

# AT8010

## Omnidirectional Condenser Microphone

 **audio-technica**

**broadcast & production** microphones



### Features

- **Versatile condenser microphone ideal for audio acquisition in the studio and on stage; use for interviews, group vocals, strings cymbal, overheads, acoustic guitar and piano**
- **Extremely smooth, extended response on-and off-axis**
- **Low sensitivity to popping and overload**
- **Omnidirectional polar pattern provides maximum ambient pickup**
- **Switchable 80 Hz high-pass filter minimizes pickup of undesired low-frequency sounds**
- **Offers the convenience of battery or phantom power operation**

### Description

The AT8010 is an extremely versatile condenser microphone ideal for interviews and general audio acquisition, including group vocals, strings, cymbal, overheads, acoustic guitar and piano.

The microphone requires 11V to 52V phantom power or a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

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

A switch permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass filter) to help control undesired ambient noise.

The microphone is enclosed in a rugged housing. The included AT8405a stand clamp permits mounting on any microphone stand with  $\frac{5}{8}$ "-27 threads. A windscreen, a battery and a soft protective pouch are also included.

### Operation and Maintenance

The AT8010 requires 11V to 52V phantom power or a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

To install the battery, unscrew the lower section of the microphone body, just below the nameplate. Insert a fresh 1.5V AA battery in the handle compartment ("+" end up), then reassemble the microphone. For longest battery life, the switch should remain off except when the microphone is in use. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

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.

An integral 80 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. To engage the high-pass filter, slide the switch toward the "bent" line.

The high sensitivity of the microphone assures useful output and an excellent match to most input sources. In some cases, however, an attenuator may be required between the microphone and preamplifier to avoid overloading sensitive input stages.

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.

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## Specifications

<b>Element</b>	Fixed-charge back plate, permanently polarized condenser
<b>Polar pattern</b>	Omnidirectional
<b>Frequency response</b>	20-20,000 Hz
<b>Low frequency roll-off</b>	80 Hz, 18 dB/octave
<b>Open circuit sensitivity</b>	Phantom: -44 dB (6.3 mV) re 1V at 1 Pa Battery: -45 dB (5.6 mV) re 1V at 1 Pa
<b>Impedance</b>	Phantom: 250 ohms Battery: 300 ohms
<b>Maximum input sound level</b>	Phantom: 137 dB SPL, 1 kHz at 1% T.H.D. Battery: 123 dB SPL, 1 kHz at 1% T.H.D.
<b>Dynamic range (typical)</b>	Phantom: 113 dB, 1 kHz at Max SPL Battery: 99 dB, 1 kHz at Max SPL
<b>Signal-to-noise ratio<sup>1</sup></b>	70 dB, 1 kHz at 1 Pa
<b>Phantom power requirements</b>	11-52V DC, 2 mA typical
<b>Battery type</b>	1.5V AA/UM3
<b>Battery current / life</b>	0.4 mA / 1200 hours typical (alkaline)
<b>Switch</b>	Flat, roll-off
<b>Weight</b>	165 g (5.8 oz)
<b>Dimensions</b>	178.0 mm (7.01") long, 26.0 mm (1.02") head diameter
<b>Output connector</b>	Integral 3-pin XLRM-type
<b>Audio-Technica case style</b>	S4
<b>Accessories furnished</b>	AT8405a stand clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; AT8136 windscreen; battery; 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.

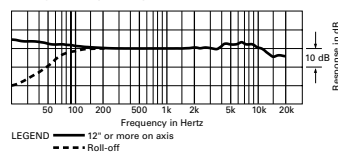
1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

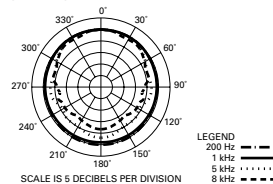
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frequency response: 20-20,000 Hz



polar pattern



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