

**Features**

- **Designed for critical home/project/professional studio applications and live performance**
- **Large diaphragm for smooth, natural sound and low noise**
- **High SPL handling and wide dynamic range provide unmatched versatility**
- **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**
- **Included 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 AT2035 is a large-diaphragm side-address fixed-charge condenser microphone with a cardioid polar pattern. It is designed for home/project/professional studio applications and live performance.

The microphone requires 11V to 52V 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 AT8458 shock mount provides superior isolation and permits mounting on any microphone stand with 5/8"-27 threads. A soft protective pouch is also included.

Operation and Maintenance

The AT2020 requires 11V to 52V 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 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.

Architect's and Engineer's Specifications

The microphone shall be a large-diaphragm side-address fixed-charge condenser. It shall have a cardioid polar pattern with a uniform 120° angle of acceptance and a frequency response of 20 Hz to 20,000 Hz. The microphone shall operate from an external 11V to 52V DC phantom power source. It shall be capable of handling sound input levels up to 148 dB (158 dB with 10 dB pad) with a dynamic range of 136 dB. Nominal open-circuit output voltage shall be 22.4 mV at 1V, 1 Pascal. Output shall be low impedance balanced (120 ohms).

The output of the microphone shall be a 3-pin XLRM-type connector.

The microphone shall be equipped with a switchable 10 dB pad and a switch that permits choice of flat response or 80 Hz low-frequency roll-off.

The microphone shall be 170.0 mm (6.69") long and have a maximum body diameter of 52.0 mm (2.05"). Weight shall be 403 grams (14.2 oz). The microphone shall include a shock mount and a soft protective pouch.

The Audio-Technica AT2035 is specified.

Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	20-20,000 Hz
Low frequency roll-off	80 Hz, 12 dB/octave
Open circuit sensitivity	-33 dB (22.4 mV) re 1V at 1 Pa
Impedance	120 ohms
Maximum input sound level	148 dB SPL, 1 kHz at 1% T.H.D.; 158 dB SPL, with 10 dB pad (nominal)
Noise¹	12 dB SPL
Dynamic range (typical)	136 dB, 1 kHz at Max SPL
Signal-to-noise ratio¹	82 dB, 1 kHz at 1 Pa
Phantom power requirements	11-52V DC, 3.8 mA typical
Switches	Flat, roll-off; 10 dB pad (nominal)
Weight	403 g (14.2 oz)
Dimensions	170.0 mm (6.69") long, 52.0 mm (2.05") maximum body diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	R5
Accessories furnished	AT8458 shock mount for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; soft protective pouch

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

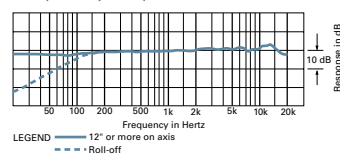
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

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

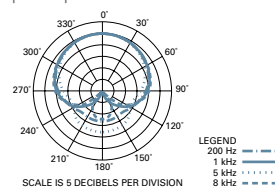
Specifications are subject to change without notice.



frequency response: 20–20,000 Hz



polar pattern



 **audio-technica**

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