

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.

To reduce the environmental impact of a multi-language printed document, product information is available online at www.audio-technica.com in a selection of languages.

Afin de réduire l'impact sur l'environnement de l'impression de plusieurs langues, les informations concernant les produits sont disponibles sur le site www.audio-technica.com dans une large sélection de langue.

Para reducir el impacto al medioambiente, y reducir la producción de documentos en varios leguajes, información de nuestros productos están disponibles en nuestra página del Internet: www.audio-technica.com.

Para reduzir o impacto ecológico de um documento impresso de várias línguas, a Audio-Technica providência as informações dos seus produtos em diversas línguas na www.audio-technica.com.

Per evitare l'impatto ambientale che la stampa di questo documento determinerebbe, le informazioni sui prodotti sono disponibili online in diverse lingue sul sito www.audio-technica.com.

Der Umwelt zuliebe finden Sie die Produktinformationen in deutscher Sprache und weiteren Sprachen auf unserer Homepage: www.audio-technica.com.

Om de gevolgen van een gedrukte meertalige handleiding op het milieu te verkleinen, is productinformatie in verschillende talen "on-line" beschikbaar op: www.audio-technica.com.

本公司基於減少對環境的影響，將不作多語言文件的印刷，有關產品訊息可在 www.audio-technica.com 的官方網頁上選擇所屬語言及瀏覽。

本公司基于减少对环境的影响，将不作多语言文档的印刷，有关产品信息可在 www.audio-technica.com 的官方网页上选择所属语言和浏览。

자원절약, 환경보호를 위해 국문 사용 설명서는 인쇄하지 않았습니다.
제품정보는 www.audio-technica.com 에서 원하는 언어 선택 후에 다운로드 받으실 수 있습니다.

Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	40-20,000 Hz
Low frequency roll-off	80 Hz, 12 dB/octave
Open circuit sensitivity	-49 dB (3.5 mV) re 1V at 1 Pa
Impedance	50 ohms
Maximum input sound level	149 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	122 dB, 1 kHz at Max SPL
Signal-to-noise ratio¹	67 dB, 1 kHz at 1 Pa
Phantom power requirements	11-52V DC, 3.5 mA typical
Switch	Flat, roll-off
Weight	Microphone: 14.5 g (0.5 oz) Power module: 81.2 g (2.9 oz)
Dimensions	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
Output connector	Power module: Integral 3-pin XLRM-type
Cable(s)	4.0 m (13.1') long (permanently attached to microphone), 3.2 mm (0.13") diameter, 2-conductor shielded cable with TA3F-type connector
Optional interchangeable elements	UE-O omnidirectional (360°) UE-H hypercardioid (100°)
Audio-Technica case style	M36
Accessories furnished	AT8542 power module; AT8418 UniMount® 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.

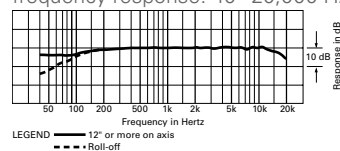
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

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

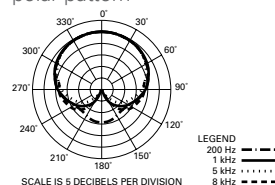
Specifications are subject to change without notice.



frequency response: 40–20,000 Hz



polar pattern



Audio-Technica Corporation
audio-technica.com ©2015 Audio-Technica

P#1423-11090B P52566