SONY

ECM-90BC

Electret condenser microphone

Overview

Ultra-miniature, omni-directional electret condenser lavalier microphone designed for quality-critical applications in ENG, Studio, EFP, and Location Sound applications. Dual diaphragm design contributes to high sensitivity, wide dynamic range, and low noise. Generous diaphragm mounting architecture radically reduces common cable noise associated with lavalier microphone designs. Flat and wide frequency response (20Hz – 20kHz) provides natural sound reproduction. Water resistant design maintains sound clarity in almost any application or environment. Shielded for use with digital wireless transmitters.

Specifications

Audio Section	
Capsule Type	Electret Condenser
Frequency Response	20 Hz to 20 kHz
Directivity	Omni-directional
Sensitivity *[1]	−38 dB (12.6mV)
Output Impedance *[2]	2.5 kΩ (unbalanced)

Dynamic Range (typ.)	99 dB
Signal-to-Noise Ratio (typ.) *[3]	68 dB
Inherent Noise (typ.) *[4]	26 dB SPL
Wind Noise *[5]	45 dB SPL or less (with supplied windscreen)
Maximum Input Sound Pressure Level (typ.) *[6]	125 dB SPL

General Section

Connector	BC type. Supplied with Sony 4-pin (SMC9-4P) connector
Mic Cable	3.9 feet 1.2 m
Power Requirements	DC 1.1 V to 10.0 V
Dimensions *[7]	5/32 x 5/32 x 21/26 inches (Mic head) 3.5 x 3.5 x 20.5 mm (Mic head)
Mass (microphone body, excluding cable)	Approx. 0.035oz Approx. 1g

Supplied Accessories	Urethane type windscreen (1) Single/vertical type tie clip (1) Single/horisontal type tie clip (1) Operating instructions (1)
Optional Accessories	Wind screen pack Vertical clip pack Safety clip pack Horizontal clip pack Double clip pack Color windscreen pack Black windscreen pack Accessory kit

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

Gallery

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