

AT8024

Stereo/Mono Camera-Mount Microphone

 audio-technica

broadcast & production microphones



Features

- **Designed for use with DSLR and other video cameras, delivering dramatically better sound quality than the camera's internal microphone**
- **Selectable line-cardioid mono or mid-side stereo modes provide the flexibility to capture high-resolution audio in any environment**
- **Three-position adjustable attenuator and switchable low-frequency roll-off**
- **Integral rubber shock mounts isolate the microphone from vibration and mechanical camera noise**
- **Compact, lightweight design with integral shoe mount**

Description

The AT8024 is a fixed-charge condenser microphone designed for use with DSLR and other video cameras. The microphone offers the flexibility of mono and mid-side stereo modes for high-resolution audio in any environment.

The microphone is powered by a single 1.5V AA battery, included. The AA battery provides optimal performance with high max SPL. A red/green LED power indicator, located on the top of the unit, illuminates green when the microphone is sufficiently powered and red when battery power is low. The AT8024 is equipped with a three-position attenuator switch. The microphone also features an 80 Hz high-pass filter switch that permits choice of flat response or low-frequency roll-off to reduce the pickup of undesired ambient noise, room reverberation and mechanically coupled vibrations.

The microphone is enclosed in a rugged housing and includes an integral shoe mount that fits most camera shoes. Two rubber shock mounts isolate the microphone from vibration and mechanical camera noise. The microphone includes a permanently attached cable with a 3.5 mm (1/8") L-type stereo plug output. A clip on the shoe mount holds the cable, relieving tension and preventing vibration noise.

A foam windscreen and fuzzy windscreen are also included.

Operation & Maintenance

The mode switch located on the top of the unit allows user to select between mono and internally matrixed mid-side stereo modes.

Mono Operation: In Mono mode, the microphone uses its line-cardioid element exclusively to provide excellent off-axis rejection. This is ideal for recording interviews, dialogues or sound sources that might otherwise be drowned out in noisy environments.

Mid-Side Stereo Operation: In Stereo mode, the microphone provides internally matrixed mid-side stereo, delivering wide, life-like stereo sound. Locating the AT8024 nearer the sound source will enhance the apparent

width of the stereo image, while decreasing room ambience. Moving the microphone away from the sound source will narrow the stereo image and provide more "room sound." The Stereo mode is well-suited for sporting events and other active situations where sonic realism is desired.

The integral shoe mount slides into the shoe of most cameras. Tighten the nut on the shoe mount to hold the microphone securely in place. The shoe mount is also equipped with a strain-relief clip for the cable. Insert the cable into the clip to reduce wear on the cable and eliminate noise from cable vibration.

To install the battery, press the PUSH button located on the side of the unit. This will eject the battery compartment. Insert a 1.5V AA battery according to the polarity markings in the compartment, then press the compartment back into the body of the unit so that it clicks closed. When the mode switch is moved from the Off position to Mono or Stereo, the LED power indicator will illuminate green, showing that the microphone has power. Replace or recharge the battery when the LED illuminates red.

The output level can be adjusted by using the three-position attenuator switch (-20 dB, -10 dB, 0 dB) located on the top of the unit. Adjust according to the volume of the sound source: -20 dB for the loudest sounds, 0 dB for the softest. The 80 Hz high-pass filter switch is located alongside the attenuator switch. To engage the high-pass filter, slide the switch toward the "bent" line.

Since even slight or unexpected winds can adversely affect audio recordings, it is best to use the microphone with the supplied windscreen or, when recording in especially windy environments, the supplied fuzzy windscreen.

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.

To reduce the environmental impact of a multi-language printed document, product information is available online at www.audio-technica.com in a selection of languages.

Afin de réduire l'impact sur l'environnement de l'impression de plusieurs langues, les informations concernant les produits sont disponibles sur le site www.audio-technica.com dans une large sélection de langue.

Para reducir el impacto al medioambiente, y reducir la producción de documentos en varios leguajes, información de nuestros productos están disponibles en nuestra página del Internet: www.audio-technica.com.

Para reduzir o impacto ecológico de um documento impresso de várias línguas, a Audio-Technica providência as informações dos seus produtos em diversas línguas na www.audio-technica.com.

Per evitare l'impatto ambientale che la stampa di questo documento determinerebbe, le informazioni sui prodotti sono disponibili online in diverse lingue sul sito www.audio-technica.com.

Der Umwelt zuliebe finden Sie die Produktinformationen in deutscher Sprache und weiteren Sprachen auf unserer Homepage: www.audio-technica.com.

Om de gevolgen van een gedrukte meertalige handleiding op het milieu te verkleinen, is productinformatie in verschillende talen "on-line" beschikbaar op: www.audio-technica.com.

本公司基於減少對環境的影響，將不作多語言文件的印刷，有關產品訊息可在 www.audio-technica.com 的官方網頁上選擇所屬語言及瀏覽。

本公司基于减少对环境的影响，将不作多语言文档的印刷，有关产品信息可在 www.audio-technica.com 的官方网页上选择所属语言和浏览。

자원절약, 환경보호를 위해 국문 사용 설명서는 인쇄하지 않았습니다. 제품정보는 www.audio-technica.com 에서 원하는 언어 선택 후에 다운로드 받으실 수 있습니다.

Specifications

Elements	Fixed-charge back plate, permanently polarized condenser
Polar patterns	Line-cardioid, LR stereo
Frequency response	40-15,000 Hz
Low frequency roll-off	80 Hz, 12 dB/octave
Open circuit sensitivity (Mono & LR Stereo)	-37 dB (14.1 mV) re 1V at 1 Pa
Impedance	50 ohms
Maximum input sound level (Mono & LR Stereo)	128 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	Mono: 106 dB, 1 kHz at Max SPL; Stereo: 104 dB, 1 kHz at Max SPL
Signal-to-noise ratio¹	Mono: 72 dB, 1 kHz at 1 Pa; Stereo: 70 dB, 1 kHz at 1 Pa
Battery (included)	Type: One 1.5V AA; Life: 80 hours typical
Switches	Mono, M-S Stereo; Three-position attenuator; Flat, roll-off
Weight	114 g (4.0 oz)
Dimensions	172.0 mm (6.77") long, 24.0 mm (0.94") maximum body diameter
Output connector	3.5 mm stereo mini-plug on cable
Cable	Permanently attached 0.2 m-1 m (7.8"-39.3") coiled cable with right-angle molded 3.5 mm stereo mini-plug at output end
Accessories furnished	AT8124 Foam windscreen; AT8124F Fuzzy windscreen; AA battery

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

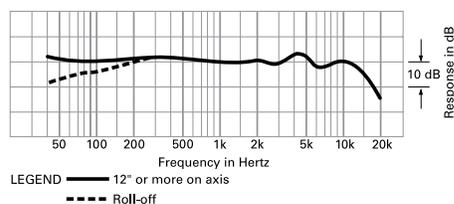
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

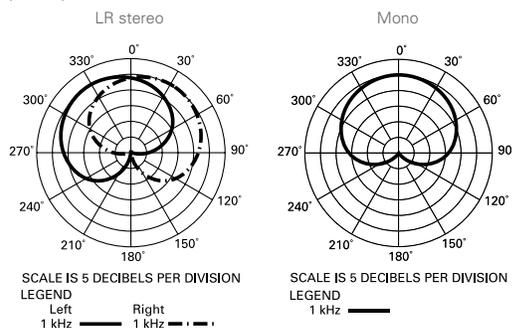
Specifications are subject to change without notice.



frequency response: 40–15,000 Hz



polar patterns



audio-technica

Audio-Technica Corporation
audio-technica.com ©2015 Audio-Technica

P52528-01