

ECM-77LM

Miniature omni-directional electret condenser microphone



Overview

Lavalier mic with excellent sound quality, ideal for use with DWT-B03R wireless transmitter

The Sony ECM-77 miniature lavalier microphone is seen in daily use on TV shows around the world, and is an equally familiar sight in both studio-based productions and on location.

A discreet 'hands-free' alternative to handheld microphones, its popularity is due to a combination of excellent sound quality, robust construction and an attractive cosmetic design. The miniature design of the ECM-77 makes it easy to conceal in a stage performer's costume.

The electret condenser microphone's omni-directional capsule is optimised for clear speech pick-up, with an extended frequency response, impressive sensitivity and low handling noise.

Featuring a 3-pin Lemo connector, this ECM-77LM version is an ideal partner for use with the DWT-B03R DWX Series digital wireless microphone bodypack transmitter.

Specifications

Audio Section

Capsule Type	Electret Condenser
Frequency Response	40 Hz to 20 kHz
Directivity	Omni-directional
Sensitivity *[1] [7]	-39.0 dB
Output Impedance *[2] [7]	6.3k Ω \pm 30%, Unbalanced
Dynamic Range	95 dB or more
Signal-to-Noise Ratio *[3]	64dB (typ.)
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]	127 dB SPL

General Section

Connector	Small 3-pin connector
Mic Cable	5.25 feet 1.6 m

Power Requirements	DC 3.0 V to 10.0V
Power Consumption	0.4 mA or less
Dimensions *[8]	φ5.6 X 12.5 mm (Mic head) φ1/4 X 1/2 inches (Mic head)
Mass	Approx. 1.5 g (without cable) Approx. 0.053 oz (without cable)
Supplied Accessories	Single/horizontal type tie clip (1) Metal-mesh type windscreen (1)
Optional Accessories	Wind screen pack Vertical clip pack Safety pin type clip pack Horizontal double-clip pack Horizontal single-clip pack ECM-77 accessory kit Colored wind screen kit Black windscreen for ECM-77

Notes

Notes	<p>*[1] 0 dB = 1 V/Pa, at 1 kHz</p> <p>*[2] Output impedance at 1 kHz</p> <p>*[3] IEC 179,A-weighted, 1 kHz, 1 Pa.</p> <p>*[4] 0dB = 20 μPa</p> <p>*[5] dB SPL/1E-7 T</p> <p>*[6] Wind noise at 2m/s (0 dB SPL = 20 μPa)</p>
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*[7] Vdd : 5.5V, RL : 8.2kΩ

*[8] The values for dimensions are approximate.

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