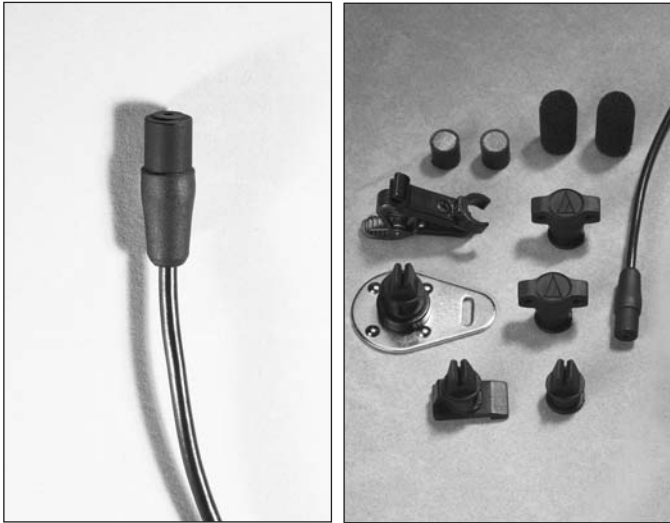


# AT899

## SUBMINIATURE OMNIDIRECTIONAL CONDENSER MICROPHONE

**BROADCAST  
& PRODUCTION**  
MICROPHONES



- Maximum intelligibility and clean, accurate reproduction for vocalists, lecturers, stage and television talent, and worship leaders
- Low-profile design (a mere 5 mm in diameter) is ideal for applications requiring minimum visibility
- Includes an extensive array of accessories
- Switchable low-frequency roll-off reduces sensitivity to popping in close vocal use
- Operates on battery or phantom power

The AT899 is designed to be worn as a lavalier or hidden in loose clothing or in the hair. For use as a lavalier, attach the microphone about six inches below the chin. Anticipate movements that may cause the microphone to rub against or be covered by clothing, and position the microphone to avoid it.

The included single and double mic holders are interchangeable with all the bases. To change the holders, simply remove original holder and snap in the desired one. When using the AT899 in extremely close situations, slip the included open-pore foam windscreen over the mic to reduce wind noise or "popping." Use the included element cover to protect the microphone element from contaminants.

**CAUTION!** To avoid possible injury, use caution when affixing the AT899 viper clip to clothing. The pins are sharp and may puncture skin. For best results, ensure that pin ends rest on outside of clothing.

The AT899 requires 11-52V DC phantom power, or a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

**Battery installation:** Unscrew the base of the power supply unit and insert one AA battery into the battery compartment, being certain to observe battery polarity as marked. Then simply screw the base shut. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Output from the power module'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.

The microphone is RoHS compliant—free from all substances specified in the EU directive on hazardous substances.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43° C (110° F) for extended periods. Extremely high humidity should also be avoided.

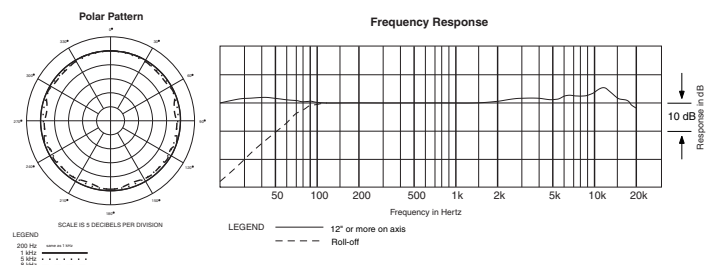
### AT899 SPECIFICATIONS<sup>1</sup>

|                                                         |                                                                                                                                                                                                                                                |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELEMENT</b>                                          | Fixed-charge back plate permanently polarized condenser                                                                                                                                                                                        |
| <b>POLAR PATTERN</b>                                    | Omnidirectional                                                                                                                                                                                                                                |
| <b>FREQUENCY RESPONSE</b>                               | 20-20,000 Hz                                                                                                                                                                                                                                   |
| <b>LOW FREQUENCY ROLL-OFF</b>                           | 80 Hz, 12 dB/octave                                                                                                                                                                                                                            |
| <b>OPEN CIRCUIT SENSITIVITY</b><br>(Phantom / Battery)  | -43 dB (7.0 mV) /<br>-46 dB (5.0 mV) re 1V at 1 Pa*                                                                                                                                                                                            |
| <b>IMPEDANCE</b> (Phantom / Battery)                    | 200 ohms / 250 ohms                                                                                                                                                                                                                            |
| <b>MAXIMUM INPUT SOUND LEVEL</b><br>(Phantom / Battery) | 138 dB / 116 dB SPL,<br>1 kHz at 1% T.H.D.                                                                                                                                                                                                     |
| <b>DYNAMIC RANGE</b> (typical)<br>(Phantom / Battery)   | 108 dB / 86 dB,<br>1 kHz at Max SPL                                                                                                                                                                                                            |
| <b>SIGNAL-TO-NOISE RATIO<sup>†</sup></b>                | 64 dB, 1 kHz at 1 Pa*                                                                                                                                                                                                                          |
| <b>PHANTOM POWER REQUIREMENTS</b>                       | 11-52V DC, 2 mA typical                                                                                                                                                                                                                        |
| <b>BATTERY TYPE</b>                                     | 1.5V AA/UM3                                                                                                                                                                                                                                    |
| <b>BATTERY CURRENT / LIFE</b>                           | 0.4 mA / 1200 hours typical<br>(alkaline)                                                                                                                                                                                                      |
| <b>SWITCH</b>                                           | Flat, roll-off (recessed)                                                                                                                                                                                                                      |
| <b>WEIGHT</b> (less cable and accessories)              |                                                                                                                                                                                                                                                |
| <b>MICROPHONE</b>                                       | 0.5 g (0.02 oz)                                                                                                                                                                                                                                |
| <b>POWER MODULE</b>                                     | 102 g (3.6 oz)                                                                                                                                                                                                                                 |
| <b>DIMENSIONS</b>                                       |                                                                                                                                                                                                                                                |
| <b>MICROPHONE</b>                                       | 16.0 mm (0.63") long,<br>5.0 mm (0.20") diameter                                                                                                                                                                                               |
| <b>POWER MODULE</b>                                     | 145.0 mm (5.71") long,<br>21.0 mm (0.83") diameter                                                                                                                                                                                             |
| <b>OUTPUT CONNECTOR</b><br>(power module)               | Integral 3-pin XLRM-type                                                                                                                                                                                                                       |
| <b>CABLE</b>                                            | 3.0 m (9.8') long (permanently attached to microphone), 2.0 mm (0.08") diameter, 2-conductor, shielded cable with TA3F output connector that mates with TB3M jack on power module                                                              |
| <b>ACCESSORIES FURNISHED</b>                            | AT8537 power module; AT8439 cable clip; clothing clip base; viper clip base; magnet clip base and plate with lanyard; three single mic holders; two double mic holders; two element covers; two windscreens; battery; protective carrying case |

<sup>†</sup>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

<sup>†</sup>Typical, A-weighted, using Audio Precision System One. Specifications are subject to change without notice.



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