



- Audio-Technica's proven dual-element design features two elements (condenser and dynamic) enclosed in a single housing
- Neodymium dynamic element provides punch and attack, while the condenser element captures the full audio spectrum
- Elements are positioned in a perfect phase relationship, something practically unachievable with two separate microphones
- Perfect for kick drum, guitar amps and instrument use
- Integral 80 Hz HPF switch and 10 dB pad (condenser element)
- Versatile mounting options and effective dampening of mechanical noise thanks to included AT8471 isolation clamp
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Rugged, all-metal design and construction for years of trouble-free use

The ATM250DE is intended for use in professional applications where remote power is available. It requires 11V to 52V DC phantom power only to the condenser output of the supplied cable.

Output from the microphone's 5-pin XLRM-type connector is low impedance (Lo-Z) balanced. The included 5.0 m (16.5') shielded cable features a 5-pin XLRF-type input connector and two standard 3-pin XLRM-type output connectors. The balanced signals appear across Pins 2 and 3 (condenser) and Pins 4 and 5 (dynamic). Pin 1 is ground (shield). Output is phased so that positive acoustic pressure produces positive voltage at Pins 2 and 4.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

An integral 80 Hz hi-pass filter on the condenser element 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.

The ATM250DE's condenser element is also equipped with a switchable 10 dB pad that lowers the microphone's sensitivity, thus providing higher SPL capability for flexible use with a wide range of performers and system configurations.

The ATM250DE includes an AT8471 isolation clamp to provide secure mounting, versatile positioning and effective dampening of unwanted mechanical noise.

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. 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.

## ATM250DE SPECIFICATIONS\*

<b>ELEMENTS</b>	Condenser, dynamic
<b>POLAR PATTERN</b>	Cardioid (condenser) Hypercardioid (dynamic)
<b>FREQUENCY RESPONSE</b>	40-20,000 Hz (condenser) 40-15,000 Hz (dynamic)
<b>LOW FREQUENCY ROLL-OFF</b>	80 Hz, 12 dB/octave (condenser)
<b>OPEN CIRCUIT SENSITIVITY</b>	-49 dB (3.5 mV) re 1V at 1 Pa* (condenser) -53 dB (2.2 mV) re 1V at 1 Pa* (dynamic)
<b>IMPEDANCE</b>	50 ohms (condenser) 600 ohms (dynamic)
<b>MAXIMUM INPUT SOUND LEVEL</b>	148 dB SPL, 1 kHz at 1% T.H.D. (condenser)
<b>DYNAMIC RANGE (typical)</b>	122 dB, 1 kHz at Max SPL (condenser)
<b>SIGNAL-TO-NOISE RATIO†</b>	68 dB, 1 kHz at 1 Pa* (condenser)
<b>PHANTOM POWER REQUIREMENTS</b>	11-52V DC, 3.5 mA typical (condenser)
<b>SWITCHES (condenser only)</b>	Flat, roll-off; 10 dB pad
<b>WEIGHT</b>	320 g (11.3 oz)
<b>DIMENSIONS</b>	143.6 mm (5.65") long, 55.0 mm (2.17") diameter
<b>OUTPUT CONNECTOR</b>	Integral 5-pin XLRM-type
<b>CABLE</b>	5.0 m (16.5') dual shielded, 8-conductor cable, 5-pin XLRF-type connector at microphone, two 3-pin XLRM-type output connectors

## ACCESSORIES FURNISHED

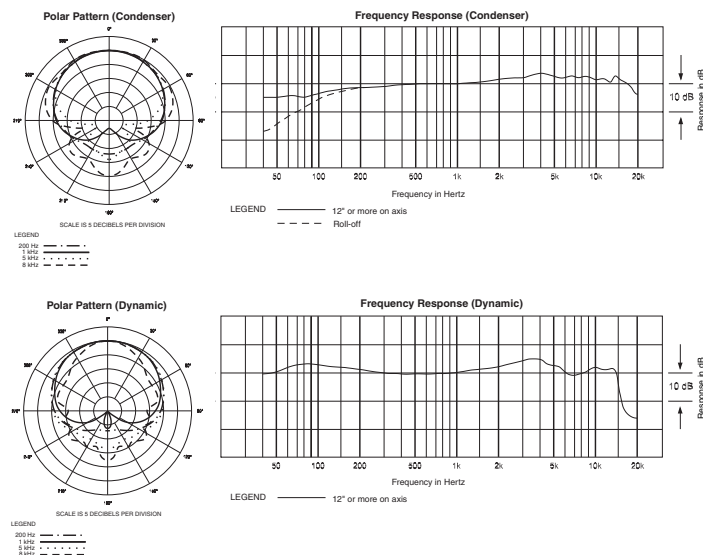
AT8471 isolation clamp for 5/8"-27 threaded stands;  
5/8"-27 to 3/8"-16 adapter;  
soft protective pouch

†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

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

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

