AT4050 MULTI-PATTERN CONDENSER MICROPHONE





- Transparent uppers/mids balanced by rich low-end qualities combine with advanced acoustic engineering for extensive performance capabilities and highest quality
- Dual-diaphragm capsule design maintains precise polar pattern definition across the full frequency range of the microphone
- Transformerless circuitry virtually eliminates low-frequency distortion and provides superior correlation of high-speed transients
- Open acoustical environment of the symmetrical housing assembly minimizes unwanted internal reflections
- State-of-the-art surface-mount electronics ensure compliance with A-T's stringent consistency and reliability standards

The AT4050 is intended for use in professional applications where remote power is available. It requires 48V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 singlechannel and CP8506 four-channel phantom power supplies.

Output from the microphone's XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" positive acoustic pressure produces positive voltage at Pin 2.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

An integral 80 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The high-pass position reduces the microphone's sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

In use, secure the cable to the mic stand or boom, leaving a slack loop at the mic. This will ensure the most effective shock isolation and reduce the possibility of accidentally pulling the microphone out of its mount.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

AT4050 SPECIFICATIONS¹

ELEMENT	Externally polarized (DC bias) condenser
POLAR PATTERN	Cardioid, Omnidirectional, Figure-of-eight
FREQUENCY RESPONSE	20-18,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY	-36 dB (15.8 mV) 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 ¹	17 dB SPL
DYNAMIC RANGE (typical)	132 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO ¹	77 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	48V DC, 4.2 mA typical
SWITCHES	Pattern selection; flat, roll-off; 10 dB pad (nominal)
WEIGHT (less accessories)	18.0 oz (510 g)
DIMENSIONS	7.40" (188.0 mm) long, 2.10" (53.4 mm) maximum body diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8449 shock mount for 5/e"-27 threaded stands; microphone dust cover; 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

¹ Typical, A-weighted, using Audio Precision System One. Specifications are subject to change without notice.





nse (Omni)

t

Polar Pattern (Omni





ncv Respo

200 Hz same as 1 kHz 5 kHz - - - -Polar Pattern (Fig. Eight

200 Hz same as 1 kHz 5 kHz same as 1 kHz 8 kHz same as 1 kHz







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