

ECM-674

Affordable shotgun Electret condenser microphone



Overview

The ECM-674 is an affordable shotgun-type electret condenser microphone, which delivers excellent sound performance in field and studio productions.

Superb Sound Quality

The ECM-674 offers an excellent sensitivity of -36 dB (0 dB=1 V/Pa.) and low inherent-noise level of less than 17 dB SPL. This allows the microphone to be used for clear voice pick-up even in noisy environments

Two-way Powering

A two-way powering capability allows the ECM-674 to be driven by microphone power or batteries, making it suitable for both camcorder mounting and many other sound-gathering applications. Internal: AA-size battery operation. External: DC (40 to 52 V) operation

Built-in Battery Liquid Leakage Protection Circuit

In general, old batteries can leak and damage the equipment they are used in. The ECM-674 prevents this by continually detecting the output voltage of the battery and shutting off the power supplied to the electric circuit whenever the voltage drops beneath a certain threshold.

Features

Flat-and-wide Frequency Response

The ECM-674 microphone has a flat-and-wide frequency response (40 Hz to 20 kHz) and provides sound reproduction that is extremely smooth and natural

Compact and Lightweight Design

The ECM-674 has been designed as a highly directional compact and lightweight shotgun microphone. It measures only 268 mm (10 5/8 inches) in length and weighs just 185 g (6.5 oz), maintaining good balance even when mounted on compact camcorders.

Built-in Low Cut Filter

The built-in two-position (M, V) low-cut switch provides users with a simple method of reducing the effects of undesired ambient noise.

Specifications

Audio Section

Capsule Type	Mono Electret Condenser
Frequency Response	40 Hz to 20 kHz
Directivity	Uni-directional (super-cardioid)
Sensitivity *[1]	-36 dB \pm 3 dB
Output Impedance * [2]	220 Ω \pm 20%, Balanced
Dynamic Range	Phantom: 107 dB or more Battery: 98 dB or more
Signal-to-Noise Ratio	

*[3]	77 dB or more
Inherent Noise *[4]	17 dB SPL or less
Induction Noise From External Magnetic Field *[5]	0 dB SPL or less
Wind Noise *[6]	50 dB SPL (without windscreen) 45 dB SPL or less (with windscreen)
Maximum Input Sound Pressure Level *[7]	Phantom: 124 dB SPL Battery: 115 dB SPL

General Section

Connector	XLR-3-12C (male)
Mic Cable	XLR-3 to XLR-3 500 mm 19.6 inches
Power Requirements	External: DC 40 V to 52 V Battery: 1.5 V
Dimensions *[8]	φ20 x 268 mm φ13/16 x 10 5/8 inches
	Approx. 7.3 oz with battery Approx. 6.5 oz without battery

Mass	Approx. 208 g with battery Approx. 185 g without battery
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Supplied Accessories	<p>Windscreen (1)</p> <p>Stand adaptor (2)</p> <p>Short XLR cable</p> <p>Operating instructions (1)</p> <p>Mic spacer (2)</p> <p>Mic holder (1)</p>
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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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