



audio-technica AT4033a Cardioid Condenser Side Address Microphone User Manual

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audio-technica AT4033a Cardioid Condenser Side Address Microphone



Product Information

Specifications

- Element: Fixed-charge back plate, permanently polarized condenser
- 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 (3/8-5/8), microphone dust cover, carry case

Product Usage Instructions

Safety Precautions

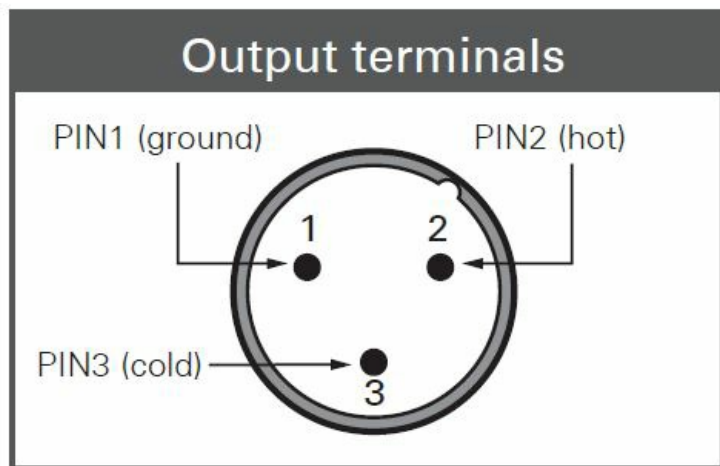
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

Cautions for the Product

Avoid using the product in hot, humid, or dusty places.

Connection Procedure

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

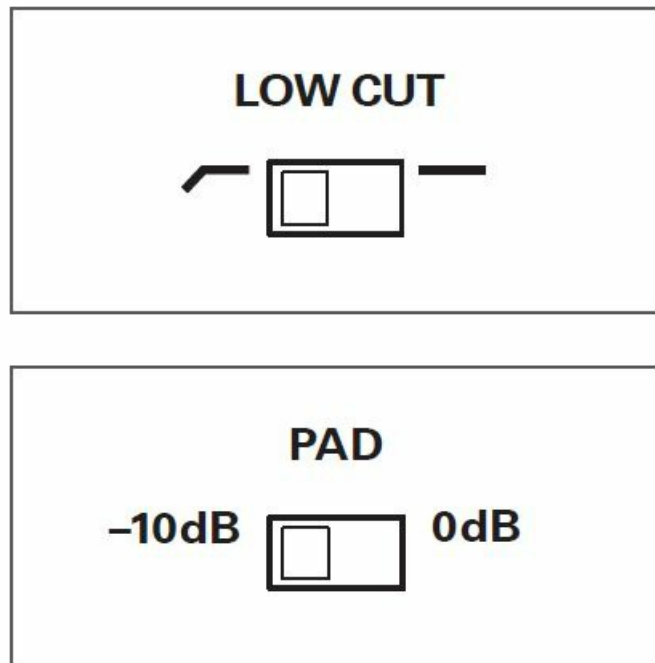


This product requires 48 V DC phantom power.

- PIN1 (ground)
- PIN2 (hot)
- PIN3 (cold)

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.



- Low cut: on/off
- Pad: on/off

FAQ

- Q: What is the weight of the AT4033a microphone?
A: The weight of the AT4033a microphone is 380 g (13.4 oz).
- Q: What are the included accessories with the AT4033a microphone?
A: The included accessories with the AT4033a microphone are the AT8449a shock mount, stand adapter (3/8-5/8), microphone dust cover, and carry case.

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.

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 superior correlation of the high-speed transients
- The 2-micron thick, vapor-deposited gold diaphragm undergoes a fivestep 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

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.

Switch settings

- To reduce the pickup of lowfrequency 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

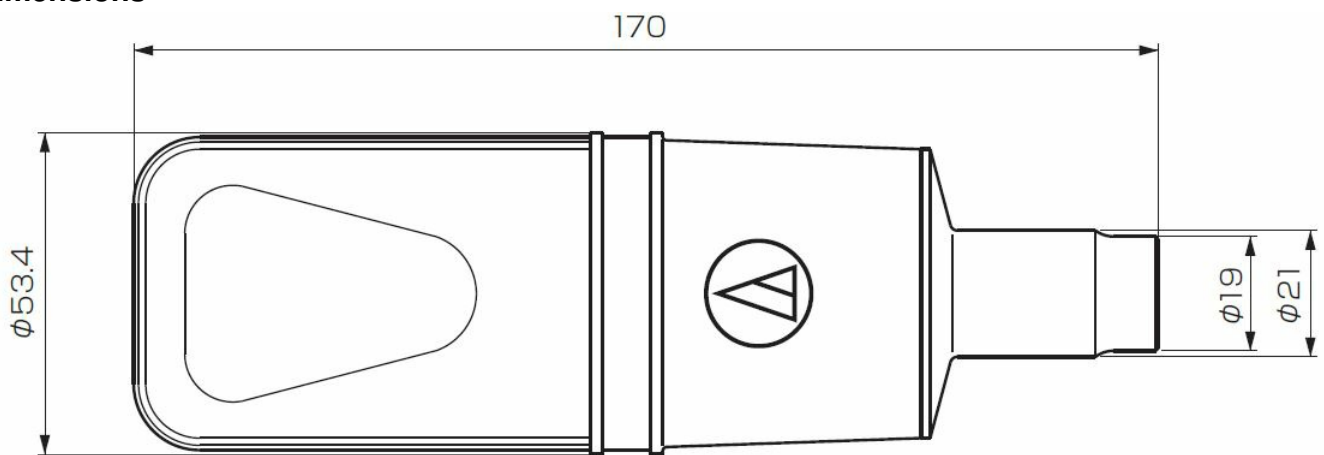
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- Phantom power requirements 48 V DC, 3.2 mA
- Switches Low cut: on/off, Pad: on/off
- Weight 380 g (13.4 oz)
- Dimensions 170.0 mm (6.69") long, 53.4 mm (2.10") maximum body diameter
- Output connector Integral 3-pin XLR-M type
- Audio-Technica case style R1
- Included accessories AT8449a shock mount, stand adapter (3/8"-5/8"),

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

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

Dimensions



Included accessories



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Documents / Resources



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References

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