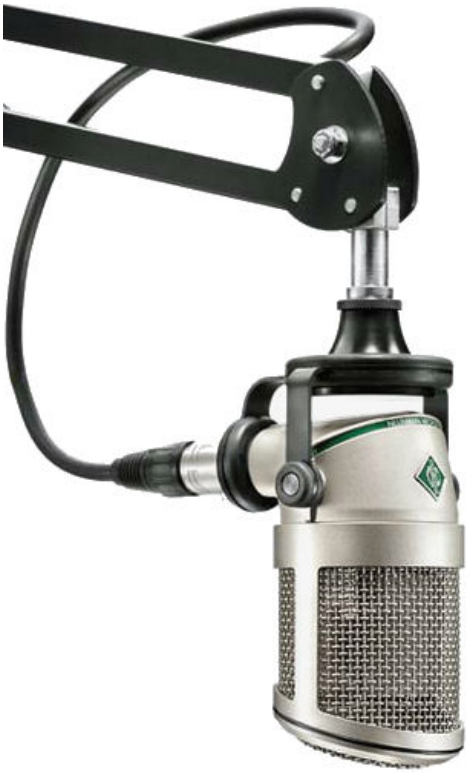

92-859 NEUMANN BCM 705 MICROPHONE

The first Neumann microphone with a dynamic capsule. Functionally optimized design specifically for the broadcast field, featuring integrated pop protection, suppression of structure-borne noise and a hypercardioid directional characteristic.

Emotion conveyed with technical perfection. This is the ideal which the Neumann microphones in the Broadcast Line have been designed to fulfil. The fine-tuning to the requirements of professional broadcast studios and the individual, functionally optimized design* ensure that these are microphones of character.

The BCM 705 is Neumann's first dynamic microphone. The housing and head grille are identical to those of the BCM 104; only the green logo indicates that this is something new from Neumann. The principle of reduction to the essentials can be seen in the dynamic capsule with a hypercardioid directional characteristic, specifically designed for speech reproduction at close range. Multi-level isolation from structure-borne noise ensures operation free of interference, even in a lively studio environment.

Mechanical Features

The microphone head grille twists off easily for quick cleaning. Neumann offers optional, colour-coded head grilles so that, for reasons of hygiene, each announcer can use his or her individual head grille.

The microphones of the Broadcast Line have an elastic mount against structure-borne noise, that is compatible with standard broadcast-segment microphone arms.

Acoustic features

The frequency response has a light treble boost, in the region from 2 kHz to 9 kHz, aiding the speech intelligibility. The bass frequency response is designed to compensate for the overemphasis of the bass caused by the proximity effect.

The integrated Pop Screen

A pop screen not only prevents the occurrence of plosive pop noises in vocal recordings, but also efficiently prevents unwanted particles, from respiratory moisture, nicotine, to food remnants, from settling on the diaphragm.

Mounting

The preferred mode of operation is to suspend the BCM 104 or BCM 705 from a standard studio boom arm.

A thread adapter to fit different connector threads is included. In order to provide protection from structure-borne noise, both the capsule and the microphone in its mount are elastically suspended.

The optional SG 5 swivel mount allows additional angling of the microphone by +/-90 degrees.

* The design of the microphone is a registered design of the Georg Neumann GmbH in certain countries.

Technical Data:

Acoustical operating principle	Pressure gradient transducer
Directional pattern	Hypercardioid
Frequency range	20 Hz ... 20 kHz
Sensitivity at 1 kHz into 10 kohm	1.7 mV/Pa
Rated impedance	200 ohms
Rated load impedance	10 kohms
Equivalent noise level, CCIR1)	32 dB
Equivalent noise level, A-weighted1)	18 dB-A
Signal-to-noise ratio, CCIR1) (rel. 94 dB SPL)	62 dB
Signal-to-noise ratio, A-weighted1) (rel. 94 dB SPL)	76 dB
Weight	500 g
Diameter	64 mm
Length	85 mm
Height (without suspension)	110 mm

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1) according to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS