

AT2010 CARDIOID CONDENSER VOCAL MICROPHONE

20 SERIES



- Studio-quality sound on stage for crystal-clear vocal performance
- Excels wherever articulate vocals are needed: in houses of worship, for solo performances, jazz vocalists, singer/songwriters, and more
- Features the same 16 mm low-mass diaphragm found in the critically acclaimed AT2020 side-address studio condenser
- Extended frequency response and superior transient response for smooth, natural sonic characteristics
- High SPL-handling and wide dynamic range provide unmatched versatility
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Multi-stage grille design offers excellent protection against plosives and sibilance without compromising high-frequency clarity
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Rugged, all-metal design and construction for years of trouble-free use
- Quiet-Flex™ stand clamp provides silent, flexible microphone positioning

The AT2010 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 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.

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

When using the AT2010 in settings with a stage monitor speaker, the speaker should be located 180° off axis (at rear of the microphone). This placement, in conjunction with the microphone's uniform cardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.

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.

AT2010 SPECIFICATIONS†

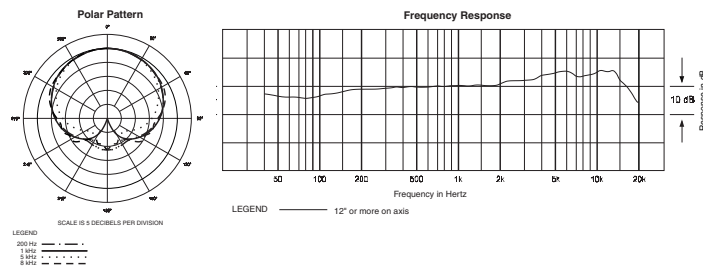
ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	40-20,000 Hz
OPEN CIRCUIT SENSITIVITY	-48 dB (3.9 mV) re 1V at 1 Pa*
IMPEDANCE	100 ohms
MAXIMUM INPUT SOUND LEVEL	136 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical)	113 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO †	71 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	48V DC, 2 mA typical
WEIGHT	233 g (8.2 oz)
DIMENSIONS	179.1 mm (7.05") long, 50.8 mm (2.00") maximum body diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8470 Quiet-Flex™ stand clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; soft protective pouch

†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

† Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



 **audio-technica**®

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