

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

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|---------------------------|---------------------------------------------------|
| 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 | |

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|---------------------------------------------------|-----------------------------------------------------------------------|
| *[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

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| 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 |

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

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| 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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