

AT4073a LINE + GRADIENT CONDENSER MICROPHONE



- Designed for critical long-distance pickup in broadcasting, film/TV production, and theater sound reinforcement applications
- Direct-coupled, balanced output ensures a clean signal even in high-output conditions
- Exclusive acoustic design provides same directivity as mics up to 50% longer (U.S. Patent No. 4,789,044)
- Rugged housing made of lightweight structural-grade aluminum alloy
- Switchable low-frequency roll-off

The AT4073a is intended for use in professional applications where remote power is available. It requires 11V to 52V 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 single-channel or 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.

An integral 150 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

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.

AT4073a SPECIFICATIONS[†]

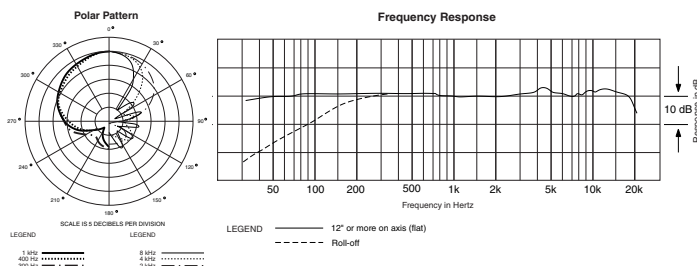
ELEMENT	Externally polarized (DC bias) condenser
POLAR PATTERN	Line + gradient
FREQUENCY RESPONSE	30-20,000 Hz
LOW-FREQUENCY ROLL-OFF	150 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY¹	-23 dB (70.8 mV) re 1V at 1 Pa*
IMPEDANCE	100 ohms
MAXIMUM INPUT SOUND LEVEL	126 dB SPL, 1 kHz at 1% T.H.D.
NOISE²	14 dB SPL
DYNAMIC RANGE (typical)	112 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO²	80 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	11-52V DC, 3.2 mA typical
SWITCH	Flat, roll-off
WEIGHT (less accessories)	4.0 oz (114 g)
DIMENSIONS	9.13" (232.0 mm) long, 0.83" (21.0 mm) body diameter
ACCESSORIES FURNISHED	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; 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 Measured at diaphragm

² Typical, A-weighted, using Audio Precision System One. Specifications are subject to change without notice.



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