

ECM-88B

Electret condenser microphone



Overview

Ultra-miniature, omni-directional electret condenser lavalier microphone designed for quality-critical applications in studio broadcasting. 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.

Specifications

Audio Section

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| Capsule Type | Electret Condenser |
| Frequency Response | 20 Hz to 20 kHz |
| Directivity | Omni-directional |
| Sensitivity *[1] | -52 dB +/- 2 dB (when used with DC-78), (-39.0 dB 11.2 mV for BC) |
| Output Impedance * | 30Ω ± 30%, Unbalanced 100Ω ± 20%, Balanced (when used |

| | |
|---|---|
| [2] | with DC-78) |
| Dynamic Range | 99 dB or more |
| Signal-to-Noise Ratio *[3] | 68 dB or more |
| Inherent Noise *[4] | 26 dB SPL or less |
| Induction Noise From External Magnetic Field *[5] | 5 dB SPL or less |
| Wind Noise *[6] | 45 dB SPL or less (with supplied windscreen) |
| Maximum Input Sound Pressure Level *[7] | 125 dB SPL |

General Section

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| Connector | SMC9-4P 4-pin on microphone. Also supplied with DC-78 Power Supply Unit for XLR-3-12C (male) output connection. |
| Mic Cable | 8.2 feet 2.5 m |
| | ECM-88B with DC-78 Power Supply |

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| Power Requirements | connected: Two-way powering; battery operation (AA-size battery) or external DC operation (12 V to 48 V) ECM-88B 4-pin connector: DC 1.1 V to 10.0 V. |
| Battery Operating Time | Approx. 6000 h (LR6) |
| Power Consumption | Internal battery: 0.3 mA or less External battery: 2 mA or less |
| Dimensions *[8] | $\phi 5/32 \times 11/16$ inches (Mic head) $\phi 3.5 \times 16.8$ mm (Mic head) $\phi 20 \times 144$ mm (DC-78 power unit) $\phi 13/16 \times 5 \ 3/4$ inches (DC-78 Power Unit) |
| Mass | Approx. 5.7 oz (with DC-78 power supply) Approx. 160 g (with DC-78 power supply) Approx. 0.7 oz (Mic Only) Approx. 0.5 g (Mic Only) |
| Supplied Accessories | Urethane type windscreen (1) Single/vertical type tie clip (1) Single/horizontal type tie clip (1) Operating instructions (1) Mic case (1) |

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| | <p>Ferrite clamp (1) Double/horizontal type tie clip (1) DC-78 DC Power Supply Unit (1)</p> |
| Optional Accessories | <p>Wind screen pack Vertical clip pack Safety clip pack Horizontal clip pack Double clip pack Color windscreen pack Black windscreen pack Accessory kit</p> |

Notes

- Note
- *[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? Pa.
 - *[5] dB SPL/1E-7 T, 0 dB SPL = 20? Pa.
 - *[6] Wind noise at 2m/s (0 dB SPL = 20?Pa.)
 - *[7] 0 dB SPL = 20? Pa.
 - *[8] The values for dimensions are approximate.

Gallery

