

AE4100/LE Limited Edition

artist elite® live sound microphones

Cardioid Dynamic Handheld Microphone



Features

- **Special 50th anniversary limited edition in silver-colored metallic finish with serial number etched on the surface**
- **Classic dynamic microphone sound with added vocal presence**
- **Optimized for the stage with excellent isolation properties**
- **The back-cavity assembly “floats” inside the handle shell, providing exceptional isolation from handling 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**

Description

To celebrate Audio-Technica's 50th Anniversary, A-T has introduced the special limited edition AE4100/LE Anniversary Microphone in a silver-colored metallic finish with blue accents. A unique serial number is etched on the surface of each limited edition AE4100/LE.

The AE4100/LE is a dynamic microphone with a cardioid polar pattern. It is designed specifically for close-up vocal use in professional live-sound applications.

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 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 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. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer at the equipment input.

When using the microphone in settings with a stage monitor speaker, the speaker should be located 180° off axis (at the 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.

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.

Architect's and Engineer's Specifications

The microphone shall be a moving coil dynamic designed for handheld or stand use. It shall have a cardioid polar pattern with a uniform 120° angle of acceptance and a frequency response of 90 Hz to 18,000 Hz. Nominal open-circuit output voltage shall be 1.7 mV at 1V, 1 Pascal. Output shall be low impedance balanced (250 ohms).

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

The microphone shall be 177.0 mm (6.97") long and have a head diameter of 48.0 mm (1.89"). Weight shall be 310 grams (10.9 oz). The microphone shall include a stand clamp and a soft protective pouch.

The Audio-Technica AE4100/LE is specified.

Specifications

Element	Dynamic
Polar pattern	Cardioid
Frequency response	90-18,000 Hz
Open circuit sensitivity	-55 dB (1.7 mV) re 1V at 1 Pa
Impedance	250 ohms
Weight	310 g (10.9 oz)
Dimensions	177.0 mm (6.97") long, 48.0 mm (1.89") head diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	T4
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

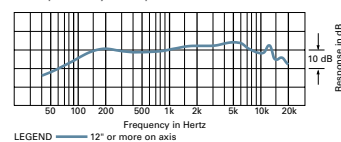
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

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

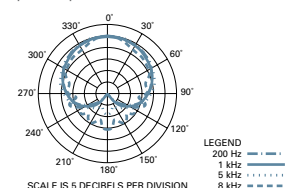
Specifications are subject to change without notice.

Note: Due to limited production of the AE4100/LE, replacement parts are in limited supply. When the stock of the AE4100/LE parts is depleted, AE4100 parts will be available.

frequency response: 90–18,000 Hz



polar pattern



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