

ECM-88FPT

Miniature Electret condenser microphone



Overview

The ECM-88FPT is suitable for a wide range of applications in TV and live performance. Based on the experience of having produced over five million professional ECM microphones, the ECM-88FPT delivers exceptional audio performance in a tiny package. The ECM-88FPT is a beige-coloured model supplied without a connector (pigtail), enabling users to choose connectors according to their transmitter.

Versatile applications

The ECM-88's minute size means it can be used in a wide range of applications, including as an 'on camera, lapel mic' which can be sewn into a theatrical costume. Apart from voice amplification, the ECM-88 can be used for many other applications where space is limited or the microphone has to be concealed.

Superb sound quality and low handling noise

The ECM-88's 'dual rectangular diaphragm' structure delivers excellent sensitivity, low noise and a flat frequency response. This structure also minimises cable handling noise, improving its performance in challenging conditions, for example a windy outside broadcast.

Convenient packaging

The ECM-88 model is supplied in a robust carry case with 'tie-clip' and 'Dracula' type holders and space for the DC-78 power supply

unit. (ECM-88PT is not supplied with the holders).

Resilient construction

The ECM-88 has been designed for 'real life' environments, for example the microphone is water resistant so providing protection from sweat ingress.

Features

Miniature ECM capsule (3.5 x 3.5 x 16.8mm)

The ECM-88 capsule is approx 50% of the volume of the current Sony ECM-77 microphone.

Unique dual rectangular diaphragms

This structure allows the microphone to deliver impressive sound and noise handling performance.

Flat frequency response

The microphone has a flat frequency response and can therefore be used for voice and musical instrument recording.

Compatible with Sony wireless microphone systems

The ECM-88 model is terminated with a 4-pin connector that is compatible with certain Sony wireless transmitters (for example WRT-8B or WRT-822).

Ready for use as a wired microphone

Using the combination of the ECM-88 with the DC-78 power supply, allows the microphone to be configured as a wired microphone (with an XLR connector).

Specifications

Audio Section

Capsule Type

Electret Condenser

Frequency Response	20 Hz to 20 kHz
Directivity	Omni-directional
Sensitivity *[1]	-39.0 dB (11.2 mV)
Output Impedance * [2]	2.5kΩ±30%, Unbalanced
Dynamic Range	99 dB or more
Signal-to-Noise Ratio *[3]	68 dB or more
Inherent Noise *[4]	26 dB SPL or less
Induction Noise From External Magnetic Field *[5]	5 dB SPL or less
Wind Noise *[6]	45 dB SPL or less (with supplied windscreen)
Maximum Input Sound Pressure Level *[7]	125 dB SPL

General Section

Connector	No connector (pigtail) with beige color
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Mic Cable	8.2 feet 2.5 m
Power Requirements	DC 1.1 V to 10.0 V
Power Consumption	0.4 mA or less
Dimensions * ^[8]	φ5/32 x 11/16 inches (Mic head) φ3.5 x 16.8 mm (Mic head)
Mass	Approx. 0.7 oz Approx. 0.5 g
Supplied Accessories	Operating instructions (1) Fetile clamp (1)
Optional Accessories	Wind screen pack Vertical clip pack Safety clip pack Horizontal clip pack Double clip pack Color windscreen pack Black windscreen pack Accessory kit

Notes

*^[1] 0 dB = 1 V/Pa, at 1 kHz

*^[2] Output impedance at 1 kHz

*^[3] A-weighted, 1 kHz, 1 Pa.

*^[4] 0dB SPL = 20? Pa.

Note

*[5] dB SPL/1E-7 T, 0 dB SPL = 20? Pa.

*[6] Wind noise at 2m/s (0 dB SPL = 20?Pa.)

*[7] 0 dB SPL = 20? Pa.

*[8] The values for dimensions are approximate.

Gallery

