

## ECM-MS2

Compact Electret condenser microphone



### Overview

#### **Affordable compact stereo microphone, ideal for mounting on professional compact camcorders**

The ECM-MS2 compact Electret condenser microphone is designed to work with handheld camcorders. The compact 137mm length prevents the microphone inadvertently appearing in view and makes it easier to transport.

The ECM-MS2 offers both stereo and mono operation, increasing the versatility of the microphone. It is particularly useful for capturing accurate ambient stereo sound when dialogue might be alternately captured with wireless microphones. This makes the ECM-MS2 very well suited to applications such as news gathering and documentary shooting on location.

### Features

#### **Compact lightweight design ideal for use with handheld camcorders**

The compact 137mm length of the ECM-MS2 prevents inadvertent vignetting of the microphone in the view when it is attached to a handheld professional camcorder. The short length is also convenient for packing and transporting the microphone with a compact camcorder.

#### **Stereo and mono operation**

The ECM-MS2 offers mono operation when stereo is not

required, simply by cutting off the power supply to the right channel. This capability is useful for recording environmental sounds with one channel, while the other channel is being used with an additional wireless microphone system.

### **Professional quality sound reproduction**

The ECM-MS2 delivers professional-quality natural sound reproduction. It has a frequency response of 80 Hz to 20 kHz (stereo) and 70 Hz to 20 kHz (mono), excellent sensitivity of -32 dB (stereo) and -36 dB (mono), and an inherent noise level of less than 25 dB SPL.

### **Metal body reduces external noise**

The microphone’s metal body enhances audio performance by blocking vibration, resonance, and RF noises.

### **External DC (40 to 52 V) operation**

The ECM-MS2 provides an electronically balanced output operation on 48 V standard external power.

### **Original windscreen protects from contact noise**

The supplied “feather boa like” windscreen suppresses the strong wind noise typical of harsh-climate operating conditions.

### **Cable tie for bundling and fastening the microphone cable**

A cable tie is supplied to fasten the unplugged microphone cable during mono operation.

## Specifications

### General

Type	Back electret condenser microphone
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Stereo type	MS (Mid-Side) stereo microphone
Power supply	External power supply 40 V to 52 V DC (IEC 61938 P48)
Power consumption	Stereo: 3 mA or less x 2Ch Monaural: 3 mA or less
Output connector	Cannon XLR-3-12C type x2
Dimensions	24 dia. x 137 mm (31/32 dia. x 5 1/2 in.)
Mass	Approx. 160 g (5.6 oz.)
Supplied accessories	Wind screen (1), Cable tie (1), Operating instructions (1), Warranty booklet (1)

## Performance

Frequency response	Stereo: 80 Hz to 20,000 Hz Monaural: 70 Hz to 20,000 Hz
Directivity	Uni-directional
Output impedance	30 $\Omega$ $\pm$ 20%, balanced
Sensitivity (deviation $\pm$ 3 dB)	Stereo: -32 dB Monaural: -36 dB
	69 dB or more (IEC 179 A-weighted,

Signal-to-noise ratio	1 kHz, 1 Pa)
Inherent noise	25 dB SPL or less
Wind noise	45 dB SPL or less (with wind screen) 65 dB SPL or less (without wind screen)
Induction noise from external magnetic field	0 dB SPL/1 x 10 <sup>-7</sup> T (1 mG) or less
Maximum input sound pressure level	125 dB SPL or more (input level for 1% waveform distortion at 1 kHz, converted into equivalent input sound pressure level)
Dynamic range	100 dB or more
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
1)	0 dB=1 V/Pa, 1 kHz
2)	0 dB SPL = 20 μPa

## Gallery

