SONY

ELECTRET CONDENSER MICROPHONE ECM-678



OUTLINE

The Sony ECM-678 is a short shotgun, electret condenser-type microphone, which delivers outstanding sound performance in all field production and broadcast studio applications. It is also wellsuited for use on Sony professional camcorders such as the HDV™Series, DVCAM™ Series, and XDCAM[™] Series. The ECM-678 offers excellent sensitivity, low inherent noise, and extreme durability. Its highly directional response allows clear voice pick-up even in the most demanding of environments, while the built-in low-cut filter switch helps to reduce unwanted pop and wind noise encountered in the field. With its high performance and durability, the ECM-678 microphone is the perfect choice for quality-critical soundacquisition applications.

FEATURES

Superior Sound Quality

The ECM-678 is equipped with a newly developed microphone capsule, which delivers a superb sensitivity of -28 dB (0 dB=1 V/Pa.) and an extremely low inherent noise of less than 16 dB SPL. This provides the clearest pick-up of even the faintest sounds at long distances.

Flat-and-Wide Frequency Response

The ECM-678 microphone has a flatand-wide frequency response (40 Hz to 20 kHz) and will provide sound reproduction that is extremely smooth and natural.

Compact Design

The ECM-678 has been specially designed to meet the needs for a compact yet high-performance shotgun microphone. The result is a highly directional microphone that is only 250 mm in length.

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.

High Durability and Reliability

The vibration-resistant mechanism of the ECM-678 offers high durability and reliability, making it suitable for the harshest environments encountered in the most demanding of sound-acquisition scenarios.



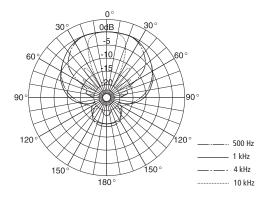
The ECM-678 attached to a Sony camcorder (without windscreen)

SPECIFICATIONS

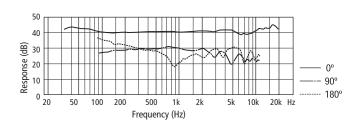
	ECM-678
Capsule type	Electret condenser
Directivity	Uni-directional (Super-cardioid)
Frequency response	40 Hz to 20 kHz
Sensitivity (at 1 kHz)	-28 dB*1 ±3 dB
Output impedance (at 1 kHz)	200 Ω ±20%
Dynamic range	111 dB or more
Signal-to-noise ratio	78 dB or more (IEC179 A-weighted, 1 kHz, 1Pa.)
Inherent noise	16 dB SPL*2 or less
Wind noise	60 dB SPL*2 or less
Induction noise from external magnetic field	0 dB SPL*2 or less
Maximum input sound pressure level	127 dB SPL*2
Power requirements	External, DC 48 V ±4 V
Dimensions	Ø ¹³ /16 x 9 ⁷ /8 inches (Ø20 x 250 mm)
Weight	7 oz (200 g)

 \star1 0 dB=1 V/Pa., at 1 kHz

*2 0 dB SPL=20µ Pa.



Directivity Characteristics



Frequency Response Characteristics

SUPPLIED ACCESSORIES

Windscreen (x1) Microphone holder (x1) Microphone spacer (x1) Carrying case (x1) Operating instructions (x1)



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