



audio-technica Cardioid Condenser Side Address Microphone User Manual

[Home](#) » [Audio-Technica](#) » audio-technica Cardioid Condenser Side Address Microphone User Manual

User Manual / Cardioid Condenser Side-Address Microphone

AT4033a



Thank you for purchasing this product. Before using the product, read through the user manual to ensure that you will use the product correctly. Please keep this manual for future reference.

Contents [[hide](#)

1 ■ Features

2 ■ Safety precaution

3 ■ Cautions for the product

4 ■ Notes on use

5 ■ Connection procedure

6 ■ Switch settings

7 ■ Specifications

8 Documents / Resources

9 Related Posts

■ Features

- Specially engineered to meet the most critical acoustic requirements of professional recording, broadcast, and sound reinforcement
- Transformerless circuitry virtually eliminates low-frequency distortion and provides a superior correlation of the high-speed transients
- The 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 low-cut 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

■ Safety precaution

Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

■ Cautions for the product

- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or dusty place.

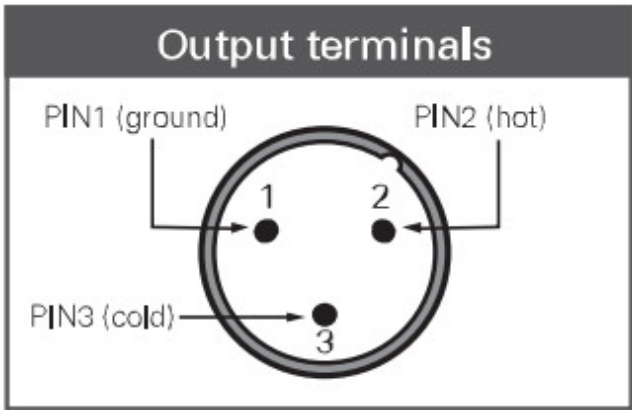
■ Notes on use

- A raised Audio-Technica emblem is on the front of the microphone. Position this side of the microphone toward the sound source.
- In use, secure the cable to the microphone stand or boom, leaving a slack loop at the microphone. This will

ensure the most effective shock isolation and reduce the possibility of accidentally pulling the microphone out of its mount.

■ **Connection procedure**

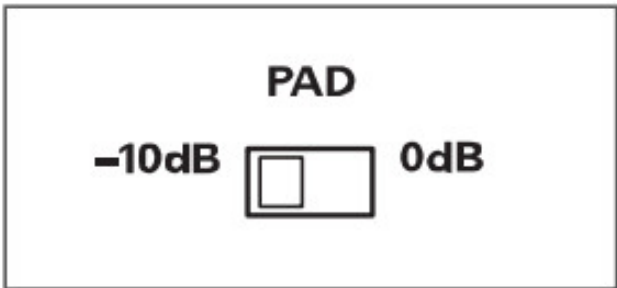
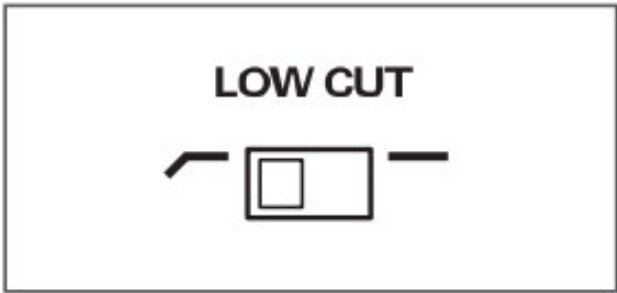
Connect the output terminals of the microphone to a device that has a microphone input (balanced input) compatible with a phantom power supply. The output connector is an XLRM-type with polarity as shown in the figure below.



This product requires 48 V DC phantom power

■ **Switch settings**

To reduce the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation, and mechanically coupled vibrations, turn ON () the low-cut filter switch located on the side. If audio input exceeds the maximum input sound level, set the pad switch to -10 dB.



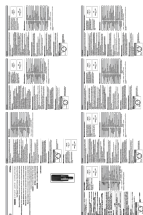
■ **Specifications**

Element	Fixed-charge back plate, permanently polar
Polar pattern	Cardioid
Frequency response	30-20,000 Hz
Low cut	80 Hz, 12 dB/octave
Pad	-10 dB
Open circuit sensitivity	-32 dB (25.1 mV) (0dB = 1 V/Pa, 1 kHz)
Impedance	100 ohms
Maximum input sound level	145 dB SPL (1 kHz at 1% THD) 155 dB SPL (When pad is on.)
Noise	17 dB SPL (A-weighted)
Dynamic range	128 dB (1 kHz at Max SPL)
Signal-to-noise ratio	77 dB (1 kHz at 1 Pa, A-weighted)
Phantom power requirements	48 V DC, 3.2 mA
Switches	Low cut: on/off, Pad: on/off
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 XLR-M type
Audio-Technica case style	R1
Included accessories	AT8449a shock mount, stand adapter (3/8"-microphone dust cover, carry case

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

For product improvement, the product is subject to modification without notice.

Documents / Resources

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