

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

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

Dual Diaphragm Configuration

The dual diaphragm configuration realizes stable recording/distribution by suppressing sound characteristic changes with distance (proximity effect).

Noise Elimination Construction

The two-part metallic body structure succeeded from the C-800G/C-100 microphone prevents acoustic vibration,

resulting in low noise and clear sound.

Low-Cut Filter

The low-Cut filter switch helps eliminate the 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 ± 3 dB) (0 dB=1 V/Pa, 1 kHz)
Output Impedance *[2]	90 Ω \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= 2×10^{-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 ⁻⁵ 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 = 20μPa.
*[5]	0 dB SPL = 20μPa.

*[6]

The values for dimensions are approximate.

Related products



C-100

Two Way Condenser Microphone



ECM-100U

Uni-directional Electret Condenser Microphone



ECM-100N

Omni-directional Electret Condenser Microphone



C-38B

Condenser Microphone



C-800GPAC1

Studio Tube Condenser Microphone PAC

Gallery

