



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.

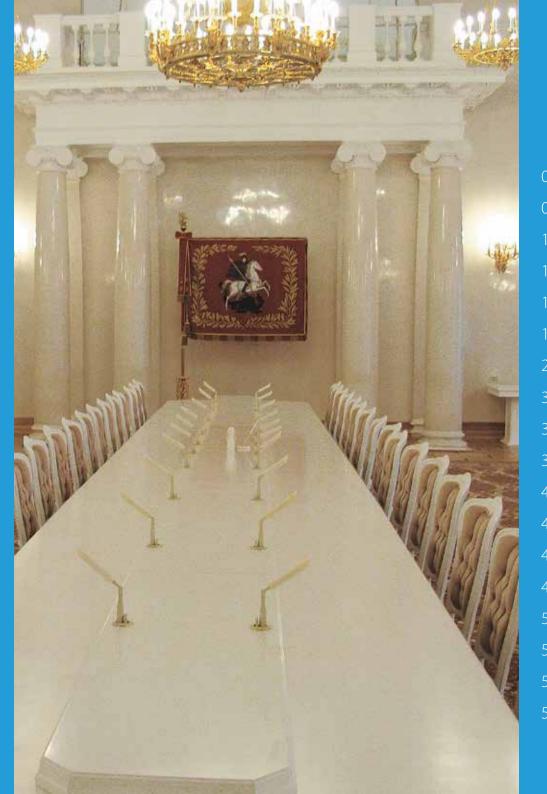
The ability to customise is just one of the many factors which makes Clockaudio clearly different.





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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.

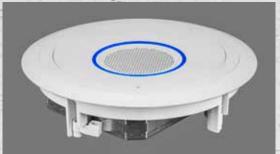
Availability options for RF-Immunity products in the Clockaudio microphone range continues to grow. RF-Immunity models are highlighted throughout the catalogue with the blue crossed-circle logo:







INTRODUCING **TIM-10000**



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 Adaptative 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 utilizes API control via UDP commands and comes with separate control and audio paths. Single audio channel output to Dante & AES67 networks.

TIM-1000

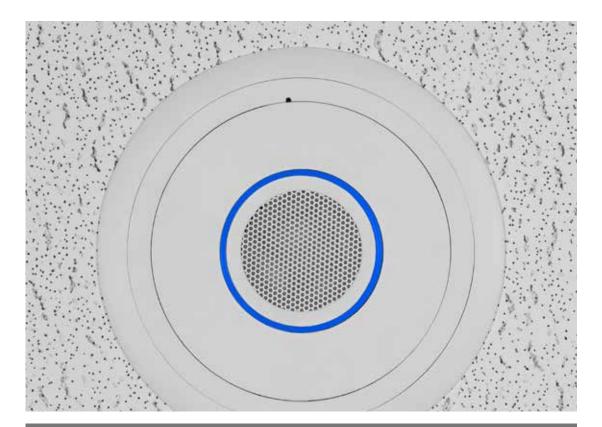
The Tracking Intelligent Microphone (TIM) breaks the mould for ceiling microphones. Designed for use in AV conference and huddle room applications. Low profile Ceiling Microphone with tracking ability and Adaptative Proximity Tracking Technology (APT). TIM tracks participants and follows them anywhere 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 utilizes 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.

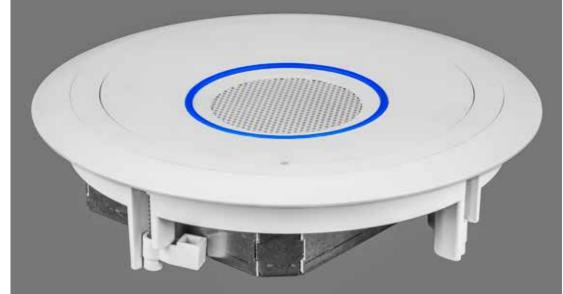
Tracks meeting participants within a room. APT technology for best possible sound output. Eliminates unwanted steady state noise e.g. air conditioning , projectors. Built-in equalizer. Supports DANTE and AES67. Intutive GUI through standard Web browser. Powered over Ethernet (PoE+). Separate control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

Models:

TIM-1000-CM Ceiling Mount version

| Model: | ТІМ-1000-СМ |
|-----------------------|--|
| Туре | 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 2" inch pole (pole not included).



Frequencies
(A) = RF-Immunity Version



Available Gooseneck Options:

• XLR Connector Mount

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

· Shaft

Choice of fully flexible or semi rigid shafts

Knuckle Joint

Unique design feature allowing horizontal rotation and verticle angle adjustment

· LED Halo

High bright Halo LED for speaker identification



· ON/OFF Switch

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

· RF-immunity

mmune to RF artefacts - fully shielded against Radio Frequency nterference (RFI) from GSM devices operating in the 300MHz ~ 1.2GHz bandwidth



C 3 Series

slimline goosenecks

Stylish, slimline, flexible goosnecks 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
- Tini Q mini-XLR termination for easy interchange
- Engineered in high quality brass
- Finished in black or white

Models:

| C 3100 | 125mm | Full-flex |
|----------|-------|------------|
| 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 S 140-RF.

| Model: | C 3 Slimline Gooseneck |
|--------------------|---------------------------------|
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -37dB ±3dB @ 1KHz (0dB=1v/Pa) |
| Impedance | 1.8k Ω |
| S/N Ratio | 69dB(A) |
| Maximum SPL | 120dB 1% THD |
| Power Requirements | 9 ~ 48v Phantom Power |
| Termination | 3 pin female 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.

C3 Series are open-ended, C3E Series have PPA with Male 3 pin XLR.

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

Base Models:

| C 31 | 100mm | + PPA 180mm | - |
|-------|---------|---------------|-----|
| C 32 | 200mm | + PPA 280mm | - |
| C 33 | 300mm | + PPA 380mm | 0 |
| C 34 | 400mm | + PPA 480mm | |
| C 35 | 500mm | + PPA 580mm | |
| C 36 | 600mm | + PPA 680mm | |
| C 301 | Knuckle | 80mm + PPA 18 | 0mm |

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 at 1KHz (0dB=1v/Pa) |
| Impedance | C3: 1.8kΩ C3E: 200Ω |
| S/N Ratio | 69dB(A) |
| Power Requirements | C3 Series: 1.5 - 9v through resistor |

C3E Series: 9 ~ 48v Phantom Power



Includes W 2 windshield



(g) = RF-Immunity Version



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.

C3 series open-ended; C3E series with PPA with male 5 pin XLR.

- High bright LED
- 5 pin XLR or base mounting
- Response optimised for constant sound quaility
- 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 **③**RF-immunity. See 'Available Gooseneck Options' (left) for full details.

| Model: | C3 and C3E Halo Series |
|--------------------|---|
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -37dB ±3dB at 1KHz (0dB=1v/Pa) |
| Impedance | C3: 1.8kΩ C3E: 200Ω |
| S/N Ratio | 69dB(A) |
| Power Requirements | C3 Series: 1.5 - 9v through resistor C3E Series: 9 ~ 48v Phantom Power |



Includes W 2 windshield



The 'ready-made' C 1001E-RF Series Microphones feature 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 adapter, the C1000H 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
- Finish: Satin Black.
- Also available in Nextel Suede Coating finishes (Custom Orders Only)

Models:

Ø C 1001E-RF

| Model: | C 1001E-RF |
|--------------------|-------------------------------|
| Frequency Response | 50Hz ~ 20KHz |
| Sensitivity | -39dB ±3dB @ 1KHz (0dB=1v/Pa) |
| Impedance | 200 Ω |
| S/N Ratio | 68dB(A) ±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 pro and live sound applications including places of worship, conference and leisure centres, banks and financial trading centres.





Includes W 8 windshield

C 801

shotgun knuckle joint

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

- · 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:

0

See 'Available Gooseneck Options' on Page 8.

| Model: | C 801 Series |
|--------------------|---|
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -37 dB ± 3 dB at 1KHz (0dB = 1v/Pa) |
| Impedance | C801: 1.8k Ω C801E: 200 Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| S/N Ratio | 69dB(A) |
| Termination | XLR: 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 p | olar pattern | |
|--|--|--|
| Slimline mini she | | |
| Superior grade of | | |
| Unobtrusive des | | |
| Finished in satin | | |
| | | |
| - Thisned in Satin | Diack | |
| Models: | DIACK | |
| Models: | UIACK | |
| Models: C 815E-RF | Semi-rigid | |
| Models: C 815E-RF | | |
| Models: C 815E-RF | | |
| Models: C 815E-RF | | |
| Models: ③ C 815E-RF ④ C 816E-RF 5 | Semi-rigid | |
| Models: C 815E-RF C 816E-RF Model: | Gemi-rigid C 815E-RF & C 816E-RF | |
| Models: C 815E-RF C 816E-RF Model: Frequency Response | Semi-rigid C 815E-RF & C 816E-RF 50Hz ~ 18KHz | |
| Models: C 815E-RF C 816E-RF Model: Frequency Response Sensitivity | Semi-rigid C 815E-RF & C 816E-RF 50Hz ~ 18KHz -45dB ±3dB at 1KHz (0dB = 1v/Pa) | |
| Models: C 815E-RF C 816E-RF C 816E-RF Sensitivity Impedance | Semi-rigid C 815E-RF & C 816E-RF 50Hz ~ 18KHz -45dB ±3dB at 1KHz (0dB = 1v/Pa) 200Ω | |



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

| | 20- |
|--------------------|-------------------------------|
| 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 rigid shafts vertically adjustable, individually through 180degrees. 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 1000 Bungard Super
- 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:



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.



- Attractive slimline design
- Integrated Phantom
 Power Adaptor
- 3 pin XLR mounting
- Shaft angles independently adjustable

Models:

C 440E

| Model: | C 440E | Q |
|--------------------|--|---|
| 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 | |



A CLOCKAUDIO

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. Available in Satin black.
- C 3H Short slimline cardioid condenser microphone for use in controlled acoustic environments. Available 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. Available in Satin black.

• C 1000H

• C 3H



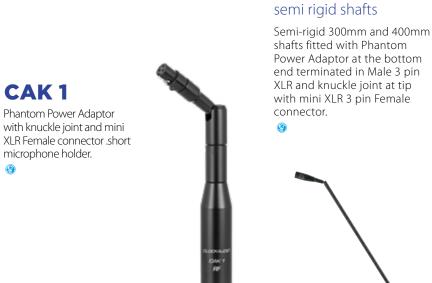


• C 800H

W 2 windshield W 8 windshield

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

Combination Series related products



SM 155

0

Floor mounting, shock absorbing microphone base.

CA 700/CA 900

CA 30/CA 40

floor standing long shafts

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

8



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



| 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 | 200 Ω |
| Termination | M10 x 1 thread with shakeproof washer and nut or Male 3 pin XLR |

D43/D44

dynamic goosenecks

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

- Rugged all-metal construction
- Response optimised for speech

300mm Base mount

400mm Base mount

D 43/D 44

150Hz ~ 12KHz

 200Ω

-60dB ±3dB @ 1KHz (0dB=1v/Pa)

and nut or Male 3 pin XLR

M10 x 1 thread with shakeproof washer

D 43E 350mm 3 pin XLR

D44E 450mm 3 pin XLR

• Finished in satin black

Models: D 43 30

D 44

Model:

Impedance

Termination

Frequency Response Sensitivity

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

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 3 pin XLR
- Application include: Paging, Intercom, Ticket counter, Bus, Train, Restaurant, Dispatch desk
- · Finish: low reflective Satin Black finish





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



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| Statements | |
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| | |
| Models: | |
| | |

DMB 1 Single Zone DMB 2 Two Zone



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
- Satin Nickel or Black Nextel finish

Models:

ARM 102-RF Black
ARM 102N-RF Nickel

| Model: | ARM 102-RF |
|--------------------|---|
| Туре | Condenser (Back Electret) |
| Polar Pattern | Half Cardioid |
| Frequency Response | 50Hz - 18KHz |
| Sensitivity | -37dB +/- 3dB @ 1KHz (0dB = 1v/Pa) |
| Impedance | 200 Ω |
| 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 sinking into table top to give a perfectly flat surface.





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
- Satin Nickel or Black Nextel finish

Models:

ARM 202-RF Black
ARM 202N-RF Nickel

| Model: | ARM 202-RF |
|--------------------|--|
| Туре | 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.
 Black Nextel or Satin Nickel.

Models:

- **© CRM 202-RF** dual element cardioid Black
- Scrm 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 sinking into table top to give a perfectly flat surface.



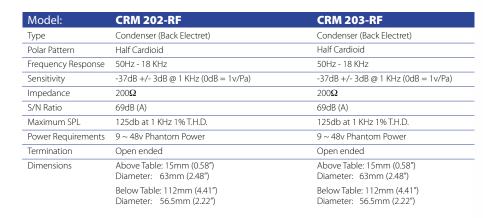
CRM 202-RF

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.











CRM 102-RF

Retractable through-table halfcardioid 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
- Satin Nickel or Black Nextel finish

CRMF Straight Cut - see page 14

Models:

CRM 102-RF

| Model: | CRM 102-RF |
|--------------------|--|
| Туре | 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 through-table boundary microphone

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

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



Models:

OO4E-RF Black **OVERATE** C 004EW-RF White

| Model: | C 004E-RF |
|--------------------|-----------------------------------|
| Polar Pattern | Cardioid |
| Frequency Response | 50Hz ~ 18KHz |
| Sensitivity | -37dB ±3dB at 1KHz (0dB=1v/Pa) |
| Impedance | 200 Ω |
| 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

Models:

C 012E-RF

C 012EN-RF

- Balanced output
- Simple through-table shock mounting
- · Finished in satin black or nickel



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

Black

Nickel



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 4-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
- Non-reflective black Nextel or satin nickel
- The CS series available in other customised colours and special finishes upon request

Models:

- S CS 1-RF single element
- CS 2-RF dual element
- CS 3-RF triplle element
- CS 4-RF guadruple element

| 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 |







S 1-RF - single element boundary microphone



CS 2-RF - dual element boundary microphone



CS 4-RF - quadruple 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
- Available in Black and Stone Grey Nextel finish



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 | 200 Ω |
| Power requirements | 9 ~ 48v Phantom Power |
| | Switchable Bass Filter & -10dB Switchable Pad |
| S/N Ratio | 69dB(A) |

C 008E tabletop boundary microphone

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

- Half-cardioid polar pattern
- Fully balanced

Models:

Model:

Sensitivity

Impedance

S/N Ratio

Termination

C 008E-RF
 C 008EG-RF

Frequency Response

Power Requirements

- High quality engineering in solid brass
- · Concealed cable and fixing screw mounting
- Available in Black and Stone Grey Nextel finish

C 008E

 200Ω

69dB(A) Male 3 pin XLR

50Hz ~ 18KHz

-37dB ±3dB at 1KHz (0dB=1v/Pa)

9 ~ 48v Phantom Power

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:

| 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
- Satin Nickel or Black Nextel finish

Models:

- ARM 100-RF low profile
- ARMF 100-RF countersunk profile

| Model: | ARM 100-RF |
|--------------------|--|
| Туре | Condenser (Back Electret) |
| Polar Pattern | Omni-directional |
| Frequency Response | 30Hz ~ 20KHz |
| Sensitivity | -42.5dB +/- 3dB @ 1KHz (0dB = 1v/Pa) |
| Impedance | 200 Ω |
| 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 sinking into table top to give a perfectly flat surface.



CRM 100-RF

retractable through-table omnidirectional condenser microphone

The CRM100-RF is a boundary layer, through-table, omnidirectional 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
- Satin Nickel or Black Nextel finish

Models:

- CRM 100-RF low profile
- CRMF 100-RF countersunk profile

| Model: | CRM 100-RF |
|--------------------|--|
| Туре | 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.

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



 Models:
 Black

 Image: CooseW-RF
 White



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

C O11E-RF through-table boundary microphone

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

RF-immune

Models:

C 011E-RF

C 011EN-RF Nickel

- Balanced output
- Simple through-table shock mounting

Black

Finished in satin black or nickel



| Model: | C 011E-RF | |
|--------------------------|------------------|--|
| Polar Pattern | Omni-directional | |
| Frequency Response | 50Hz ~ 20KHz | |
| Sensitivity | -42dB | |
| ±3dB at 1KHz (0dB=1v/Pa) | | |
| Impedance | 200 Ω | |
| 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 (cellphones) 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%.
- Finish: Satin Black.
- Also available in Nextel Suede Coating finishes (Custom Orders Only)

Models:



| Model: | С 30Н |
|--------------------|--|
| Туре | 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 OO2E-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
- Available in Black and Stone Grey Nextel finish



Models:

C 002E-RF

🧐 C 002EG-RF

| 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
- Available in Black and Stone Grey Nextel finish

C 005

Boundary Layer Condenser Microphone designed for surveillance and recording 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
- Finish: Black
- Inbuilt Phantom Power Module
- · Internal screw fixing terminals for wiring



Models:

🧐 C 009E-RF

🧐 C 009EG-RF

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



| Model: | C 005 |
|--------------------|--|
| Frequency response | 50Hz ~ 18KHz |
| Impedance | 200Ω |
| Sensitivity | -42.5.5dB +/- 3dB @ 1 KHz (0dB = 1 V/Pa) |
| S/N Ratio | 68dB(A) |
| Power Requirements | 9 - 48 volts Phantom Power |
| Finish | Black |

CS S-RF Series boundary layer professional switched microphones

The Consultant Boundary Series with inbuilt 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
- In built electronic touch switch with RGB LED Halo ring
- Fully balanced
- Engineered in high quality brass
- Finished in Non-reflective Black Nextel and Satin Nickel
- Inbuilt Phantom Power Module
- Touch switch requires connection to a DSP or LB001
 mute control box.
- Terminated with RJ 45 for switching

Models:

- CS 1S-RF single element
- S 2S-RF dual element
- S 2SV-RF dual element
- CS 3S-RF triplle element
- S **CS 4S-RF** quadruple element

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





CS 2SV-RF



🌝 CS 3S-RF





CS 4S-RF

CRM 200S-RF Series

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

The CRM 200S RF Series is a boundary layer throughtable microphone, whivh includes a touch sensitive switch with Tri-Colour LED Halo mounted into the top of the microphone housing. The CRM 200S-RF 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.
- Black Nextel or Satin Nickel.

Models:

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

CRM 200S-RF

single omni directional element

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

CRM 202S-RF

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 tri element cardioid condenser microphone

Offering three independently wired microphones. Tri Cardioid polar pattern. 3 x balanced outputs. Inbuilt Phantom Power modulesl.









| Model: | CRM 200S-RF | CRM 202S-RF C | RM 203S-RF |
|----------------------|---|---|---|
| Туре | 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 RJ4 | Audio: Open ended 5 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

The TS 003 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 |
|---------------------|--|
| Туре | 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

halo ring & touch pad switch

The TS 005 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 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:

TS005 Black TS005W White

| Model: | TS 005 |
|---------------------|--|
| Туре | RGB Halo Ring & Touch Sensitive Switch |
| LED Colour | Red, Green, Blue |
| Operating Voltage | 12v DC (Regulated) |
| Current Consumption | 140mA |
| Termination | RJ 45 |









SWP2

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. Requiring 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 capacitive touch switch.
- TS 006 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.
- Finish: Black Nextel® or Satin Nickel.
- Also available in Nextel Suede Coating finishes
 (Custom Orders Only)







Models:

SWP2 Black SWP2N Nickel

| Model: | SWP2 |
|----------------------|--|
| Power Requirements | 12vDC @ 70mA |
| Termination | RJ45 Plug Pins 1-7 used |
| Supplied Accessories | TS-C1 |
| Finish | Black Nextel or Satin Nickel |
| Weight | 160g |
| Dimensions | Lenght: 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 desk 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 | |
| Dimension | 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.

ARM-PSU 4

CAP 002

line level pre-amplifier

The CAP 002 is a line level preamplifier 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 barrier strips for quick termination



Models:

CAP 002

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

Models:



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

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 3 pin male XLR and fitted with 3 pin Male mini XLR connector
- Female Tini Q miniature cord plug also supplied



PPM

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

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

CLOCKAUDIO

Models:

РРМ

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
CPPW 01-RF

Plastic case 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: PP2



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 allow easy and fast connection of the audio to mixer or DSP. a 9-48 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 Master DSP control port will simultaneously activate all slave Retractas connected to the Master
- 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 absense of a DSP
- Wall or ceiling mounted IR Sensor with integral LED (Main Retracta)
- 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
- The CCRM is also available with a 9.14 Metres drop (30' Feet) Model Number CCRM-4030

Models: With prewired single element C3 microphone

- **© CCRM 4000-M-RF** Main Unit with single microphone, in Black
- SCCRM 4000W-M-RF Main Unit with single microphone, in White
- **© CCRM 4000-SL-RF** Secondary Unit with single microphone, in Black
- **CCRM 4000W-SL-RF** Secondary Unit with single microphone, in White

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

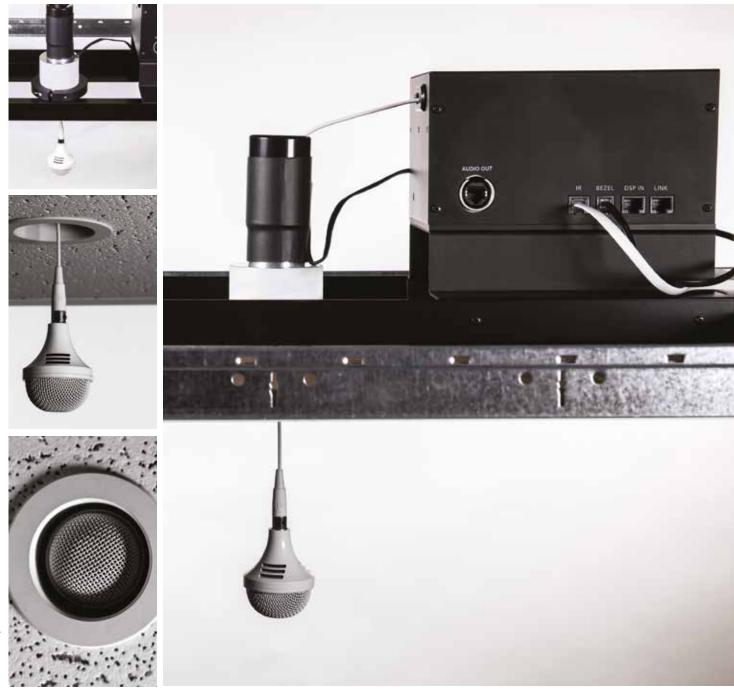
Features: Tri element microphone

- 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 Master (00) and 01-99 determines slave 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 Meters drop (30 feet). Model Number CCRM-4030

Models: With prewired tri element C303 microphone

CCRM 4000-M-C303-RF Main Unit with single microphone Black
 CCRM 4000W-M-C303W-RF Main Unit with single microphone White
 CCRM 4000-SL-C303-RF Secondary Unit with single microphone Black
 CCRM 4000W-SL-C303W-RF Secondary Unit with single microphone White





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 |
| 🧐 C 3SE-RF | Black supplied with PPA-RF |
| C 3SW | lvory supplied open-ended |
| 🧐 C 3SW-RF | Ivory supplied with CPPW01 |
| 🧐 C 3SEW-RF | lvory 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

-RF

-RF

C8S 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 | lvory 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 |



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-RF and C 8S-RF come supplied with C 3S-RF-CP and C 8S-RF-CP ceiling plate

Models:

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



CP73

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



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 termination, phantom power adaptor required

Models:

Termination

C 303-RF Black C 303W-RF White



'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)



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 offer 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 | -42.5.5dB +/- 3dB @ 1 KHz (0dB = 1 V/Pa) |
| Current Consumption | 40mA |
| Dimensions | Height: 45 mm Diameter: 100 mm Weight: 126g |



| Models: C 007 C 007E C 007E-RF C 007E-LED-R | F | | |
|---|--------------|--------------|--|
| Model: | C 007 | C 007E | |
| Frequency Response | 50Hz ~ 20KHz | 50Hz ~ 20KHz | |

| Frequency Response | 50Hz ~ 20KHz | 50Hz ~ 20KHz | 50Hz ~ 20KHz |
|--|--|-----------------------|---|
| Sensitivity | -42.5dB ±2dB | 3 at 1KHz (0dB=1v/Pa) | |
| Impedance | 1K Ω | 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 |

C 007E-RF

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

RI-45 to Phoenix

Power Requirements 9 ~ 48v Phantom Power





TIM-1000

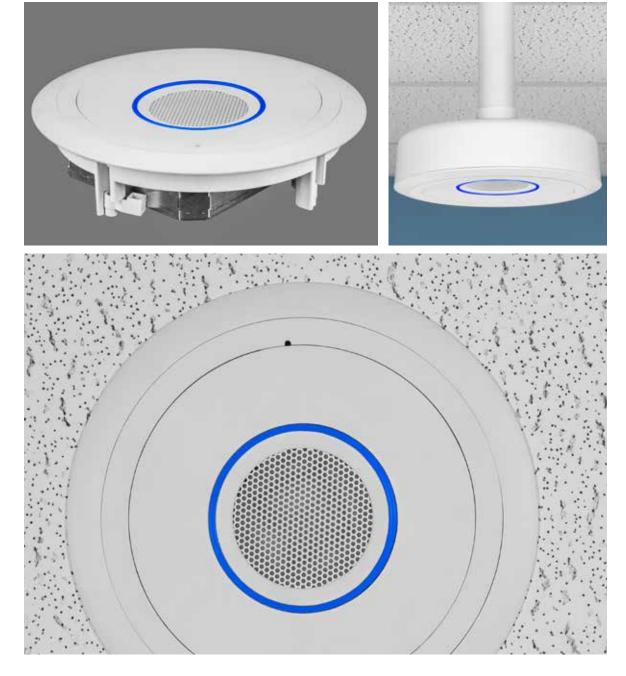
The Tracking Intelligent Microphone (TIM) breaks the mould for ceiling microphones. Designed for use in AV conference and huddle room applications. Low profile Ceiling Microphone with tracking ability and Adaptative Proximity Tracking Technology (APT). TIM tracks participants and follows them anywhere 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 utilizes 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.

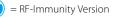
Tracks meeting participants within a room. APT technology for best possible sound output. Eliminates unwanted steady state noise e.g. air conditioning , projectors. Built-in equalizer. Supports DANTE and AES67. Intutive GUI through standard Web browser. Powered over Ethernet (PoE+). Separate control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

Models:

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

| Model: | TIM-1000-CM |
|-----------------------|--|
| Туре | 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 & 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 C303-RF

Models:

| 🞯 C 303-D | Black |
|------------|-------|
| 🥝 C 303W-D | White |

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



CDT 100 MK2 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 guality.

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, multiple inputs may be daisy chained (maximum of 6 units on a single CAT-5)
- Provides Phantom Power for each mic input
- 4 control inputs compatible with all Clockaudio devices including: - direct connection to TS-005 switch and LED, TS003, Retracta CRM202S-RF, CS-S Series, SM80S, S80S
- direct connection to ARM-C controller
- Open API for interfacing with Control Systems
- Compatible with any Dante capable audio DSP used in combination with a Crestron or AMX Controller*
- 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 | 0dB |
| Input impedance | >1.8K ohms |
| Phantom Power | +48V, software selectable |
| EIN | -115dBu |
| System THD+N | <0.01% at any gain, input signal 3dB below maximum |
| Physical level | Standard Ethernet |
| Connector | Single RJ-45 |
| Cable Quality | CAT5 |
| Transmission speed | 100 Mbps |

Transmission speed





Models:

CDT 100-UDP Mk2

For Crestron/AMX logic control users only

CDT 100-ConMon Mk2

For Symetrix Logic control users only

*The CDT100-UDP requires a Crestron or AMX control system for logic and Phantom Power activation.

Dante compatible Symetrix DSP requires CDT100-ConMon for logic control and Phantom Power activation unless used in combination with a Crestron or AMX control system





CUI-2

The Clockaudio's USB Interface (CUI-2) enables virtually any of the Clockaudio's 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 enables provision of proper 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 hand held 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



C 600



Includes SA 3 clip

| Model: | C 600 |
|--|--------------------------------|
| Frequency Response | 50Hz ~ 20KHz |
| Sensitivity | -37dB ±3dB at 1KHz (0dB=1v/Pa) |
| Impedance | 200Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter -10dB Switchable Pad | v |
| 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
- Black Nextel finish

Models: C 650E



Includes SA 5 clip

CBEOR (E

| Model: | C 650E |
|--|-------------------------------|
| Frequency Response | 50Hz ~ 20KHz |
| Sensitivity | -48dB ±3dB @ 1KHz (0db=1v/Pa) |
| Impedance | 200 Ω |
| Power Requirements | 9 ~ 48v Phantom Power |
| Switchable Bass Filter & -10dB switchable Pad | V |
| 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.



D700

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
- Black finish

Models:

D 700

D700S

dynamic supercardioid microphone

Optimised for speech and musical instruments.

- Rugged die cast metal construction
- Super Cardioid Polar
- Pattern
- Wide smooth frequency
- response • Neodymium magnet
- Balanced output
- · Silent magnetic on-off reed switch
- · Inbuilt shock mount for superior low handling noise
- Termination 3 pin male XLR
- Supplied with swivel
- Finish low reflective Satin Black

Includes SA 5 clip

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



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





windshield and a clip

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



Includes W 5 windshield and a clip

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



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





CAK 1

Phantom Power Adaptor with knuckle joint and mini XLR Female connector. Short microphone holder designed for fast connection of condenser microphones requiring phantom power adaptor.

Constructed from high quality brass a knuckle joint allowing horizontal rotation and vertical adjustment.

A Mini XLR connector is fitted at the top of the joint to allow connecting our Clockaudio modular capsules.

· Constructed from high quality brass.

- A knuckle joint allows horizontal rotation and vertical adjustment.
- A Mini XLR connector is fitted at the top of the joint to allow fixing of Microphones with same connector.
- A Phantom Power Adaptor with balanced output is fitted for electret condenser microphones.
- The Phantom Power Adaptor is fully protected against RF interference from
- GSM devices and is terminated with a 3 Pin male XLR.
- Impedance 200 Ohms
- Finish: Satin Black
- Also available in Nextel Suede Coating finishes (Custom Orders Only)

Models:

CA 700/CA 900

floor standing long shafts

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

 Long Shaft includes Phantom Power Adaptor at bottom end terminated in Male 3 pin XLR

- Knuckle joint at microphone end terminated with mini 3 pin female connector
- Impedance 200 Ohms
- Finish: Satin Black

DOKALE

CAK 1

RF

 Short shaft connects to SM 155 floor mounting, shock absorbing base (not included, order separately)

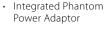
Models:

| 8 | CA 700-RF | 700mm |
|---|-----------|-------|
| | CA 900-RF | 900mm |

CA 30/CA 40

semi rigid shafts

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



- Bottom end has male 3 pin XLR
- Top end has a mini 3 pin XLR
- Impedance 200 Ohms
- Finish: Satin Black

Models:

- 🥝 CA 30-RF 300mm
- 🎯 CA 40-RF 400mm



S 750

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

Models:

S 750

SM 155

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

Models:

SM 155



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



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" \sim 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 PPA (*Phantom Power Adaptor*)



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 3 pin female XLR input and 3 pin 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 3 pin male 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.



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

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



SM 75



SM 75x5 5 pin XLR SM 75 -10 10mm screw fitting

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

Base Models:

SM 80

closed.

A low profile, table-mounted shock mount

• 3 pin & 5 pin XLR connector versions available

• RF option also available (3 pin male mini XLR)

• Finished in satin nickel or black nextel

fitted with flip cover to conceal connector when

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

S 133, S 135, S 140, S 120 S 155 & S 157 Table microphone base fitted with M10x screw thread mounting hole.

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

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



Models:

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



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





• '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 with a 2 meter cable option

| 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 meters subject to local regulations
- Frequency range 502 960MHz
- 3000 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 fuel gauge, ID Number |
| Controls | Power On/Off, Frequency Up/Down, Frequency Scan, Audio Level Lock-on, ID Pairing |
| Audio Output | - 12dB |
| AF Output Impedance | 600Ω |
| 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 | ±10KHz |
| Frequency Deviation | ±48KHz |
| Display | LCD |
| Controls | Frequency, Battery fuel gauge, ID Number |
| Spurious Emissions | <-50 dBC |
| Audio Frequency | 50Hz - 16.5KHz |
| Battery | 2 x AA 1.5V |

| | CW 8001T CW 8001T CW 8001T CW 8001T CHOCKALORO CW 713. Theorem | |
|----|---|--|
| | CW 8001 | |
| | UHF PPL | |
| ge | 502-960MHz according to local regulations | |
| | 10mW/50mW Switchable | |
| | ±10KHz | |
| | 1 40KI I- | |

| mouel. | |
|---------------------|---|
| 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 Fuel 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 meters subject to local regulations
- Frequency range 502 960MHz
- 1441 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 fuel 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 |
| 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 Fuel 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 | | |

CW 7001T

1-8

100



Wireless Accessories



• AA 8000 Antenna Distribution Amplifier





• **CW 7000C** Interchangeable Condenser Microphone Head



A CO

UDA 8000
 Directional Antenna

USP 8000
 Antenna Splitter





• AB 9000 Antenna Booster

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• UOA 8000 Omni Directional Antenna provides consistent reception across 470-960 MHz



• RRM9000/RCP9000 Rack mount for CW7000 with half rack blanking plate

• RM10 Rack mount for CW8000

| 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 |
|--------------------|---------------------------|
| Туре | 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 +2/-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 |
| VSWR | 1.2 (Voltage Wave Standing Ratio) |
| Impedance | 50 Ω |
| Isolation | 20dB |
| Insertion Loss | 2dB |
| 0 01/01 1 01/0 | |

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



CTH 100

| Model: | СТН 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 | 900Ω |
| 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 proaudio. 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 | 1ΚΩ |
| Power Requirements | 1.5 ~ 9v (standard operating voltage 1.5v) |
| Termination | mini XLR Female 4 pin 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 meters (59,6") of cable attached, matching windshield and tie clip included.

- Lavalier back electret condenser Microphone.
- Terminating with a 4pin mini XLR connector.
- Supplied with tie clip and foam windshield.
- Cardioid polar pattern.





| Model: | CL 6 |
|----------------------|------------------------------------|
| Туре | Condenser (Back Electret) |
| Polar Pattern | Cardioid |
| Frequency Response | 50Hz ~ 16KHz |
| Sensitivity | -44dB ± 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 or beige, easy-clean finish

| 1٥ | de | ls: | |
|----|----|-----|--|

CMH 2000 Black CMH 2000B Beige

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

HW 1600

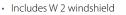
rugged lightweight headworn boom microphone

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







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

HW 1200

lightweight headworn boom microphone

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



| 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 | Mini XLR Female 4 pin 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



| Model: | H 500 |
|-----------------|---|
| Туре | Dynamic closed-back circumaural |
| Sensitivity | 96dB SPL ±3dB @1mw |
| Frequency | 15Hz ~ 22KHz |
| Max Input Power | 500mw |
| Impedance | 24Ω |
| TDH | <0.3% |
| Cable | Plug-in single cable approx 3m |
| Connector | Gold-plated mini stereo jack |
| Stereo Adaptor | Gold-plated mini stereo jack to ¼" 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



| 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 |

HS 1000 Series

communications headset with dynamic or condenser microphone

The HS1000 is a ruggedly built headset with a choice of dynamic or condenser microphone, designed for a wide range of applications such as theatres, concert halls and studios. The earpieces effectively reduce high surrounding noise and equally contain the received sounds when working in guiet 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 HS 1000D

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



| Model: | HS 1000D | HS 1000E |
|-----------------|-------------------------------------|---------------------------|
| Microphone | Dynamic | Condenser (back electret) |
| Polar Pattern | Noise cancelling | Noise cancelling |
| Frequency Range | 150Hz ~ 10KHz | 100Hz ~ 10KHz |
| Impedance | 300Ω | 1.6K Ω |
| 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

| 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 |
| | | |



• GT 400R - Receiver





• 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



| 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 - Hand Held Transmitter



• GT 520T - Transmitter



• DC 402 - 2 unit desktop charger









MR 88

digital automatic microphone mixer

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

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

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

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



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



Communicator Two-way intercom

The Clockaudio Communicator Full Duplex Two-way Communicator System is designed for use in situations where company staff need to be able to deal efficiently with visitors, whilst at the same time remaining totally secure. Communicator has a wide range of applications and is especially ideal for use in areas where money transactions take place, where cash or other valuables are on view or where staff require a higher level than usual of personal safety.

Communicator also allows staff to deal in an efficient and friendly way with visitors, without giving them actual access to inner parts of the building where such access may be inappropriate.

Communicator comprises of a range of professionally designed loudspeaker and microphone units, superbly styled to enhance any location. It is powered by a simple to operate, ruggedly-built amplifier providing excellent speech clarity.



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 a part of the security system allowing speech through security windows and screens. The CLF 100 Visitors 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.



For ease of fitting, the visitor loudspeaker and microphone units use the same steel housing which can be flush mounted recessed into a wall or counter top or surface mounted on the counter top.

Condenser Microphone Visitor microphone fitted in a housing which can be

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.

CMF 100 Flush Mount

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 Visitors 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 Visitors surface mount unit is constructed from steel and is part of a full duplex twoway communication system with the CSU 100 Staff unit.

Both above 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 | CML 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 | Matte Black | Matte 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") |

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 Visitors unit is constructed from steel and is part of a full duplex two-way communication system with the CSU 100 Staff unit.

Both above 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 | Matte Black | Matte 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



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 | Matte 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 Pheonix connector.
- Finish: Matte Grey.

CILA 100

The CILA100 Induction loop coil will allow users with hearing aids having a T facility to hear clearly information being relayed by the CA100 security system.

- Plugs into the CA100 security system amplifier.
- Induction range up to 1 Metre square area.
 The loop antenna can be fixed discretely underneath a table and comes supplied

CPS 100 Power Supply

12vDC Power supply for the Communicator Security system.

- Plug in 12v Power Adaptor for CA 100.
- Detachable mains cable.

with 5.5 metre long 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.
- Finish: Black.

Model:CPS 100Weight0.30KgsFinishBlackDimensionsHeight: 35mm
Width: 50mm
Length: 94mm



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 | Omni-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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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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