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**ATM650 Hyper**  
**Cardioid Dynamic**  
**Instrument**  
**Microphone**



# audio-technica ATM650 Hyper Cardioid Dynamic Instrument Microphone Owner's Manual

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**audio-technica ATM650 Hyper Cardioid Dynamic Instrument Microphone**



## Frequently Asked Questions

### **Q: Can I use the ATM650 microphone for vocals?**

A: While primarily designed for instrument recording, some users find the ATM650 suitable for vocal performances due to its hypercardioid pattern.

### **Q: Is the ATM650 microphone compatible with all audio interfaces?**

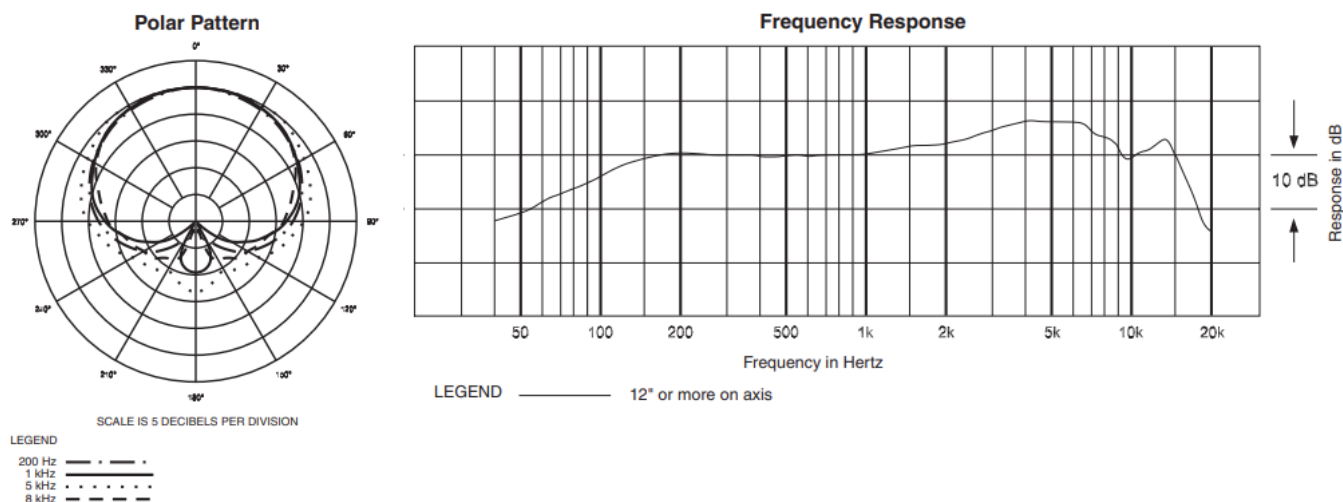
A: The ATM650 uses a standard XLR connection, making it compatible with most audio interfaces that support XLR inputs.

## Specifications

- **Element:** Dynamic
- **Polar Pattern:** Hypercardioid
- **Frequency Response:** 80-17,000 Hz
- **Open Circuit Sensitivity:** -56 dB (1.5 mV) re 1V at 1 Pa\*
- **Impedance:** 300 ohms
- **Weight:** 279 g (9.8 oz)
- **Dimensions:** 164.2 mm (6.46") long, 38.8 mm (1.53") diameter
- **Output Connector:** Integral 3-pin XLRM-type
- **Accessories Furnished:** AT8470 Quiet-Flex™ stand clamp 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/cm<sup>2</sup> = 10 microbars = 94 dB SPL Specifications are subject to change without notice.



## Setting Up the ATM650 Microphone

1. Attach the microphone to a compatible stand using the provided AT8470 stand clamp.
2. If needed, use the threaded adapter to fit the microphone onto different stand sizes.

## Connecting the Microphone

Connect the ATM650 microphone to your audio recording device using the included Integral 3-pin XLRM-type connector.

## Positioning the Microphone

Place the microphone in a hypercardioid pattern for optimal sound capture. Experiment with different angles to find the best position for your recording.

## Maintaining the Microphone

Store the microphone in the soft protective pouch when not in use to prevent damage. Clean the microphone regularly with a soft cloth to remove any dust or debris.

## Product Usage Instructions

- Tailored response for musical instrument pickup—guitar cabinets, snare and another percussion
- Hypercardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Durable performance for professional applications
- Special dual-wall floating construction reduces handling noise and assures consistent performance from mic to mic
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Multi-stage flat grille design is engineered to enable easy placement as close as possible to sound source
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Rugged, all-metal design and construction for years of trouble-free use
- Output from the microphone's XLRM-type connector 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. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer (A-T CP8201 or equal) at the equipment input.
- When using the ATM650 in settings with a stage monitor speaker, the speaker should be located 135° off axis (45° off the rear of the microphone). This placement, in conjunction with the microphone's uniform hypercardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.
- Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen's mesh surface, can degrade performance.
- Note: Remove the rubber sleeve at the base of the microphone handle to use the AT8471 isolation stand clamp (not included) for more secure, permanent installation.


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## Documents / Resources

	<p><a href="#">audio-technica ATM650 Hyper Cardioid Dynamic Instrument Microphone</a> [pdf] Owner's Manual</p> <p>ATM650 Hyper Cardioid Dynamic Instrument Microphone, ATM650, Hyper Cardioid Dynamic Instrument Microphone, Cardioid Dynamic Instrument Microphone, Dynamic Instrument Microphone, Instrument Microphone</p>
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## References

-  [Your Ultimate Resource for Millions of User Manuals](#)
-  [Audio-Technica - Headphones, Turntables, Microphones & Cartridges | Audio-Technica](#)
- [User Manual](#)

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