

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 |
|------|------------------------------------|

| | |
|----------------------|----------------------------------------------------------------------------------------|
| 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 Ω \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 ⁻⁷ 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

