

## C-80

### Uni-directional Condenser Microphone



#### Overview

Uni-directional condenser microphone suitable for vocal/voice recording. Inheriting the microphone capsule used in the C-100 and using the same material as the C-800G for the diaphragm, this microphone inherits the essence of the predecessors. The dual diaphragm configuration suppresses sound characteristics changes with distance (proximity effect), enabling stable recording/distribution. "Noise Elimination Construction" succeeded from C-800G/C-100 prevents acoustic vibration resulting in low noise and clear sound.

#### Features

##### **Excellent Sound Quality**

Powerful and rich mid-low frequency range provides vocals and voice recordings with a core sound and presence.

##### **Dual Diaphragm Configuration**

Dual diaphragm configuration realizes stable recording/distribution by suppressing sound characteristics changes with distance (proximity effect).

##### **Noise Elimination Construction**

Two-part metallic body structure succeeded from C-800G/C-100 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 microphone provides added headroom and minimizes distortion caused by transient peaks.

## Specifications

### Audio Section

Capsule Type	Condenser Microphone
Frequency Response	20Hz~20kHz
Directivity	Uni directional
Sensitivity *[1]	-30 dB (deviation $\pm 3$ dB) (0 dB=1 V/Pa, 1 kHz)
Output Impedance * [2]	90 $\Omega$ $\pm$ 15%, Balanced
Dynamic Range	More than 125.5 dB
Signal-to-Noise Ratio *[3]	81.5dB
Inherent Noise *[4]	Less than 12.5 dB SPL (0 dB= $2 \times 10^{-5}$ Pa) (IEC* 61672-1 A-Weighted, 1 kHz, 1 Pa)

Maximum Input Sound Pressure Level *[5]	More than 138 dB SPL (output level for 1% waveform distortion at 1 kHz, converted into equivalent input sound pressure level: 0 dB=2 × 10 <sup>-5</sup> Pa)
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## 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]	Approx. 40 mm (1.57 in.) dia. × 158 mm (6.22 in.)
Mass	Approx. 215 g (7.6 oz)
Supplied Accessories	Cradle suspension (1) Operating instructions (1) 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 = 20 $\mu$ Pa.

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\*[5] 0 dB SPL = 20 $\mu$ Pa.

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\*[6] The values for dimensions are approximate.

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## Related products



### **C-100**

Two Way Condenser  
Microphone



### **ECM-100U**

Uni-directional  
Electret Condenser  
Microphone



### **ECM-100N**

Omni-directional  
Electret Condenser  
Microphone

## Gallery

