

## ECM-100N

Omni-directional Electret  
Condenser Microphone



### Overview

The Sony ECM-100N is an Omni-directional electret condenser microphone ideal for instrument recording in studio and compatible with High-Resolution Audio. Equipped with a newly developed microphone capsule, the ECM-100U delivers flat and wide frequency response of 20 to 50,000 Hz and picks up the raw sound echoing in space.

### Features

#### **Excellent Sound Quality**

Newly developed small diaphragm microphone capsule with Omni-directional characteristics realizes clear and transparent sound in ambient and instrument recording.

#### **Flat and Wide Frequency Response**

The ECM-100N microphone has flat and wide frequency response (20 Hz to 50kHz) and provides superb sound reproduction quality for High-Resolution Audio.

#### **Noise Elimination Construction**

Two-part metallic body structure originally employed in the C-800G microphone prevents acoustic vibration resulting in low noise and clear sound.

#### **Low-Cut Filter**

Low-Cut filter switch helps eliminate low-frequency noise and

proximity effect.

## Pad Switch

An -10dB pad switch on the ECM-100N microphone provides added headroom and minimizes distortion caused by transient peaks.

## Specifications

### Audio Section

|   |                    |
|---|--------------------|
| Capsule Type                                  | Electret Condenser |
| Frequency Response                            | 20 Hz to 50 kHz    |
| Directivity                                   | Omni directional   |
| Sensitivity *[1]                              | -36 dB             |
| Output Impedance *<br>[2]                     | 100Ω±15%, Balanced |
| Dynamic Range                                 | 124 dB or more     |
| Signal-to-Noise Ratio<br>*[3]                 | 73 dB or more      |
| Inherent Noise *[4]                           | 21 dB SPL or less  |
| Maximum Input<br>Sound Pressure Level<br>*[5] | 145 dB SPL         |

## General Section

|                      |   |
|----------------------|---|
| Connector            | XLR-3-12C (male)  |
| Mic Cable            | XLR 3-pin Cable Required (Not Supplied)   |
| Power Requirements   | DC 44 to 52 V   |
| Dimensions *[6]      | 19dia. × 130mm (0.75dia. × 5.12in.)   |
| Mass                 | Approx. 130g (4.6oz.)   |
| Supplied Accessories | Mic holder (1)<br>Wind screen (1)<br>Stand screw adaptor (W3/8 to NS5/8) (1)<br>Operating instructions (1)<br>Carrying case (1) |

## 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 = 20μPa.          |
| *[5] | 0 dB SPL = 20μPa.         |

The values for dimensions are

\*[6]

approximate.

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## Related products



### **C-80**

Uni-directional  
Condenser  
Microphone

## Gallery

