

THE
STUFF
THAT
LEGENDS
• ARE
MADE
OF...

AUDIO-TECHNICA
AT4050/CM5
• MULTI-PATTERN
STUDIO CAPACITOR
MICROPHONE



AT4050/CM5

MULTI-PATTERN STUDIO CAPACITOR MICROPHONE

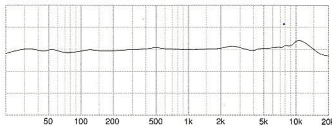
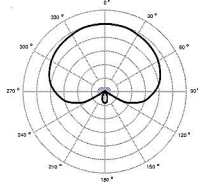
Three switchable polar patterns: Cardioid, Omni, Figure-of-eight

Remarkable combination of warm, transparent sound and super-high-SPL capability

Large-diaphragm design for extended frequency response

Symmetrical direct-coupled electronics for excellent transient response and low distortion

Cardioid



Omnidirectional

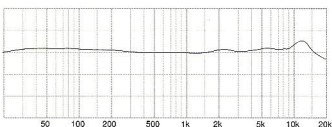
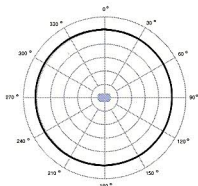
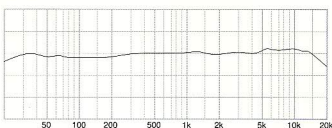
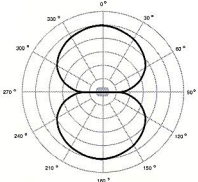


Figure-of-eight



Polar patterns: All at 1 kHz; 5 dB per division.
Frequency response: All at 12 inches or more on axis, flat position; 10 dB per division.

Expanding upon the technology of the critically-acclaimed AT4033 Studio Capacitor Microphone, Audio-Technica announces a new standard in studio performance microphones: The AT4050/CM5.

The new large-diaphragm design utilizes two capacitor elements to provide consistent, superior performance in cardioid, omnidirectional and figure-of-eight polar pattern settings.

To achieve a warm, true-to-life sound in *all* polar pattern settings, Audio-Technica vapor-deposits pure gold onto specially-contoured large diaphragms which are aged through five different steps to ensure optimum characteristics over years of use. The transformerless circuitry results in exceptional transient response and clean output even under extremely high SPL conditions.

Supremely transparent and accurate, without sacrificing warmth and ambiance, the Audio-Technica AT4050/CM5 inaugurates a new era of performance.



AT4050/CM5 with included AT8441 shock mount

Specifications[†]

Elements (two)	Externally polarized (DC bias) capacitor
Polar Pattern	Cardioid (Unidirectional), Omnidirectional, Figure-of-eight
Frequency Response	20-20,000 Hz
Open Circuit Sensitivity (1 kHz) [‡]	-36 dB (15.8 mV) \pm 2 dB, re 1V at 1 Pa*
Impedance	100 ohms
Maximum Input Sound Level	149 dB SPL, 1 kHz at 1% T.H.D. 159 dB SPL with 10 dB pad (nominal)
Noise, Typical (A-weighted) [‡]	17 dB SPL
Dynamic Range, Typical	132 dB, 1 kHz at Max SPL
Signal-to-Noise, Typical	77 dB, 1 kHz at 1 Pa*
Hi-Pass Filter (Low-end Roll-off)	80 Hz, 12 dB/octave
Power Requirements	48V DC phantom (\pm 4V)
Current Consumption, Typical	3.2 mA
Weight (Less Cable and Clamp)	16.9 oz (480 g)
Dimensions	7.40" (188.0 mm) long, 2.10" (53.4 mm) maximum body diameter
Accessories Furnished	AT8441 shock mount; protective carrying case

[†] In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

* 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

[‡] Measured at diaphragm

[‡] Using Audio Precision System One



audio-technica®

Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224
216/686-2600 Fax: 216/686-0719

Form No. 0345-0807-01 ©1994 Audio-Technica U.S., Inc. Printed in U.S.A.