

ECM-90LM

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] | −40 dB (10mV) |
| Output Impedance * [2] | 6.3 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 | 3-pin Lemo connector |
| Mic Cable | 5.2 feet 1.6m |
| Power Requirements | Supplied from Sony wireless system transmitters |
| 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/horizontal 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 μ Pa |
| *[5] | Wind noise at 2m/s (0 dB SPL = 20 μ Pa) |
| *[6] | 0dB SPL = 20 μ Pa |
| *[7] | The values for dimensions are approximate. |

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