

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

As well as offering a high sensitivity, flat-and-wide frequency response and low noise characteristics, these microphones also provide other significant enhancements.

A water-resistant architecture reduces the risk of water or perspiration entering the microphone capsule. The capsule itself is just 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 Sony ECM-88 Series offers the perfect solution.



ECM-88BC with supplied accessories

ECM-88B
ECM-88BC
ECM-88BPT
ECM-88FPT

FEATURES

Dual-Diaphragm Mechanism *fig 1*

The ECM-88 Series electret condenser microphone uses a dual-diaphragm mechanism, which contributes to their high sensitivity and low inherent noise characteristics. The diaphragm and backplates 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 *fig 2*

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.

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 extremely easy to conceal.

Water-Resistant Design

A water-resistant architecture is used within each microphone capsule, helping to prevent water or perspiration from entering the capsule and, in turn, reducing the possibility of damage to the diaphragm. This architecture allows ECM-88 Series lavalier microphones to maintain sound clarity in almost any application or environment, from theater productions to location-based recording.

Choice of Models

The ECM-88 Series consists of four models: the ECM-88B, ECM-88BC, ECM-88BPT, and ECM-88FPT. This gives users the flexibility to choose the most appropriate microphone color and connector for their specific requirements.

ECM-88B: Black-colored model supplied with a DC-78 DC Power Supply Unit. Two-way powering possible - internal AA-size (LR6) alkaline-battery operation or external DC (12 to 48 V) operation.

ECM-88BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the Sony WRT-8B/822A/822B wireless bodypack transmitter. The cable is 1.2 meters (3.9 feet) long.

ECM-88BPT: Black-colored model supplied without a connector (pigtail), enabling users to choose the connectors according to their transmitter.

ECM-88FPT: Beige-colored model supplied without a connector (pigtail).

fig 1

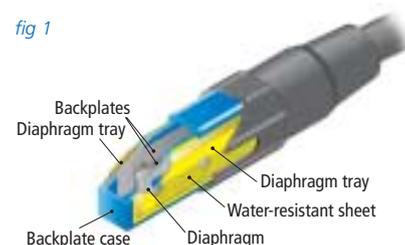
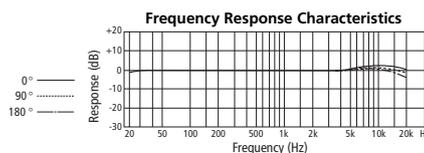
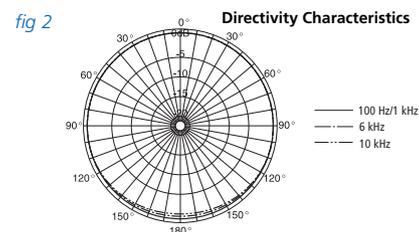


fig 2



Color variations

OPTIONAL ACCESSORIES

DC-78 DC Power Supply Unit*

- Designed for use with the ECM-88B/88BC and other Sony lavalier microphones equipped with an SMC9-4P connector.
- Two-way powering: can be powered using either an AA-size (LR6) alkaline battery or an external DC (12 to 48 V) power supply.
- Supplied with an SMC9-4S input connector and an XLR 3-pin output connector.
- Mass: approximately 130 g (4.6 oz) including battery.
- Dimensions: 20 cm diameter x 144 cm (1³/₁₆-inch diameter x 5 ³/₄ inches)
- Battery life: approximately 6,000 hours

* The ECM-88B is supplied with the DC-78.



AD-KIT88B Microphone Accessory Kit

- Includes four types of microphone clips (single/horizontal, single/vertical, double/horizontal, and safety-pin type tie clip) and six urethane windscreens (red, yellow, green, blue, gray, and black).



Each item contained in the AD-KIT88B kit is also available separately.

SAD-H88B	Single/Horizontal-type tie clip (6)
SAD-V88B	Single/Vertical-type tie clip (6)
SAD-W88BL	Double/Horizontal-type tie clip (6)
SAD-S88B	Safety-pin type microphone holder (6)
AD-C88	Color urethane windscreen (2 sets)
AD-R88B	Black urethane windscreen (12)



SAD-H88B



SAD-V88B



SAD-W88BL



SAD-S88B



AD-C88



AD-R88B

SPECIFICATIONS

ECM-88 Series Electret Condenser Microphones

Capsule type	Electret condenser
Directivity	Omni-directional
Frequency response	20 Hz to 20 kHz
Sensitivity	-52 dB ^{*1} ±2 dB (when used in combination with the DC-78) (at 1 kHz) -38 dB ^{*1} (12.6 mV)
Output impedance	100 Ω ±20% (when used in combination with the DC-78) (at 1 kHz) 2.5 kΩ ±30%
Dynamic range	99 dB or more
Signal-to-noise ratio	68 dB or more (A-weighted, 1 kHz, 1Pa.)
Inherent noise	26 dB SPL ^{*2} or less (A-weighted, 1 kHz, 1Pa.)
Wind noise	45 dB SPL ^{*2} or less (when using the supplied windscreen)
Induction noise from external magnetic field	5 dB SPL ^{*2} or less (when used in combination with the DC-78)
Maximum input sound pressure level	125 dB SPL ^{*2}
Cable length	ECM-88B/88BPT/88FPT: 2.5 m (8.2 feet) ECM-88BC: 1.2 m (3.9 feet)
Output connector	ECM-88B: XLR-3-12C (when used with the supplied DC-78) ECM-88BC: Sony SMC9-4P ECM-88BPT/88FPT: no connector (pigtail)
Power requirements	DC 1.1 to 10.0 V
Dimensions (microphone capsule)	3.5 x 3.5 x 16.8 (h) mm (⁵ / ₃₂ x ⁵ / ₃₂ x ¹¹ / ₁₆ inch) Clip attachment area: 3.9 mm (⁵ / ₃₂ inch) diameter
Mass	ECM-88B: 32 g (1.1 oz) (including microphone cable) 162 g (5.7 oz) with the supplied DC-78 ECM-88BC: 22 g (0.7 oz) (including microphone cable) ECM-88BPT/88FPT: 20 g (including microphone cable)
Supplied accessories	ECM-88B: S.H. tie clip (1), S.V. tie clip (1), S: Single type D: Double type H: Horizontal type V: Vertical type D.H. tie clip (1), urethane windscreen (1), DC-78 DC power supply unit (1), microphone case (1), ferrite clamp (1), operating instructions (1) ECM-88BC/88BPT: S.H. tie clip (1), S.V. tie clip (1), urethane windscreen (1), ferrite clamp (1), operating instructions (1) ECM-88FPT: Ferrite clamp (1), operating instructions (1)

*1 0 dB = 1V/Pa., at 1 kHz *2 0 dB SPL = 20μ Pa.

Distributed by

©2004 Sony Corporation. All rights reserved.
Reproduction in whole or in part without written permission is prohibited.
Features, design and specifications are subject to change without notice.
All non-metric mass and measurements are approximate.
Sony is a registered trademark of Sony Corporation.