

ECM-44B

Affordable omni-directional lavalier Electret condenser microphone



Overview

Sony has produced over five million professional ECM (Electret Condenser Microphones) microphones and the ECM-44 is the affordable, general voice model. It provides good sound quality and is widely used in business presentation systems and TV production. The ECM-44 is available in four versions, featuring different connector types. This model, ECM-44B, is the XLR version with power barrel for use as a wired microphone.

Convenient to use

The ECM-44 is an affordable alternative to the traditional hand held microphone and being 'hands free' it allows the presenter to concentrate on her/his performance

Professional image

Either 'in front of camera' or at a business presentation the ECM-44 creates a professional and tidy image.

Easy to use

It can often be difficult to achieve good quality voice pick-up but the ECM-44 can help get good results. The microphone's capsule is designed for general voice pick-up with a mid-frequency emphasis characteristic and a suitable frequency response.

Features

Tuned for voice pick-up

The ECM-44's capsule features an emphasis curve and a suitable frequency response for voice pick-up.

Compact size

The capsule has a diameter of only 8.5mm and is 14.5mm long.

Ready for wired applications

The ECM-44B is the wired version with an XLR output and integral power supply barrel. This version is to be powered internally by battery (LR6 or AA size). A single AA battery will provide several thousand hours of use.

Specifications

Audio Section	
Capsule Type	Electret Condenser
Frequency Response	40 Hz to 15kHz
Directivity	Omni-directional
Sensitivity *[1]	-53.0 dB \pm 3 dB
Output Impedance * [2]	250 Ω \pm 20%, Balanced
Dynamic Range	90 dB or more
Signal-to-Noise Ratio *[3]	62 dB or more
Inherent Noise *[4]	32 dB SPL or less
Induction Noise From	

External Magnetic Field *[5]	5 dB SPL or less
Wind Noise *[6]	40 dB SPL or less (with windscreen)
Maximum Input Sound Pressure Level *[7]	122 dB SPL

General Section

Connector	B type. Supplied with XLR-3-12C (male) connector in power supply unit (single AA size battery)
Mic Cable	9.8 feet 3 m
Power Requirements	Phantom Power Not Supported DC 1.5 V (AA size battery)
Battery Operating Time	Approx. 6000 h (LR6)
Power Consumption	0.3 mA or less
Dimensions *[8]	φ8.5 x 14.5 mm (Mic head) φ20.0 x 126 mm (Power unit XLR type) φ13/16 x 5 inches (Power unit XLR type)

	φ11/32 x 19/32 inches (Mic head)
Mass	Approx. 4.3 oz (with power supply unit) Approx. 121 g (with power supply unit)
Supplied Accessories	Urethane type windscreen (1) Single/horizontal type tie clip (1) Operating instructions (1) Mic case (1)
Optional Accessories	Wind screen pack Horizontal single-clip pack

Notes

Note	<p>*[1] 0 dB = 1 V/Pa, at 1 kHz</p> <p>*[2] Output impedance at 1 kHz</p> <p>*[3] A-weighted, 1 kHz, 1 Pa.</p> <p>*[4] 0 dB SPL = 20 μPa.</p> <p>*[5] dB SPL/1E-7 T, 0 dB SPL = 20 μPa.</p> <p>*[6] Wind noise at 2m/s (0 dB SPL = 20 μPa.)</p> <p>*[7] 0 dB SPL = 20 μPa.</p> <p>*[8] The values for dimensions are approximate.</p>
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Gallery

