

ATM650

Hypercardioid Dynamic Instrument Microphone



artist series live sound microphones



Features

- Tailored response for musical instrument pickup—guitar cabinets, snare and other percussion
- Rare-earth magnet for improved output and transient response
- Special dual-wall floating construction reduces handling noise and assures consistent performance from mic to mic
- Hypercardioid polar pattern provides maximum feedback rejection and isolation of desired sound source
- Multi-stage flat-grille design is engineered to enable easy placement as close as possible to sound source
- Rugged all-metal design and construction for years of trouble-free use
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Quiet-Flex™ stand clamp provides silent, flexible microphone positioning

Description

The ATM650 is a dynamic microphone with a hypercardioid polar pattern. It is designed specifically for musical instrument pickup in the studio and on stage.

The hypercardioid 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 output of the microphone is a 3-pin XLRM-type connector.

The microphone is enclosed in a rugged housing with a multi-stage flat-grille design. The included AT8470 Quiet-Flex™ stand clamp permits mounting on any microphone stand with $\frac{5}{8}$ "-27 threads. A soft protective pouch is also included.

Operation and Maintenance

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.

When using the microphone 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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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") head diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	T5
Accessories furnished	AT8470 Quiet-Flex™ stand clamp for $\frac{5}{8}$ "-27 threaded stands; $\frac{5}{8}$ "-27 to $\frac{3}{8}$ "-16 threaded adapter; soft protective pouch

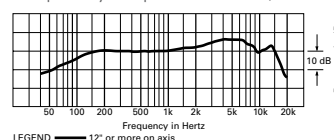
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

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

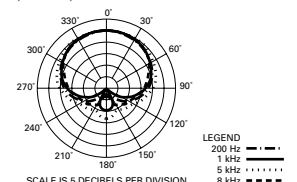
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frequency response: 80-17,000 Hz



polar pattern



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