AT4021

Cardioid Condenser End-Address Microphone

audio-technica

40 series studio microphones



Features

- Specially engineered to meet the most critical acoustic requirements of professional recording, broadcast and sound reinforcement
- Low self-noise perfectly suited for the most sophisticated recording equipment
- Low-mass diaphragm improves transient response, increases response bandwidth and reduces handling and mechanical noise transfer
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- · Rugged design and construction for reliable performance
- 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 AT4021 is a fixed-charge condenser microphone with a cardioid polar pattern. It is designed to meet the demands of critical studio and live applications.

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 for controlling feedback and reducing pickup of unwanted sounds.

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 AT8405a stand clamp permits mounting on any microphone stand with 5/s"-27 threads. A windscreen and a protective carrying case are also included.

Operation and Maintenance

The AT4021 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.

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 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.

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.

AT4021

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Specifications

t Fixed polar	Element
	Polar pattern
e 20-20	Frequency response
f 80 Hz	Low frequency roll-off
y —34 d	Open circuit sensitivity
	Impedance
I 146 d	Maximum input sound level
156 (
1 14 dE	Noise ¹
) 132 (Dynamic range (typical)
1 80 dE	Signal-to-noise ratio ¹
s 48V [Phantom power requirements
) Flat,	Switch(es)
t 119 g	Weight
s 144.(Dimensions
21.0	
r Integ	Output connector

Audio-Technica case style Accessories furnished

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/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.

d-charge back plate, permanently rized condenser lioid 20,000 Hz Iz, 18 dB/octave dB (19.9 mV) re 1V at 1 Pa ohms dB SPL, 1 kHz at 1% T.H.D.; dB SPL, with 10 dB pad (nominal) B SPL dB, 1 kHz at Max SPL B, 1 kHz at 1 Pa DC, 3.0 mA typical roll-off; 10 dB pad (nominal) g (4.2 oz) 0 mm (5.67") long, mm (0.83") diameter gral 3-pin XLRM-type S1

AT8405a stand clamp for $^{5}/_{8}$ "-27 threaded stands; AT8159 windscreen; protective carrying case



frequency response: 20-20,000 Hz

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polar pattern





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