

## OUTLINE

Sony **ECM-88** Series lavalier microphones are extremely miniature, omni-directional electret condenser microphones ideal for quality-critical applications in broadcasting, theatre 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 both television and stage productions. Whenever size, quality and reliability are of paramount importance, the Sony ECM-88 Series offers the perfect solution.

## 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 minimises 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 theatre 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 colour and connector for their specific requirements.

- ECM-88B** Black-coloured 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-coloured model supplied with a Sony 4-pin connector (SMC9-4P), for use with the Sony WRT-8B/822B wireless bodypack transmitter. The cable is 1.2 metres (3.9 feet) long.
- ECM-88BPT** Black-coloured model supplied without a connector (pigtail), enabling users to choose the connectors according to their transmitter.
- ECM-88BFP** Beige-coloured model supplied without a connector (pigtail).



Fig 1

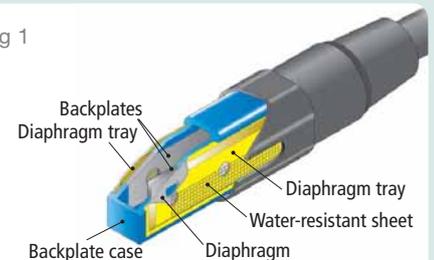
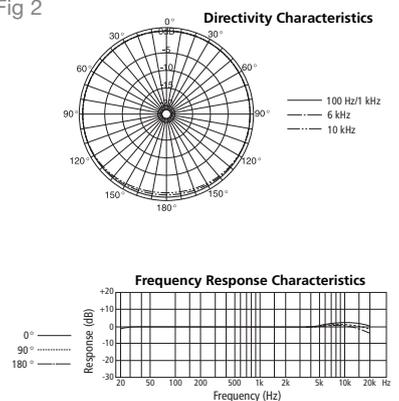


Fig 2



# ECM-88 Series

## ECM-88B/ECM-88BC/ECM-88BPT/ECM-88FPT

### ELECTRET CONDENSER MICROPHONE



## 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 (1<sup>3</sup>/<sub>16</sub>-inch diameter x 5 <sup>3</sup>/<sub>4</sub> 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, grey 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 Colour urethane windscreens (2 sets)
- AD-R88B Black urethane windscreen (12)



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## SPECIFICATIONS

Capsule type	Electret condenser
Directivity	Omni-directional
Frequency response	20 Hz to 20 kHz
Sensitivity (at 1 kHz)	-52 dB* ±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, 1Pa.)
Inherent noise	26 dB SPL** or less (A-weighted, 1 kHz, 1Pa.)
Wind noise	45 dB SPL** or less (when using the supplied windscreen)
Induction noise from external magnetic field	5 dB SPL** or less (when used in combination with the DC-78)
Maximum input sound pressure level	125 dB SPL**
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 (9/32 x 9/32 x 1 <sup>1</sup> / <sub>16</sub> inch)
Mass	Clip attachment area: 3.9 mm (9/32 inch) diameter 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), D.H. tie clip (1), urethane windscreen (1), DC-78 DC power supply unit (1), type 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)

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

\*\* 0 dB SPL = 20 μPa.

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