



- Tailored response for musical instrument pickup—guitar cabinets, snare and other 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.

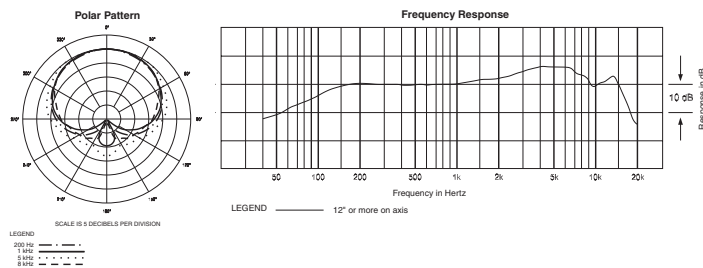
## ATM650 SPECIFICATIONS†

|                          |  |
|--------------------------|--|
| 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,<br>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.



Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224  
Audio-Technica Limited, Old Lane, Leeds LS11 8AG England  
www.audio-technica.com

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