



AT5045

User Manual Cardioid Condenser Microphone



audio-technica

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

- Audio-Technica's premier studio condenser instrument microphone
- Pure, realistic sound quality for overheads, percussion, acoustic guitar, strings and other acoustic instruments
- Side-address, stick-design microphone with more diaphragm surface area than most traditional large diaphragm side-address microphones
- Discrete components carefully selected for optimized capsule performance
- Transformer-coupled output is optimized to provide sonic character
- Exceptionally low noise with high-SPL capability
- Hand assembled and inspected for 100% quality control
- Advanced internal shock mounting decouples the capsule from the microphone body
- Elegant, durable housing of aluminum and brass
- Innovative isolation clamp provides secure mounting, versatile positioning and effective dampening of unwanted mechanical noise
- Custom hard-shell carry case with die-cut foam compartments offers protection for one or two microphones

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

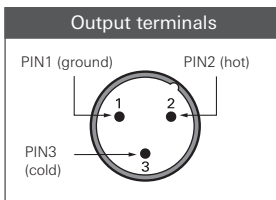
- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or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

Notes on use

- An Audio-Technica logo 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 clamp.

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.

How to use the isolation clamp

1. Before placing the microphone into the included isolation clamp, make certain that the locking mechanism on the top of the isolation clamp is in the unlocked position.
2. Open the clamp.
3. Insert the microphone directly into the isolation clamp's front opening with the Audio-Technica logo on the microphone facing outward and the microphone body vertically centered in the clamp. Firmly press the microphone inward until you hear a click and the microphone feels snug in the isolation clamp.
4. Secure the microphone by turning the lever on the top of the isolation clamp to the locked position.

* To remove, first turn the lever on the top of the isolation clamp to the unlocked position. Next, pull the microphone directly outward. A slight twisting motion can aid in removing the microphone from the isolation clamp. Be careful that the microphone does not drop down and expose the grille to the clamp.



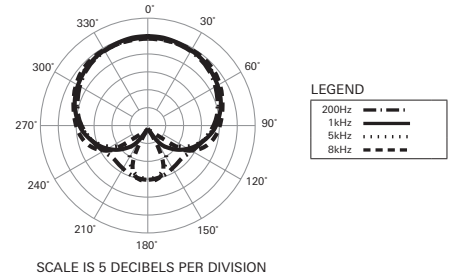
Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	20-20,000 Hz
Open circuit sensitivity	-35 dB (17.7 mV), (0 dB = 1 V/Pa, 1 kHz)
Impedance	100 ohms
Maximum input sound level	149 dB SPL (1 kHz at 1% THD)
Noise	8 dB SPL (A-weighted)
Dynamic range	141 dB (1 kHz at Max SPL)
Signal-to-noise ratio	86 dB (1 kHz at 1 Pa, A-weighted)
Phantom power requirements	48 V DC, 1.4 mA
Weight	197 g (7.0 oz)
Dimensions	177.0 mm (6.97") long, 25.0 mm (0.98") maximum body diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	S15
Accessories	AT8481 isolation clamp, stand adapter (3/8"-5/8"), AT8165 windscreen, carry case
Sold separately	AT8482 shock mount

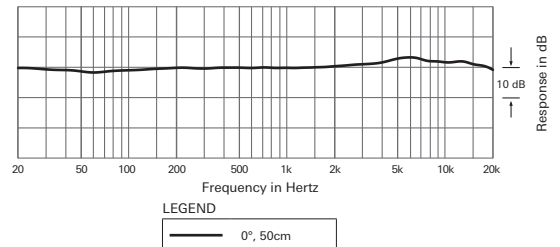
• 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

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

Polar pattern



Frequency response



Dimensions



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Made in Japan

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