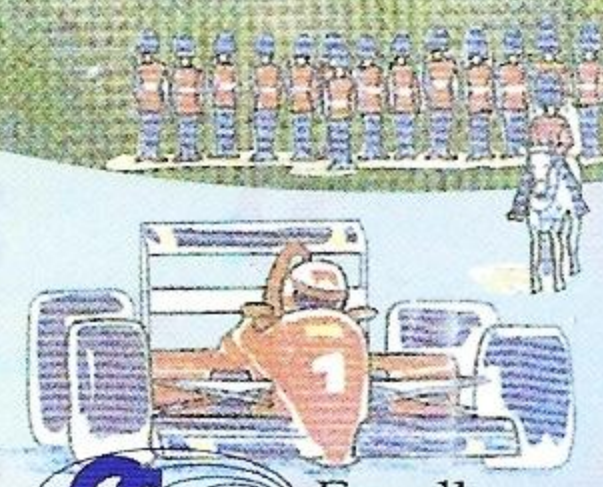
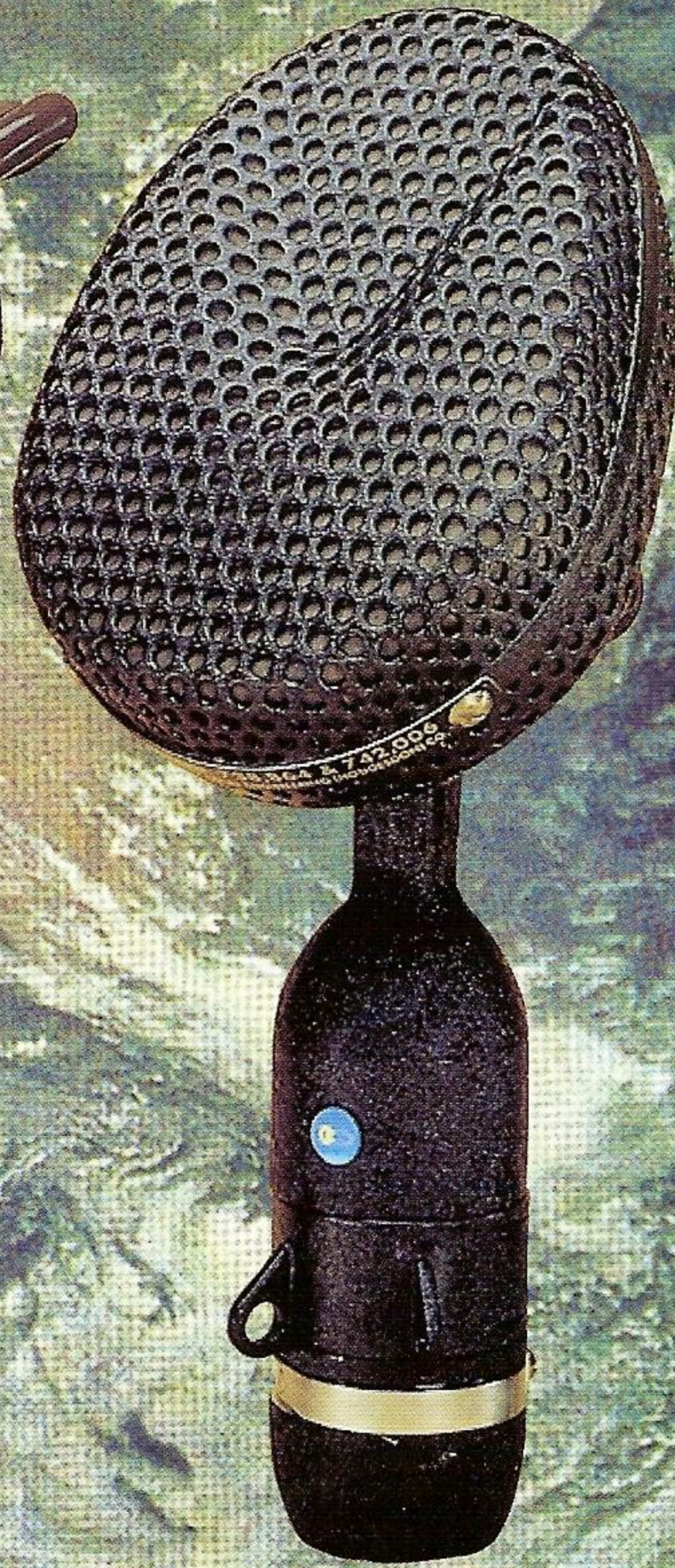




# Coles

## RIBBON MICROPHONES SIMPLY OUT OF THIS WORLD

Angel of the Bar  
616 63 39 99



 Coles

 Microphones

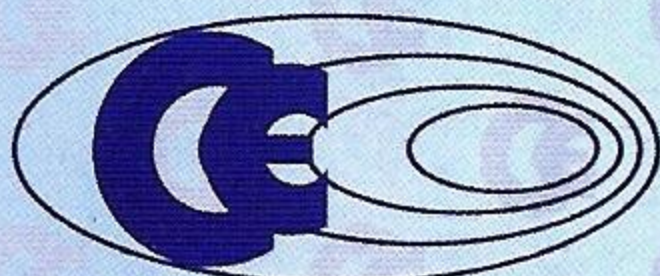
 For all

 Events

 Occasions

Angel of the Bar  
616 63 39 99





# Coles

4038  
STUDIO  
RIBBON MICROPHONE

- ★ Body shaped to enhance acoustic performance.
- ★ Clear natural high fidelity reproduction of sounds.
- ★ Smooth sonic textured response.

The 4038 Studio Ribbon Microphone is of British Broadcasting design (BBC) and used for broadcasting and recording such sounds where a clear smooth wide range frequency response, absent of transient distortion and relatively high sensitivity is essential.

The 4038 has a proven reliable performance capability, being since its introduction, used by broadcasting networks throughout the world such as the BBC.

The frequency response of the 4038 is exceptionally flat from 30 to 15,000 c/s and throughout this range the shape of the bi-directional (figure of eight) polar response is maintained substantially constant both in the horizontal and vertical planes, giving a natural smooth sonic quality textured response to sound signal being picked up.

#### MODEL 4038 HIGH FIDELITY

Pressure gradient transducer ribbon microphone.

#### RIBBON

Low mass damped ribbon to control transient response.

#### POLAR RESPONSE

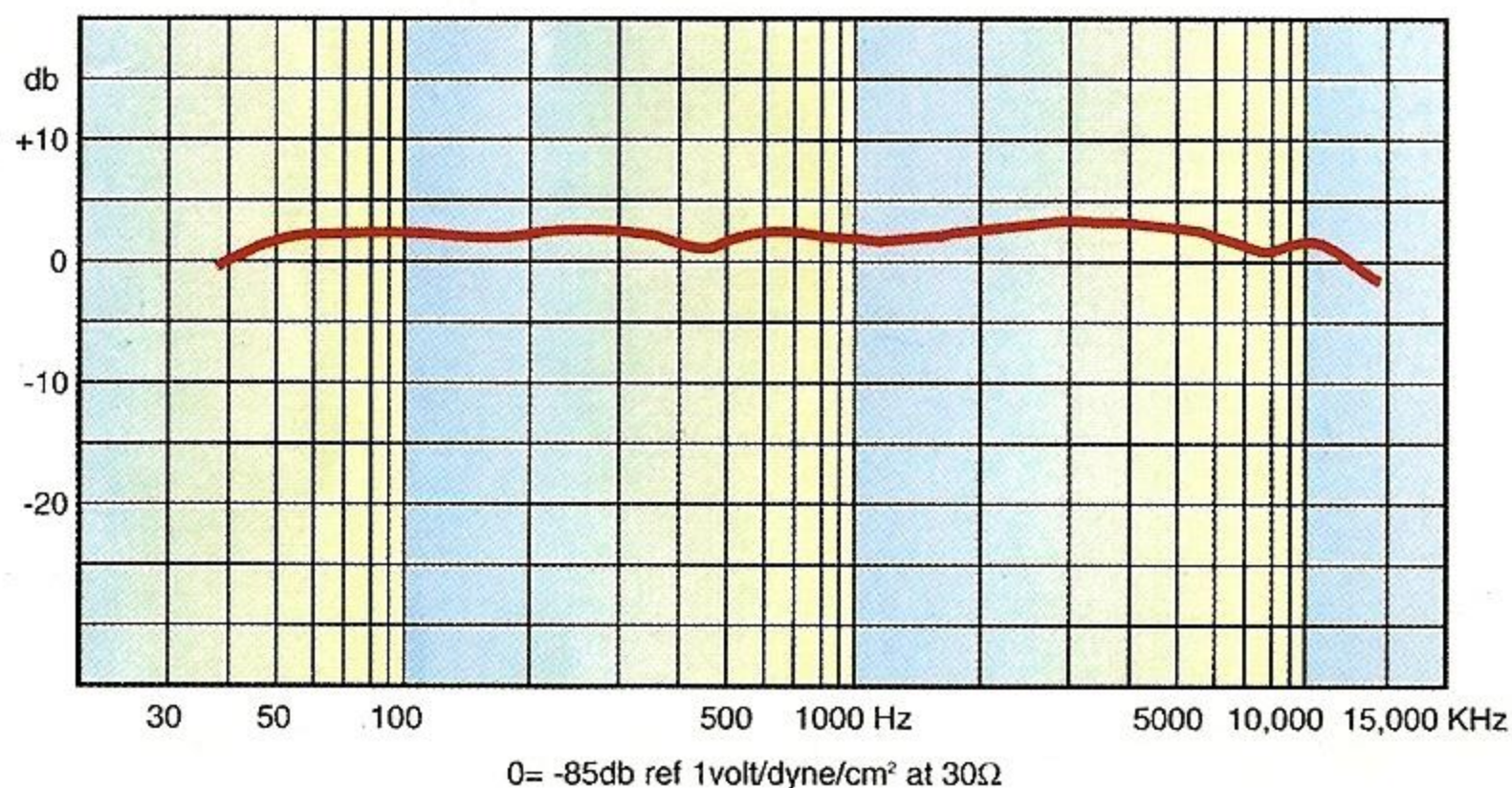
Bi-directional.

#### MAGNETIC FIELDS

By use of hum neutralising wiring and magnetic shielding of the toroidal ribbon to line transformer 30 to 40 dB reduction is achieved in response to stray disturbing magnetic fields.

#### FREQUENCY RESPONSE

30 Hz to 15,000 Hz.



All microphones factory tested in free field conditions.

#### IMPEDANCE

300 ohm.

#### SENSITIVITY

-65 dB W.R.T. IV/Pa.

#### DISTORTION

Less than 1% at 125 dB SPL.

#### CONNECTION

By means of 4069 3 pin jack plug. Pin 1 positive - Pin 2 negative - Pin 3 screen.

#### BODY HOUSING

Made of heavy gauge perforated brass backed by finely woven monel mesh. Rotating hinge connection allows microphone to tilt through 90° and turned in any direction when either suspended or free standing.

#### DIMENSIONS

7 1/4" (197 mm) x 3 1/4" (83 mm) x 2 3/8" (61 mm).

#### WEIGHT

2 lb. 6 oz. (1.08 Kg).

#### FINISH

Black stove enamel textured paint.

#### PACKAGING

Each microphone comes in a foam lined rigid plastic carrying case with 4069 jack plug, and soft cloth protective bag, for safe keeping.

#### ACCESSORY

- 4070 Floor stand plug adaptor.
- 4071 Mic to stand adaptor with XLR.
- 4069 to XLR.
- Soft cloth protective bag.
- Foam lined rigid plastic carrying case.

★ Substantially flat frequency response from 30 to 15,000 c/s.

★ Extremely low (non-linear) distortion.

★ Exceptionally low hum pick-up.

## COLES Electroacoustics Ltd.

MICROPHONES - LOUDSPEAKERS  
- HEADPHONES -  
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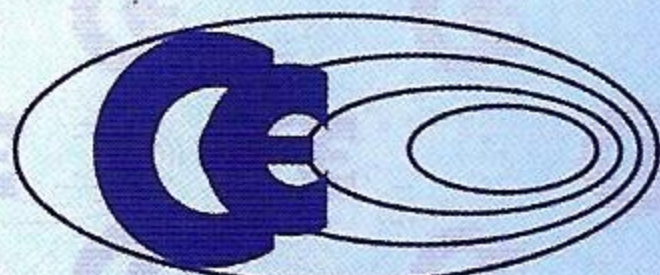
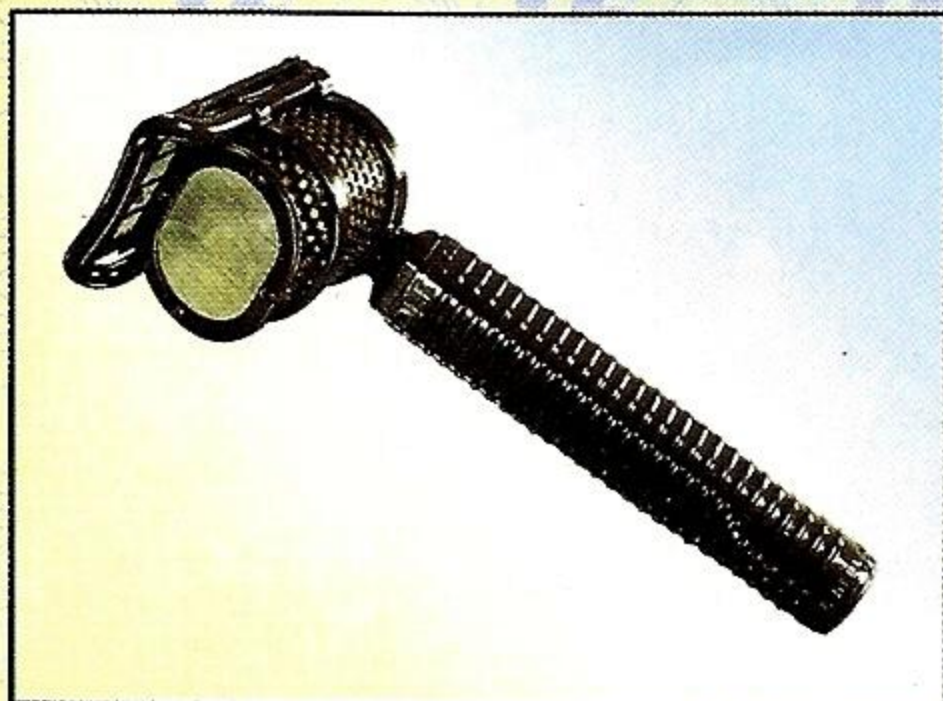
★ Bi-directional (figure of eight) polar curve shape accurately maintained in both horizontal and vertical planes.

★ Excellent transient response.

★ Natural clear balanced response to sound signal.







# Coles

**4104  
COMMENTATOR'S  
RIBBON MICROPHONE**

- ★ Better than 30 dB average discrimination between voice and background noise.
- ★ Provides speech of broadcast quality completely free from breath noises.
- ★ Flat frequency response at the controlled talking distance.

The 4104 Commentator's Noise Cancelling Ribbon Microphone is of British Broadcasting (BBC) design and used for reproducing high quality commentary speech from noisy surroundings by cancelling out a considerable degree of background noise.

The 4104 has a proven reliable performance capability, being since its introduction used by such broadcasting networks as the BBC, IBA, CBS and ABC.

The 4104 is not unduly affected by wind noise and can be used in air stream velocities up to 20 mph (32 km) without notable difference in speech quality. With the use of a simple windshield attachment good quality speech reproduction can also be achieved in winds ranging up to 40 mph (64 km) or more.

Importantly the polar response is effectively bi-directional allowing one or more commentators to make clear individual commentary close side by side without interference from mutual cross over talk.

#### MODEL 4104 NOISE CANCELLING

Pressure gradient transducer ribbon microphone.

#### RIBBON

Corrugated aluminium ribbon protected by fine woven nylon gauze.

#### POLAR RESPONSE

Bi-directional.



Effective noise cancellation

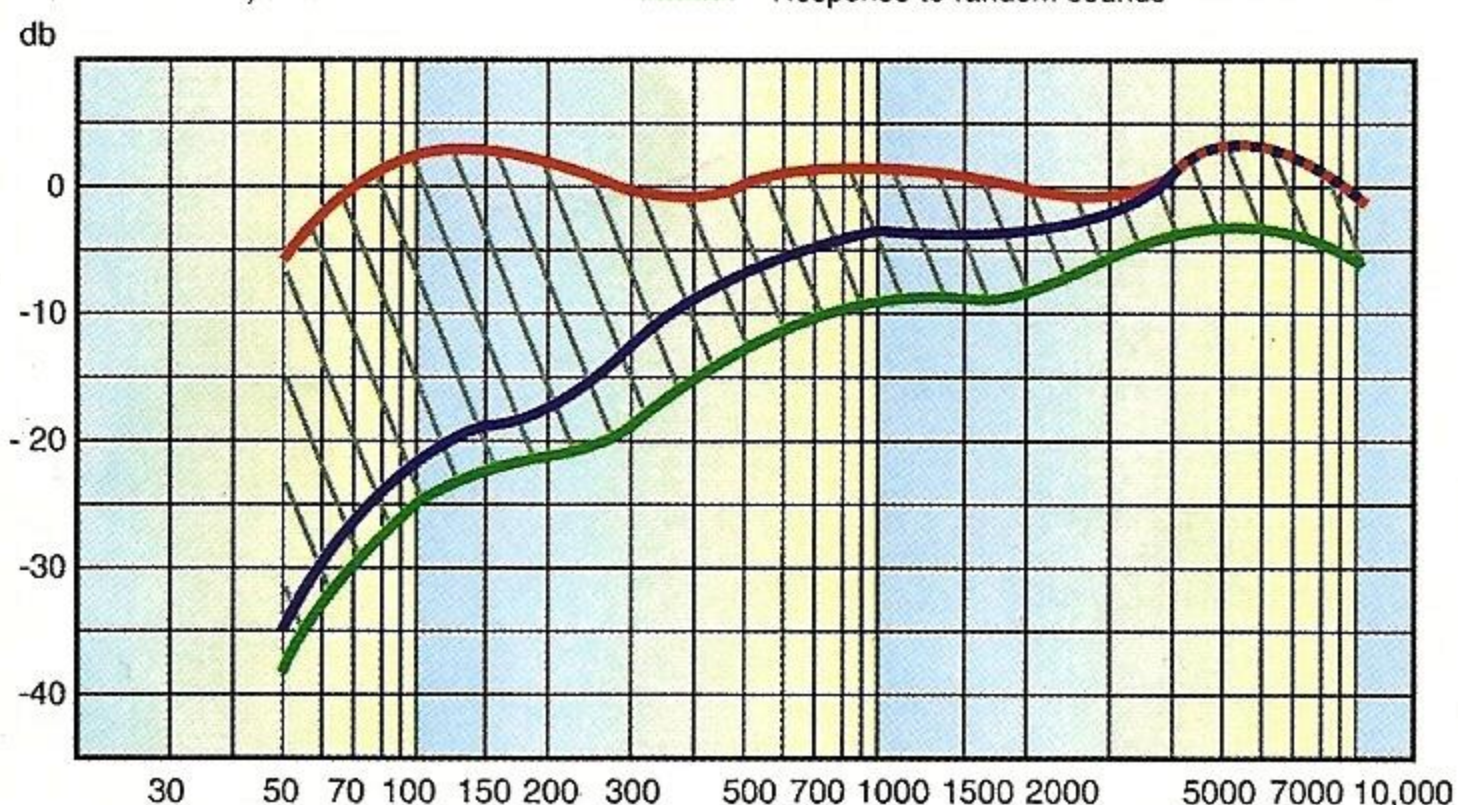
— = Response to Voice (close talking)

#### FREQUENCY RESPONSE

60 Hz to 12,000 Hz.

— = Response to distant sounds on microphone axis

— = Response to random sounds



All microphones factory tested in free field conditions.

#### IMPEDANCE

300 OHM.

#### SENSITIVITY

-50 dB W.R.T. IV/Pa.

#### EQUIVALENT ELECTRO-MAGNETIC HUM PICK UP

Less than 0.0002 dynes/cm<sup>2</sup> equivalent acoustic input for 1 milligauss at 50 c/s.

#### DISTORTION

Less than 1% at 120 dB SPL.

#### BODY HOUSING

Brass perforated case with stainless nose and mouth screens, pvc covered handle designed to provide a natural holding position for long periods.

#### CONNECTION

By means of an XLR 3 pin plug – Pin 1 screen – Pin 2 positive – Pin 3 negative.

#### DIMENSIONS

8" (200 mm) long x 2 1/4" (57 mm) wide x 3" (76 mm) deep.

#### WEIGHT

10 OZ. (283 g).

#### FINISH

Body brown enamel paint with brown pvc covered handle.

#### PACKAGING

Each microphone comes in a foam lined rigid plastic carrying case for safe keeping.

#### ACCESSORY

Replacement washable plastic hygiene screen, packed in 10's.  
Foam lined rigid plastic carrying case.

#### OPTIONAL

Press to talk button.

- ★ Light in weight, robust in construction.

- ★ Ideal for commentating and reporting purposes where background noise level is high.

- ★ Good discrimination between unwanted and wanted sounds.

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Electroacoustics Ltd.

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ENGLAND

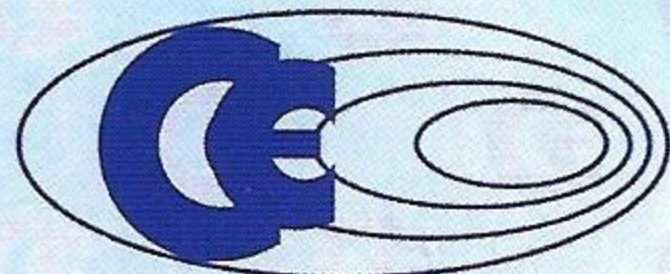
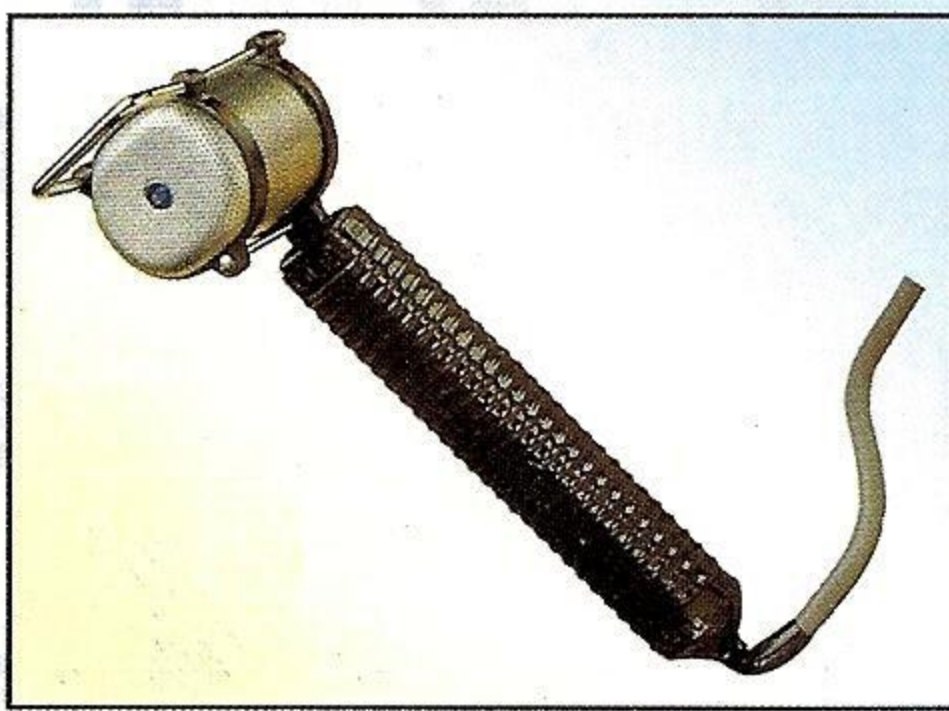
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- ★ Balanced response coming from mouth and nose for clear natural speech reproduction.

- ★ Suppresses disturbing noise from lips and nostrils.

- ★ Clear individual commentary without mutual cross over talk.





# Coles

4115  
BROADCASTER'S  
RIBBON MICROPHONE

- ★ Up to 20 dB reduction of middle and low frequency interfering sounds.
- ★ Close talking without breath or pop noises.
- ★ Broadcast quality speech reproduction.

The 4115 Broadcaster's Noise Cancelling Ribbon Microphone is used for close indoor talking situations where good quality broadcasting and public address announcement speech is required to be reproduced in conditions with high background noise present.

The 4115 has a proven reliable performance capability, being since its introduction, used by broadcasters throughout the world.

The high degree of acoustic damping applied to the robust corrugated aluminium ribbon ensures freedom from resonance and relative immunity to handling noises and mechanical shocks.

#### MODEL 4115 NOISE CANCELLING

Pressure gradient transducer ribbon microphone.

#### RIBBON

Corrugated aluminium ribbon protected by fine woven nylon gauze.

#### POLAR RESPONSE

Bi-directional.

#### FREQUENCY RESPONSE

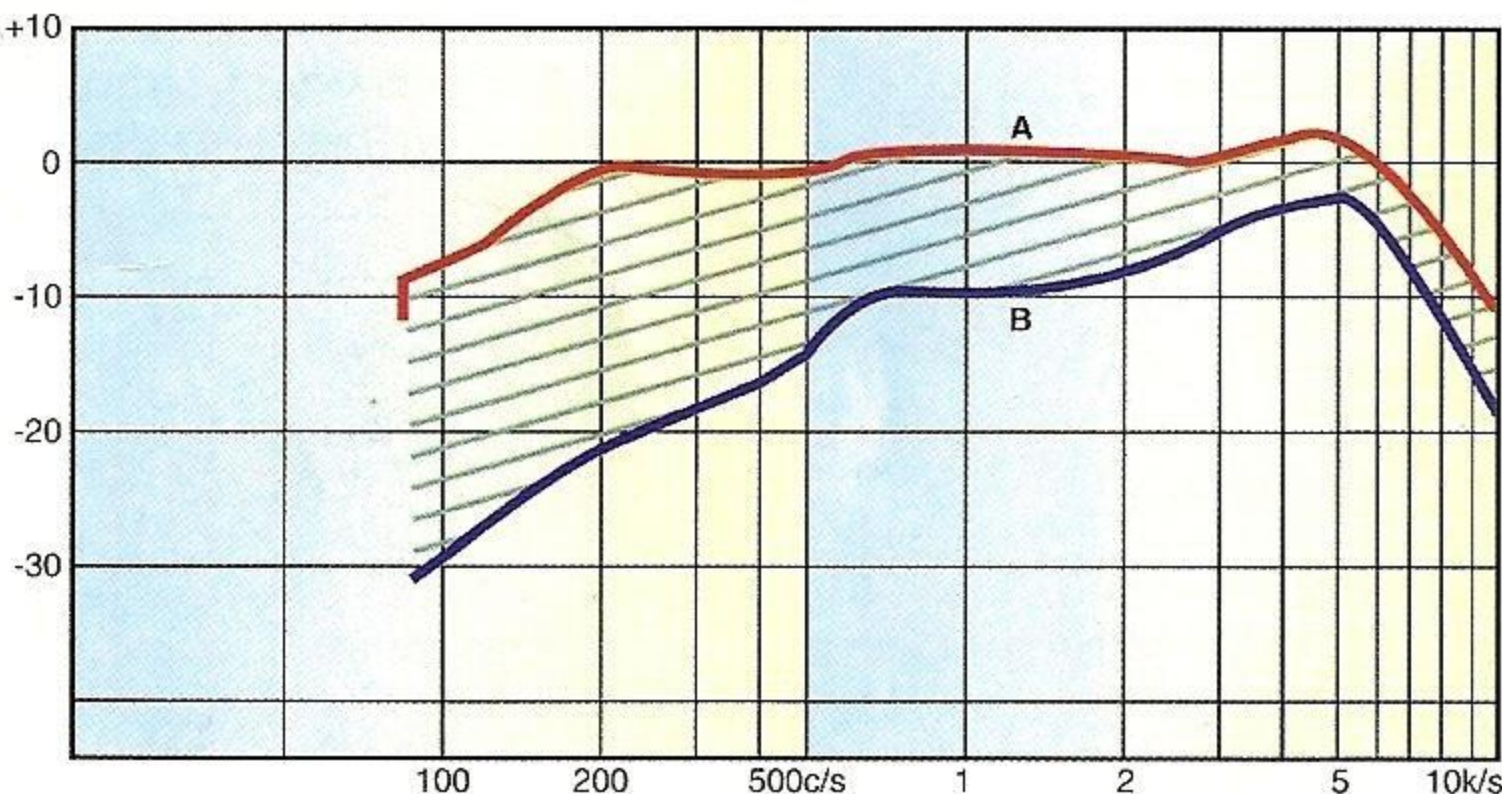
80 Hz to 8,000 Hz.



Effective noise cancellation

**A** Close talking response

**B** Response to distant random sounds



#### DISTORTION

Less than 1% at 120 dB SPL.

#### BODY HOUSING

Steel perforated case supported in aluminium frame with pvc covered handle designed to provide a natural holding position for long periods.

#### CONNECTING CABLE

2 core and screen 30 ft. (9.1 metres)

#### DIMENSIONS

8" (20.3 cm) long x 2" (5.08 cm) width x 1 1/2" (3.81 cm) deep.

#### WEIGHT

10 oz. (280 Kg).

#### FINISH

Body satin chrome and brown enamel paint with brown pvc covered handle.

#### PACKAGING

Each microphone comes in a foam lined rigid plastic carrying case for safe keeping.

#### OPTIONAL

Press to talk button.

#### ASSESSORY

Foam lined rigid plastic carrying case.

All microphones factory tested in free field conditions.

#### IMPEDANCE

300 ohm.

#### SENSITIVITY

-50 dB W.R.T. IV/Pa.

★ High sensitivity combined with light weight.

★ Lip bar to maintain correct distance for speech output.

★ Discrimination against other sound sources from very close range.

## COLES Electroacoustics Ltd.

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★ Gives high output level to normal speech.

★ Obviates unpleasant blasting effects from explosive consonants

★ Clear natural reproduction of speech free from disturbing effects

