

# ATM350

## Cardioid Condenser Clip-on Instrument Microphone



artist series live sound microphones



### Features

- Attaches to brass, reeds, piano, acoustic bass, snare, toms and violin
- Crisp, clear, well-balanced response, even at high SPLs
- Low-profile design for minimum visibility
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- UniMount® clip permits accurate positioning, provides shock resistance and protects element
- Unique violin mount permits unobtrusive placement of microphone between the instrument's bridge and tailpiece
- Switchable 80 Hz high-pass filter minimizes pickup of undesired low-frequency sounds
- Interchangeable elements available for hypercardioid and omnidirectional polar patterns
- Also available in a wireless model, ATM350cW

### ATM350 Description

The ATM350 is a fixed-charge clip-on condenser microphone with a cardioid polar pattern. It is designed for use in professional live-sound and studio applications.

When used with the included instrument mount, it provides accurate, consistent pickup of trumpet and saxophone and many other musical instruments. When used with the included violin mount, it provides outstanding pickup of violin and other stringed instruments.

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 for controlling feedback and reducing pickup of unwanted sounds.

The microphone includes a 4 m (13.1') permanently attached miniature cable. Its free end connects to the provided AT8542 power module via a TA3F-type connector. The output of the power module is a 3-pin XLRM-type connector.

A switch in the power module permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass filter) to help control undesired ambient noise.

The microphone is enclosed in a rugged housing with a low-reflectance black finish. A power module, an instrument mount, a violin mount and a soft protective pouch are included.

### ATM350cW Description

The microphone is also available in a wireless model, the ATM350cW. The ATM350cW features a 1.4 m (55") miniature cable terminated with a locking 4-pin connector for use with Audio-Technica UniPak® body-pack transmitters. No power module is included (or required) with the ATM350cW. The ATM350cW dimensions, polar pattern and included instrument mount and violin mount are identical to those of the ATM350.

### Operation and Maintenance

The ATM350 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 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 included UniMount® instrument mount entirely surrounds the microphone with foam to isolate the microphone from noise transmitted from the instrument, shield the element against accidental damage, and provide an efficient wind screen. The flexible arm permits aiming the microphone in any direction, while a cable strain relief reduces cable-transmitted noise and cable damage. The rubber grip spring clamp securely holds the microphone to the instrument without marring the surface.

To use the included violin mount, place the microphone in the violin mount's elastic mic holder. Open the hook & loop fastener; pass the hook side of the open fastener beneath the strings between the bridge and the tailpiece. Close the fastener flap around the strings. The microphone should be on top, with the element facing the bridge (away from the tailpiece).

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.

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## Specifications

<b>Element</b>	Fixed-charge back plate, permanently polarized condenser
<b>Polar pattern</b>	Cardioid
<b>Frequency response</b>	40-20,000 Hz
<b>Low frequency roll-off</b>	80 Hz, 12 dB/octave
<b>Open circuit sensitivity</b>	-49 dB (3.5 mV) re 1V at 1 Pa
<b>Impedance</b>	50 ohms
<b>Maximum input sound level</b>	149 dB SPL, 1 kHz at 1% T.H.D.
<b>Dynamic range (typical)</b>	122 dB, 1 kHz at Max SPL
<b>Signal-to-noise ratio<sup>1</sup></b>	67 dB, 1 kHz at 1 Pa
<b>Phantom power requirements</b>	11-52V DC, 3.5 mA typical
<b>Switch</b>	Flat, roll-off
<b>Weight</b>	Microphone: 14.5 g (0.5 oz) Power module: 81.2 g (2.9 oz)
<b>Dimensions</b>	Microphone: 37.8 mm (1.49") long, 12.2 mm (0.48") diameter Power module: 92.9 mm (3.66") long, 18.9 mm (0.74") diameter
<b>Output connector</b>	Power module: Integral 3-pin XLRM-type
<b>Cable(s)</b>	4.0 m (13.1') long (permanently attached to microphone), 3.2 mm (0.13") diameter, 2-conductor shielded cable with TA3F-type connector
<b>Optional interchangeable elements</b>	UE-O omnidirectional (360°) UE-H hypercardioid (100°)
<b>Audio-Technica case style</b>	M36
<b>Accessories furnished</b>	AT8542 power module; AT8418 UniMount <sup>®</sup> microphone instrument mount; AT8468 violin mount; 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.

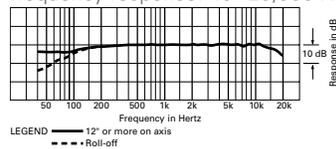
1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

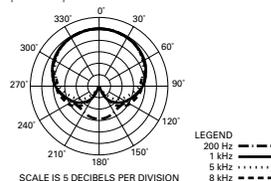
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## frequency response: 40–20,000 Hz



## polar pattern



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