

# SONY®

## Electret Condenser Microphone **ECM-88/88PT**

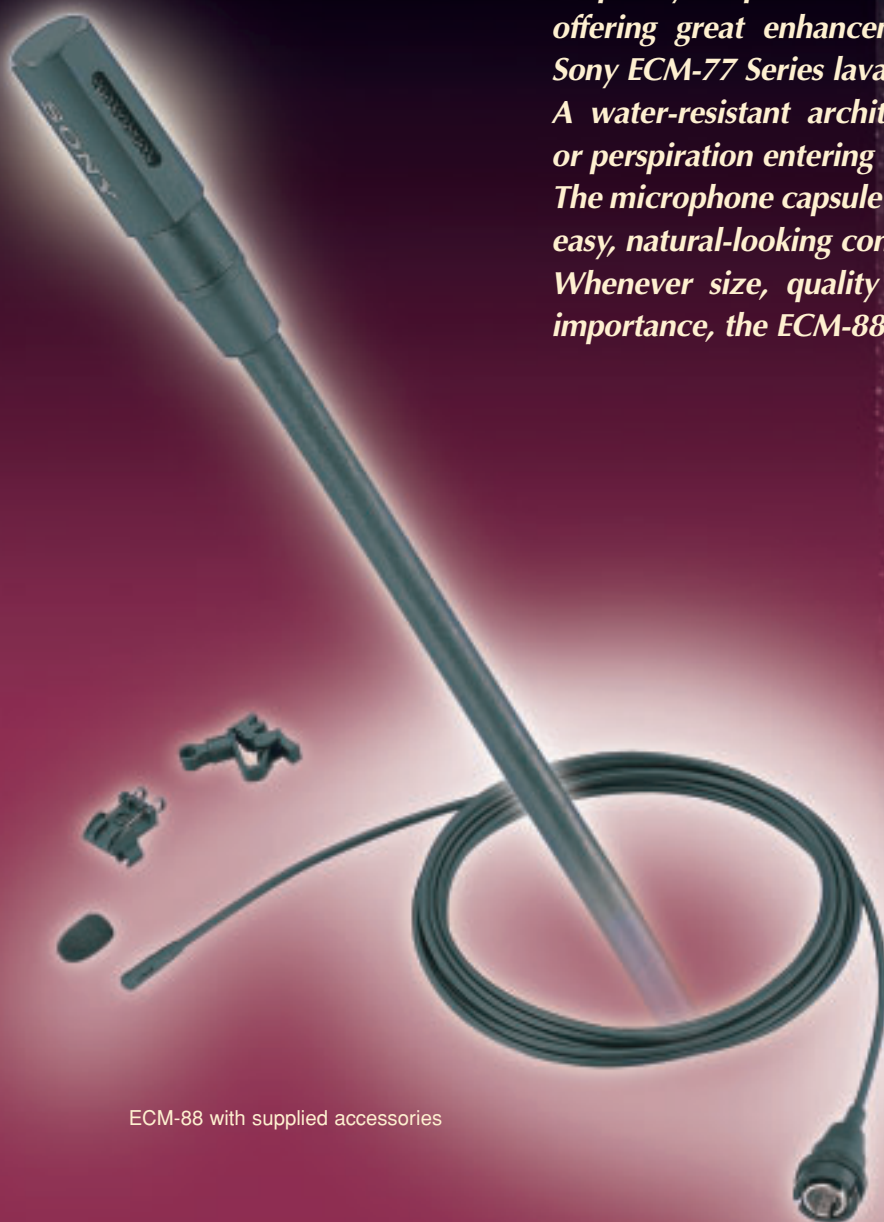
*The ECM-88 and ECM-88PT are extremely miniature, omni-directional electret-condenser microphones, ideal for quality-critical applications in broadcasting, theater, and field productions.*

*These microphones achieve a high-sensitivity, flat-and-wide frequency response and low noise characteristics, while offering great enhancements over the market-acclaimed Sony ECM-77 Series lavalier microphones.*

*A water-resistant architecture reduces the risk of water or perspiration entering the microphone capsule.*

*The microphone capsule is 3.5 x 3.5 x 16.8 mm, allowing for easy, natural-looking concealment in a stage costume.*

*Whenever size, quality and reliability are of paramount importance, the ECM-88 Series offers the perfect solution.*

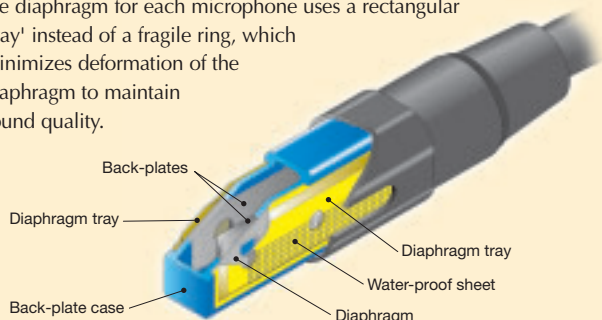


ECM-88 with supplied accessories

# Features

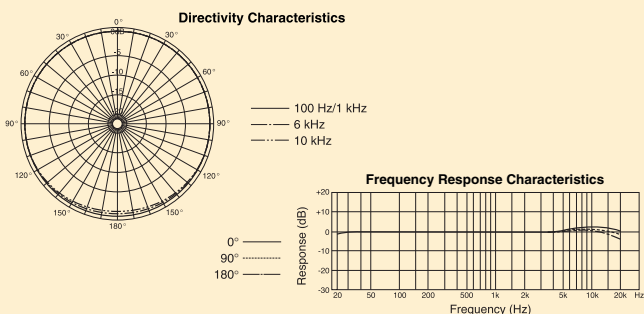
## Dual-Diaphragm Mechanism

ECM-88/88PT electret condenser microphones use a dual-diaphragm mechanism, which contributes to their high sensitivity and low inherent noise characteristics. The diaphragm and back-plates are fixed vertically to the microphone capsule, which effectively reduces the mechanical noise caused by cable vibration and friction. In addition, the diaphragm for each microphone uses a rectangular 'tray' instead of a fragile ring, which minimizes deformation of the diaphragm to maintain sound quality.



## Flat-and-Wide Frequency Response

The ECM-88 Series provides a flat-and-wide frequency response (20 Hz to 20 kHz), which provides natural sound reproduction. This enables the operator to add sound effects easily during the mixing process.

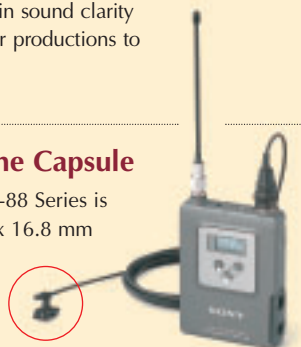


## Water-Resistant Design

A water-resistant architecture is used within each microphone capsule, preventing water or perspiration from entering the capsule and, in turn, reducing damage to the diaphragm. This architecture allows the ECM-88/88PT microphones to maintain sound clarity in almost any application from theater productions to location recordings.

## Ultra-Compact Microphone Capsule

The microphone capsule of the ECM-88 Series is also ultra compact, at just 3.5 x 3.5 x 16.8 mm (5/32 x 5/32 x 11/16 inch). This miniature design makes it easy to conceal.



ECM-88 with WRT-8B Bodypack Transmitter

## Two Types of Termination

Two types of termination are available, allowing users to choose the most appropriate output connector to meet their specific requirements.

**ECM-88:** Supplied with a Sony 4-pin connector (SMC9-4P), for use with the DC-78 power-supply unit or the WRT-8B wireless bodypack transmitter.

**ECM-88PT:** Offered without a connector (pigtail), so users can choose the connectors according to their transmitter.

## Two Types of Microphone Holders

The ECM-88 includes two types of microphone holders: double-pin and tie-clip. A urethane windscreens is also included.



## Optional Accessory

### DC-78 DC Power Supply Unit

- Designed for use with the ECM-88 and Sony lavalier microphones equipped with an SMC9-4P connector.
- Two-way powering: battery operation (using an AA-size (LR6) alkaline battery) or external DC operation (12 to 48 V).
- Supplied with an SMC9-4S input connector and an XLR 3-pin output connector.



DC-78

# Specifications

### ECM-88/88PT Electret Condenser Microphones

Capsule type	Electret condenser
Directivity	Omni-directional
Frequency response	20 Hz to 20 kHz
Sensitivity (at 1 kHz)	-52 dB <sup>1</sup> ±2 dB (when used in combination with the DC-78) -38 dB <sup>1</sup> (12.6 mV)
Output impedance (at 1 kHz)	100 Ω ±20% (when used in combination with the DC-78) 2.5 kΩ ±30%
Dynamic range	99 dB or more
Signal-to-noise ratio	68 dB or more (A-weighted, 1 kHz, 1 Pa.)
Inherent noise	26 dB SPL <sup>2</sup> or less (A-weighted, 1 kHz, 1 Pa.)
Wind noise	45 dB SPL <sup>2</sup> or less (when using the supplied windscreen)
Induction noise from external magnetic field	5 dB SPL <sup>2</sup> or less
Maximum input sound pressure level	(when used in combination with the DC-78) 125 dB SPL <sup>2</sup>
Cable length	8.2 feet (2.5 m)
Output connector	ECM-88: Sony SMC9-4P ECM-88PT: no connector (pigtail)
Power requirements	DC 1.1 to 10.0 V
Dimensions (microphone capsule)	5/32 x 5/32 x 11/16 inch (3.5 x 3.5 x 16.8 (h) mm)
Weight	ECM-88: 32 g (including microphone cable) ECM-88PT: 20 g (including microphone cable)
Supplied accessories	ECM-88: Microphone holder (x 2, tie-clip and double-pin types), urethane windscreen (x 1), carrying case (x 1), operating instructions (x 1) ECM-88PT: Operating instructions (x 1)

### DC-78 Power Supply Unit

Power requirements	Internal battery: DC 1.5 V (AA-size (LR6) alkaline battery) External battery: DC 12 to 48 V
Battery life	Approx. 6000 h
Input connector	Sony SMC9-4S
Output connector	XLR-3-12C type
Dimensions	1 3/16 x 5 3/4 inches (20.0 dia. x 144.0 (h) mm)
Weight	Approx. 4.59 oz (130 g) including batteries
Supplied accessory	Operating instructions (x 1)

<sup>1</sup> 0 dB = 1V/Pa., at 1 kHz    <sup>2</sup> 0 dB SPL = 20μ Pa.

**SONY**

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