

ELECTRET CONDENSER
MICROPHONE

ECM-674



OUTLINE

The Sony ECM-674 is an affordable shotgun-type electret condenser microphone, which delivers excellent sound performance in field and studio productions. Offering high-sensitivity, low-noise characteristics and flat-and-wide frequency response in a compact and lightweight design, the ECM-674 is well-suited for use with Sony camcorders such as the HDV™ Series, DVCAM™ Series, and XDCAM™ Series. In addition, its two-way powering feature allows for both microphone power operation and battery operation. With its high performance, affordable price, and great versatility, the ECM-674 microphone is an ideal choice for a range of sound-acquisition applications.

FEATURES

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.

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 10 5/8 inches (268 mm) in length and weighs just 6.5 oz (185 g), maintaining good balance even when mounted on compact camcorders.

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 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.

Built-in Battery Liquid Leakage Protection Circuit

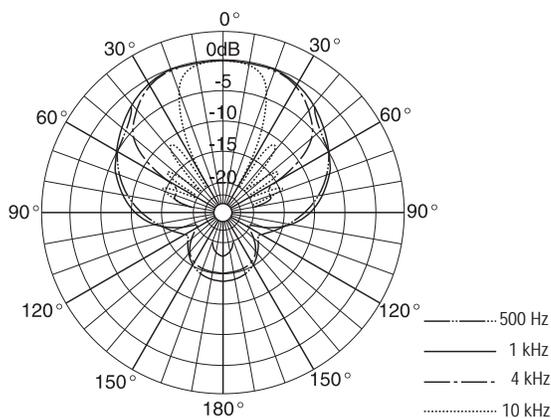
In general, old batteries can leak and damage the equipment they are used in. The ECM-674 helps prevent this by continually detecting the output voltage of the battery and shutting off the power supplied to the electric circuit whenever the voltage drops beneath a certain threshold.

SPECIFICATIONS

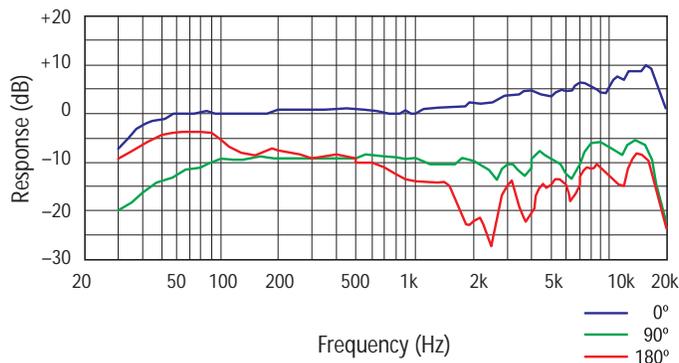
ECM-674	
Capsule type	Electret condenser
Directivity	Uni-directional (super-cardioid)
Frequency response	40 Hz to 20 kHz
Sensitivity (at 1 kHz)	-36 dB ^{*1} ±3 dB
Output impedance (at 1 kHz)	220 Ω ±20%
Dynamic range	Phantom: 107 dB or more, Battery: 98 dB or more
Signal-to-noise ratio	77 dB or more (IEC179 A-weighted, 1 kHz, 1Pa.)
Inherent noise	17 dB SPL ^{*2} or less
Wind noise	45 dB SPL ^{*2} or less (with windscreen), 50 dB SPL ^{*2} or less (without windscreen)
Induction noise from external magnetic field	0 dB SPL ^{*2} or less
Maximum input sound pressure level	Phantom: 124 dB SPL ^{*2} , Battery: 115 dB SPL ^{*2}
Power requirements	External: DC 40 to 52 V, Battery: 1.5 V
Dimensions	ø ¹³ / ₁₆ x 10 ⁵ / ₈ inches (ø20 x 268 mm)
Weight	Approx. 6.5 oz (185 g) without battery Approx. 7.3 oz (208 g) with battery

*1 0 dB=1 V/Pa., at 1 kHz

*2 0 dB=20µ Pa.



Directivity Characteristics



Frequency Response Characteristics

SUPPLIED ACCESSORIES

- Windscreen (x1)
- Microphone holder (x1)
- Microphone spacer (x1)
- Microphone cable (x1)
- Operating instructions (x1)



SONY

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