

# AE5400/LE Limited Edition

Cardioid Condenser Handheld Microphone

 **audio-technica**

artist elite® live sound microphones



## Features

- **Special 50th anniversary limited edition in silver-colored metallic finish with etched-on serial number and carefully crafted wooden case**
- **Pristine sound quality demanded by the most discriminating microphone user**
- **Same large-diaphragm element as the renowned AT4050 studio microphone; true condenser design**
- **Custom transformer improves performance specifications by isolating against noise and RF interference, and providing excellent saturation characteristics that contribute to smooth linear sound quality**
- **Superior anti-shock engineering ensures low handling noise and quiet performance**
- **High-quality double-sided PCB uses surface-mount components. Extensive grounding plane and attention to best-practice grounding methods minimize electrical noise**
- **Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source**
- **Multi-stage grille design offers excellent protection against plosives and sibilance without compromising high-frequency clarity**
- **Robust all-metal design for enduring dependability on the road**
- **Quiet-Flex™ stand clamp provides silent, flexible microphone positioning**
- **Integral 80 Hz high-pass filter switch and 10 dB pad switch**

## Description

To celebrate Audio-Technica's 50th Anniversary, A-T has introduced the special limited edition AE5400/LE Anniversary Microphone in a silver-colored metallic finish with blue accents. A unique serial number is etched on the surface of each AE5400/LE. The limited edition offering comes with a beautifully crafted wooden carrying case.

The AE5400/LE is a handheld condenser microphone with a cardioid polar pattern. It is designed specifically for close-up vocal use in professional live-sound and studio applications.

The microphone requires 11V to 52V phantom power for operation.

The cardioid polar pattern of the microphone is more sensitive to sound originating directly in front of the element, making it useful for controlling feedback, reducing pickup of unwanted sounds and providing isolation between performers.

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

The microphone is equipped with a switchable 10 dB pad and a switch that permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass filter).

The microphone is enclosed in a rugged housing. Its multi-stage grille design offers excellent protection against plosives and sibilance without compromising high-frequency clarity. The included AT8470 Quiet-Flex™ stand clamp permits mounting on any microphone stand with 5/8"-27 threads. A wooden case is also included.

## Operation and Maintenance

The AE5400/LE requires 11V to 52V phantom power for operation.

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 180° off axis (at rear of the microphone). This placement, in conjunction with the microphone's uniform cardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.

An integral 80 Hz high-pass filter 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. To engage the filter, use the end tip of a paperclip or other small pointed instrument to slide the switch toward the "bent" line.

The microphone 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 users and system configurations. To engage the 10 dB pad, use the end tip of a paperclip or other small pointed instrument to slide the switch toward the -10 position.

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

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## Specifications

<b>Element</b>	Externally polarized (DC Bias) condenser
<b>Polar pattern</b>	Cardioid
<b>Frequency response</b>	20-20,000 Hz
<b>Low frequency roll-off</b>	80 Hz, 12 dB/octave
<b>Open circuit sensitivity</b>	-40 dB (10.0 mV) re 1V at 1 Pa
<b>Impedance</b>	150 ohms
<b>Maximum input sound level</b>	147 dB SPL, 1 kHz at 1% T.H.D.; 157 dB SPL, with 10 dB pad (nominal)
<b>Noise<sup>1</sup></b>	14 dB SPL
<b>Dynamic range (typical)</b>	133 dB, 1 kHz at Max SPL
<b>Signal-to-noise ratio<sup>1</sup></b>	80 dB, 1 kHz at 1 Pa
<b>Phantom power requirements</b>	11-52V DC, 4 mA typical
<b>Switches</b>	Flat, roll-off; 10 dB pad (nominal)
<b>Weight</b>	330 g (11.6 oz)
<b>Dimensions</b>	179.0 mm (7.05") long, 50.0 mm (1.97") head diameter
<b>Output connector</b>	Integral 3-pin XLRM-type
<b>Audio-Technica case style</b>	T4
<b>Accessories furnished</b>	AT8470 Quiet-Flex™ stand clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; wooden case

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

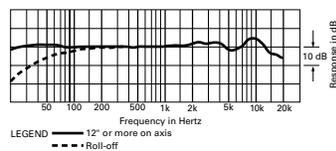
1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

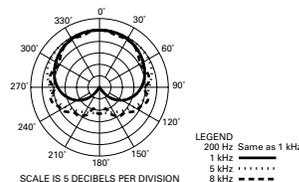
Specifications are subject to change without notice.

*Note: Due to limited production of the AE5400/LE, replacement parts are in limited supply. When the stock of the AE5400/LE parts is depleted, AE5400 parts will be available.*

frequency response: 20–20,000 Hz



polar pattern



 **audio-technica**

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