



audio-technica BP28 / BP28L Line plus Gradient Large Diaphragm Condenser Microphone User Guide

[Home](#) » [Audio-Technica](#) » audio-technica BP28 / BP28L Line plus Gradient Large Diaphragm Condenser Microphone User Guide 

Contents

- [1 audio-technica BP28 / BP28L Line plus Gradient Large Diaphragm Condenser Microphone](#)
- [2 Features](#)
- [3 Notes on use](#)
- [4 Safety precaution](#)
- [5 Connection procedure](#)
- [6 Specifications](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)
- [8 Related Posts](#)

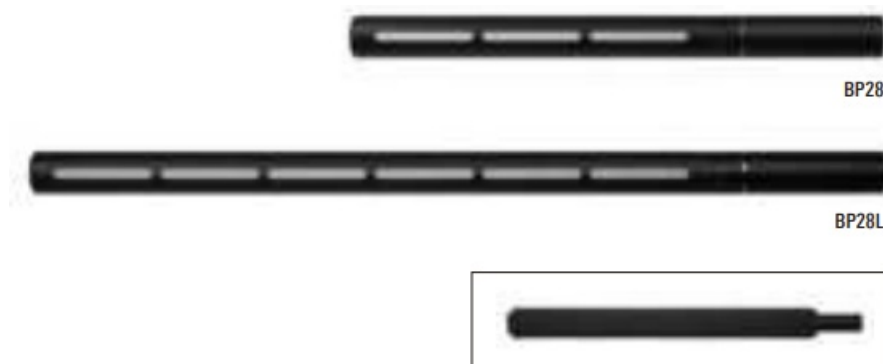
audio-technica

audio-technica BP28 / BP28L Line plus Gradient Large Diaphragm Condenser Microphone



Thank you for purchasing this product. Before using the product, read through the user manual to ensure that you will use the product correctly.

Please keep this manual for future reference.



Features

- Large-diaphragm condenser element and optimized circuitry deliver exceptional low-noise performance – ideal for film/TV production and broadcasting applications
- Overall length of 354.9 mm with a highly directional pickup pattern (BP28)
- Overall length of 567.9 mm with an extremely narrow, highly directional pickup pattern (BP28L)
- Transformer-coupled output provides smooth sonic character
- Extremely high sensitivity (BP28: -28 dBV / BP28L: -23 dBV), wide dynamic range (135 dB), and high-SPL capability (BP28: 143 dB / BP28L: 138 dB)
- Flat frequency response for accurate sound reproduction
- Rugged housing made of lightweight, structural-grade aluminum alloy
- Switchable 80 Hz high-pass filter and 10 dB pad

- Patented acoustic port design maintains directionality across the entire frequency range

Notes on use

The BP28 and BP28L require 11V to 52V phantom power for operation, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or AT8506 four-channel phantom power supplies. Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43°C for extended periods. Extremely high humidity should also be avoided.

Safety precaution

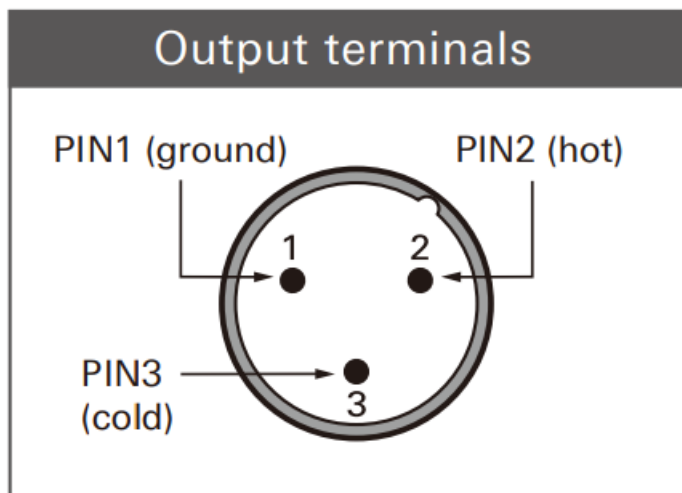
Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

Cautions for the product

- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or dusty place.

Connection procedure

Connect the output terminals of the microphone to a device that has a microphone input (balanced input) compatible with a phantom power supply. The output connector is an XLRM-type with polarity as shown in the figure below.



This product requires 48 V DC phantom power.

Specifications

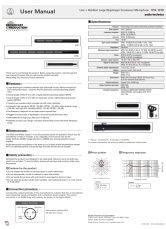
Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Line + gradient
Frequency response	BP28: 20-19,000 Hz, BP28L: 20-20,000 Hz
Low cut	80 Hz, 18 dB/octave
Pad	-10 dB
Open circuit sensitivity	BP28: -28 dB(39.8 mV) (0 dB=1 V/Pa, 1 kHz) BP28L: -23 dB(70.8 mV) (0 dB=1 V/Pa, 1 kHz)
Impedance	250 ohms
Maximum input sound level	BP28: 143 dB SPL (1 kHz at 1% THD), 153 dB SPL (on pad) BP28L: 138 dB SPL (1 kHz at 1% THD), 148 dB SPL (on pad)
Noise	BP28: 8 dB SPL (A-weighted) BP28L: 3 dB SPL (A-weighted)
Dynamic range (typical)	135 dB (1 kHz at Max SPL)
Signal-to-noise ratio	BP28: 86 dB (1 kHz at 1 Pa, A-weighted) BP28L: 91 dB (1 kHz at 1 Pa, A-weighted)
Phantom power requirements	11-52 V DC, 3.4 mA
Switch	Low cut: on/off , Pad: on/off
Weight	BP28: 223 g BP28L: 313 g
Dimensions	BP28: 354.9 mm long / BP28L: 567.9 mm long, 28.0 mm maximum body diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	BP28: SG6, BP28L: SG7
Included accessories	Windscreen (BP28:AT8170/BP28L:AT8169), holder(AT8470), stand adapter (3/8"-5/8"), carry case



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

For product improvement, the product is subject to modification without notice.

Polar pattern

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References

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Audio-Technica Corporation](#)