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

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.

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)¹
  - -36 dB (15.8 mV) ± 2 dB, re 1 V 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)²
  - 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 (±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

¹ In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.
² 1 Pascal = 1 dyne/cm² = 10 microbars = -94 dB SPL
³ Measured at diaphragms
⁴ Using Audio Precision System One.

Audio-Technica U.S., Inc., 3221 Commerce Drive, Stow, Ohio 44224
216/666-2600 Fax: 216/666-9719
Form No. 0345-8807-01 ©1994 Audio-Technica U.S., Inc. Printed in USA.