SONY



C-38B
Condenser Microphone

OUTLINE

The Sony C-38B is an all-purpose, large diaphragm microphone with a proven track record of reliability in broadcast production, music recording studios, or wherever circumstances demand a combination of powerful performance, versatile operation and simplicity of microphone setup. Ideal for vocal and instrument recording, this microphone is particularly adept at handling loud instruments such as percussion and wind instruments.

The condenser element of the C-38B microphone provides dual switchable, omni-directional to uni-directional polar patterns, providing control over the pickup angle for flexibility in any recording scenario. A low-cut filter switch helps eliminate low frequency noise, and an -8dB PAD switch maximizes gain and reduces distortion noise.

With its established performance record, the C-38B microphone continues to be the reliable, affordable choice of recording engineers around the world.

FEATURES

Switchable Polar Patterns
The C-38B microphone features switchable omni-directional and uni-directional polar patterns for maximum flexibility and control over pickup angle.

Function Select Switch
Just below the directivity switch, a function select switch allows quick adjustment of the C-38B microphone through five positions: OFF; M (full range response); M_1 (slight low frequency attenuation); V_1 (low frequency attenuation); and V_2 (severe low frequency attenuation).

Broad Dynamic Range
An improved amplifier gives the C-38B a dynamic range of greater than 116dB, with flat frequency response and sharp directional characteristics in both uni-directional and omni-directional modes.

Phantom Power System
In addition to internal battery power, the C-38B microphone is compatible for use with standardized 48V phantom powering.

Low-Cut Filter
The C-38B microphone's low-cut filter switch helps eliminate low-frequency noise and proximity effect.

Pad Switch
An -8dB PAD switch on the C-38B microphone provides added headroom and minimizes distortion caused by transient peaks.

FET Output Stage
The FET output stage of the C-38B microphone delivers high signal gain and low noise floor for superb sound quality.

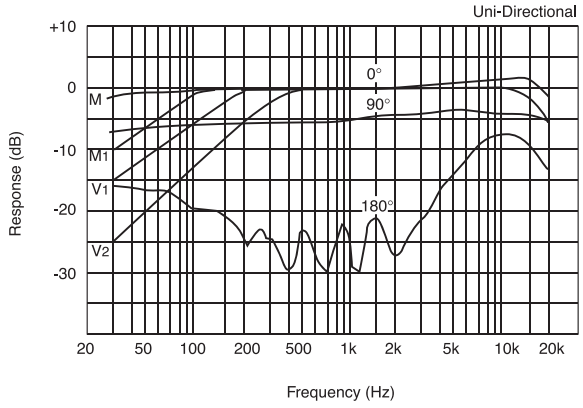
Vibration Resistant Construction
Designed for peak performance, the C-38B microphone's classic, vibration resistant construction provides excellent shielding against external magnetic fields and helps prevent distortion.

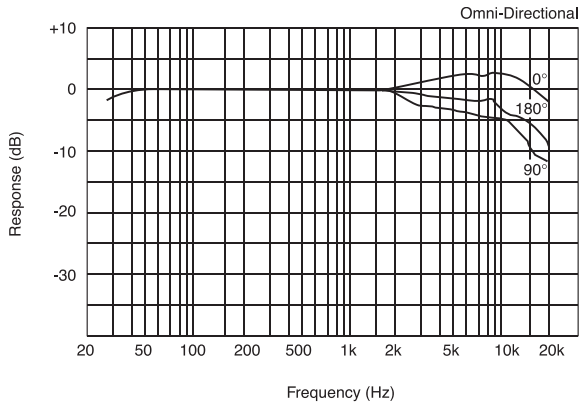


SPECIFICATIONS

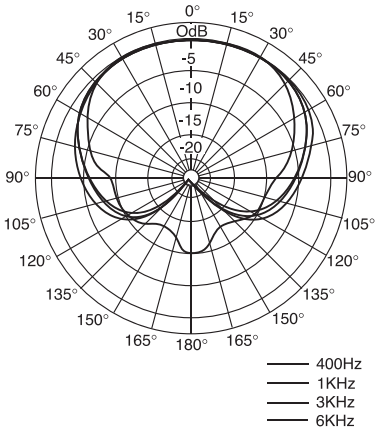
	C-38B	
Capsule type	Condenser	
Frequency response	30 Hz to 18 kHz	
Directivity	Uni-directional/Omi-directional (selectable)	
Effective output level at 1 kHz (0 dBm = 1 mW/1 Pa.)	-47.8dBm	
Sensitivity (0 dB = 1 V/1 Pa, at 1 kHz)	-48.0dB ±2.0dB	
Output impedance at 1 kHz (balanced)	250 Ω ±20%	
Dynamic range	116dB or more	
Signal-to-noise Ratio (a weighted, 1 kHz, 1 Pa.)	70dB or more	
Inherent noise	24dB SPL or less	
Induction noise from ext. magnetic field (dB SPL/(1E-7) T)	5dB SPL or less	
Wind noise	44dB SPL or less	
Max. input sound pressure level	140dB SPL	
Mic attenuator	-8dB	
Tone control	Low-cut: M, M_1, V_1, V_2	High-cut: 1
Microphone connector	XLR-3-12C type	
Microphone cable	19.7 feet (6 m)	
Power supply	9 V Battery or External Power	9 V Battery Life: approx. 200 h
Standard operating voltage	Battery: 9V	External Power: DC 24 to 48V
Current drain	Battery: 2 mA or less	External Power: 5 mA or less
Dimensions	3 1/8 dia. x 8 1/2 x 1 13/16 inches (78 dia. x 214 x 46 mm)	
Weight (without battery)	Approx. 1 lb 7 oz (650 g)	
Supplied Accessories	Carrying case (1) Stand adaptor (NS5/8) (1) Stand adaptor (W3/8) (1) Screwdriver (1) Operation manual (1)	

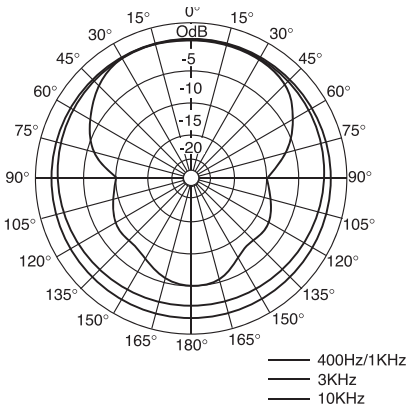
Frequency Response Characteristics





Directivity Characteristics





SONY

Sony Electronics Inc.
1 Sony Drive • Park Ridge, NJ 07656
www.sony.com/ProAudio
A-1163

©2007 Sony Electronics Inc. All rights reserved.
Reproduction in whole or in part without written permission is prohibited.
Features and specifications are subject to change without notice.
All non-metric weights and measurements are approximate.
Sony is a trademark of Sony.

Printed in U.S.A. 6/07