

## ECM-VG1

Shotgun Electret condenser microphone



### Overview

#### **Ideal for Field Shooting with Compact Camcorders or Boom Poles**

The ECM-VG1 is specifically designed for professional field and studio production applications at an affordable price.

It is extremely lightweight and is supplied with an innovative windscreen that suppresses wind noise, making it a perfect choice for field sound shooting with a compact camcorder or attached to a boom pole.

### Features

#### **Outstanding Sound Quality**

The ECM-VG1 delivers exceptionally smooth and natural sound reproduction. It has a flat-and-wide frequency response (40 Hz to 20 kHz), excellent sensitivity of -33 dB (0 dB=1 V/Pa), and a low inherent noise level of less than 18 dB SPL.

#### **Compact and Extremely Lightweight Design with Metal Body**

Designed as an extremely lightweight shotgun microphone, the ECM-VG1 maintains good balance even when mounted on compact camcorders.

#### **Built-in Low-cut Filter**

The built-in two-position (M, V) low-cut switch provides a simple

method of reducing the effects of unwanted ambient noise.

### External DC (40 to 52 V) Operation

The ECM-VG1 provides an electronically balanced output operation on 48 V standard external power.

### Innovative Windscreen

The ECM-VG1 is supplied with an innovative windscreen that has an internal frame to rigidly fix the windscreen, creating a space between the microphone and the outside part of the windscreen that helps suppress strong wind noise. It also protects the ECM-VG1 from contact noise in harsh operational environments such as outdoor shooting.

## Specifications

### Audio Section

|                               |                                  |
|-------------------------------|----------------------------------|
| Capsule Type                  | Mono Electret Condenser          |
| Frequency Response            | 40 Hz to 20 kHz                  |
| Directivity                   | Uni-directional (super-cardioid) |
| Sensitivity *[1]              | -33 dB $\pm$ 3 dB                |
| Output Impedance *<br>[2]     | 60 $\Omega$ $\pm$ 20%, Balanced  |
| Dynamic Range                 | 107 dB or more                   |
| Signal-to-Noise Ratio<br>*[3] | 76 dB or more                    |
| Inherent Noise *[4]           | 18 dB SPL or less                |

|   |                                     |
|---|-------------------------------------|
| Induction Noise From External Magnetic Field *[5] | 0 dB SPL                            |
| Wind Noise *[6]                                   | 45 dB SPL or less (with windscreen) |
| Maximum Input Sound Pressure Level *[7]           | 125 dB SPL                          |

## General Section

|                      |   |
|----------------------|---|
| Connector            | XLR-3-12C (male)  |
| Mic Cable            | XLR 3-pin Cable Required (Not Supplied)   |
| Power Requirements   | External, DC 40 V to 52 V   |
| Dimensions *[8]      | $\phi 20 \times 210$ mm<br>$\phi 13/16 \times 8 \ 3/8$ inches   |
| Mass                 | Approx. 66 g<br>Approx. 2.3 oz  |
| Supplied Accessories | Windscreen (1)<br>Stand adaptor (2)<br>Operating instructions (1)<br>Mic spacer (1)<br>Mic holder (1) |

## Notes

## Note

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

\*[2] Output impedance at 1 kHz

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

\*[4] 0 dB SPL = 20  $\mu$ Pa.

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

$\mu$ Pa.

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

\*[7] 0 dB SPL = 20  $\mu$ Pa.

\*[8] The values for dimensions are approximate.

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## Gallery

