



Features

- **Studio-quality sound on stage for crystal-clear vocal performance**
- **Same 16 mm low-mass diaphragm found in the critically acclaimed AT2020 side-address studio microphone**
- **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**
- **Rugged all-metal design and construction for years of trouble-free use**
- **Corrosion-resistant contacts from gold-plated XLRM-type connector**
- **Quiet-Flex™ stand clamp provides silent, flexible microphone positioning**

Description

The AT2010 is a handheld condenser microphone with a cardioid polar pattern. It is designed specifically for close-up vocal use in professional live-sound and studio applications.

The microphone requires 48V phantom power for operation.

The cardioid polar pattern of the microphone is more sensitive to sound originating directly in front of the element, making it useful for controlling feedback, reducing pickup of unwanted sounds and providing isolation between performers.

The output of the microphone is a 3-pin XLRM-type connector.

The microphone is enclosed in a rugged housing. Its multi-stage grille design offers excellent protection against plosives and sibilance without compromising high-frequency clarity. The included AT8470 Quiet-Flex™ stand clamp permits mounting on any microphone stand with $\frac{5}{8}$ "-27 threads. A soft protective pouch is also included.

Operation and Maintenance

The AT2010 requires 48V phantom power for operation.

Output 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 microphone 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 long periods of time. Extremely high humidity should also be avoided.

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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 ratio¹	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") head diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	T7
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.

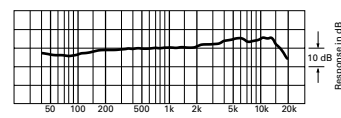
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

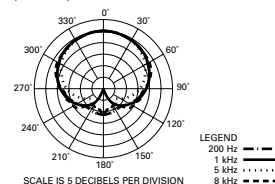
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frequency response: 40–20,000 Hz



polar pattern



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