the visitor unit. The Staff unit has a combined loudspeaker with a gooseneck microphone offering high quality speech reproduction. A staff mute switch also ensures that visitors are unable to hear the operator in confidential conversations.



Must be used in conjunction with the amplifier unit CA 100, visitor loudspeaker unit CLF / CLS 100 and visitor microphone CMF / CMS 100.

Model:	CSU 100
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18KHz
Sensitivity	-47dB ± 3dB @ 1 KHz (0dB = 1 v/Pa)
Impedance	1.8K Ohms
Maximum SPL	125dB at 1 KHz 1% THD
Power Requirements	1.5 ~ 9V Phantom Power
Finish	Matt Black
Dimensions	Height: 75mm (3") Width: 60mm (2.4") Length: 98mm (3.9")

CA 100 Audio and Induction Amplifier

2 Channel Audio and Induction Loop Amplifier is the control centre of the Communicator and provides full open duplex communication. For use in areas that requires consistently safe communication between secure places.

- 2 channel audio and induction loop amplifier for the Communicator security system
- Contains press button controls for Staff / customer loudspeaker audio output
- Adjustments for Staff / customer microphone settings
- The amplifier has feed available for the connection of a magnetic loop inductance unit
- Power is via 110~230vAC – 12vDC adaptor
- Front panel contains led status bar
- Connections to / from the unit is via screw plug Phoenix connector.
- Finished in Matt Grey



CILA 100

The CILA 100 Induction loop coil will allow users with hearing aids having a T facility to hear clearly information being relayed by the CA 100 security system.

- Plugs into the CA 100 security system amplifier
- Induction range up to 1 metre square area
- The loop antenna can be fixed discretely underneath a table and comes supplied with 5.5 metre long cable



CPS 100 Power Supply

12vDC Power supply for the Communicator Security system.

- Plug in 12v Power Adaptor for CA 100
- Detachable mains cable
- DC cord length 1.7 metres terminating in a 2.1mm DC socket
- Adaptor is switched mode and can be connected to mains voltages 50~60Hz - 100~230vAC
- Green power LED illuminates to indicate Power ON

Model:	CPS 100
Weight	0.30Kg
Finish	Black
Dimensions	Height: 35mm Width: 50mm Length: 94mm



CILP 10

A free standing portable induction loop system used to provide audible communication for people wearing a hearing aid with the "T" facility.

- Made from robust ABS plastic material
- Maximum 1.2m coverage
- Quick and simple to set up
- Rechargeable batteries included
- Battery charger is supplied that can also give continuous use
- LED indicators provide visual confirmation of battery status and speech operation



Model:	CILP 10
Power	Rechargeable 12V internal battery
Battery Life	~24 hours
Microphone	Condenser (back electret)
Polar pattern	Omn-directional
External Mic. Connector	2.5mm jack plug socket (C006 Boundary Layer recommended)
Power Adaptor Connection (12V)	2.1mm jack plug socket
Dimensions	250mm x 275mm x 110mm
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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