AT4033/CL

(A) audio-technica

Cardioid Condenser Side-Address Microphone

40 series studio microphones



Features

- Specially engineered to meet the most critical acoustic requirements of professional recording, broadcast and sound reinforcement
- Transformer less circuity virtually eliminates low-frequency distortion and provides superior correlation of the high-speed transients
- 2-micron thick, vapor-deposited gold diaphragm undergoes a five step aging process so that the optimum characteristics achieved remain constant over years of use
- Floating-construction capsule assembly provides isolation from noise and vibration
- Precision-machined, nickel-plated brass, acoustic element baffle provides enhanced element stability and optimal sensitivity
- Open acoustical environment of the symmetrical housing assembly minimizes unwanted internal reflections
- · Custom shock mount provides superior isolation
- Integral 80 Hz high-pass filter switch and 10 dB pad switch
- State-of-the-art design and manufacturing techniques ensure compliance with A-T's stringent consistency and reliability standards

Description

The AT4033/CL is a side-address fixed-charge condenser microphone with a cardioid polar pattern. It is designed to meet the most critical acoustic requirements of professional recording, broadcast and sound reinforcement.

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 in 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 equipped with a switchable 10 dB pad and a switch that permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass filter).

The microphone is enclosed in a rugged housing. The included AT8449 shock mount provides superior isolation and permits mounting on any microphone stand with $\frac{5}{8}$ -27 threads. A dust cover and a protective carrying case are also included.

Operation and Maintenance

The AT4033/CL 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.

A raised Audio-Technica emblem is on the front of the microphone. Position this side of the microphone toward the sound source.

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

The microphone is also equipped with a switchable 10 dB pad that lowers the microphone's sensitivity, thus providing higher SPL capability for flexible use with a wide range of users and system configurations. To engage the 10 dB pad, slide the switch toward the -10 position.

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.

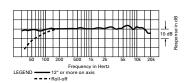
Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

Specifications

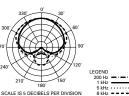
Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	30-20,000 Hz
Low frequency roll-off	80 Hz, 12 dB/octave
Open circuit sensitivity	–32 dB (25.1 mV) re 1V at 1 Pa
Impedance	100 ohms
Maximum input sound level	145 dB SPL, 1 kHz at 1% T.H.D.; 155 dB SPL, with 10 dB pad (nominal)
Noise ¹	17 dB SPL
Dynamic range (typical)	128 dB, 1 kHz at Max SPL
Signal-to-noise ratio ¹	77 dB, 1 kHz at 1 Pa
Phantom power requirements	48V DC, 3.2 mA typical
Switches	Flat, roll-off; 10 dB pad (nominal)
Weight	380 g (13.4 oz)
Dimensions	170.0 mm (6.69") long,
	53.4 mm (2.10") maximum body diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	R1
Accessories furnished	AT8449 shock mount for 5/8"-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.	

frequency response: 30-20,000 Hz

Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL
Typical, A-weighted, using Audio Precision System One.
Specifications are subject to change without notice.



polar pattern



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