

Audio
**BP28L Gradient Large
Diaphragm Condenser
Microphone**



Audio BP28L Gradient Large Diaphragm Condenser Microphone Instruction Manual

[Home](#) » [audio](#) » Audio BP28L Gradient Large Diaphragm Condenser Microphone Instruction Manual 

Contents

- 1 [Audio BP28L Gradient Large Diaphragm Condenser Microphone](#)
- 2 [Features](#)
- 3 [Safety precaution](#)
- 4 [Connection procedure](#)
- 5 [Switch settings](#)
- 6 [Specifications](#)
- 7 [Polar pattern](#)
- 8 [Frequency response](#)
- 9 [Dimensions](#)
- 10 [Included accessories](#)
- 11 [Warranty](#)
- 12 [Frequently Asked Questions](#)
- 13 [Documents / Resources](#)
 - 13.1 [References](#)

Audio

Audio BP28L 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
- The overall length of 354.9 mm with a highly directional pickup pattern (BP28)
- The overall length of 567.9 mm with an extremely narrow, highly directional pickup pattern (BP28L)
- The transformer-coupled output provides smooth sonic character
- Extremely high sensitivity (BP 28: -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
- The patented acoustic port design maintains directionality across the entire frequency range

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

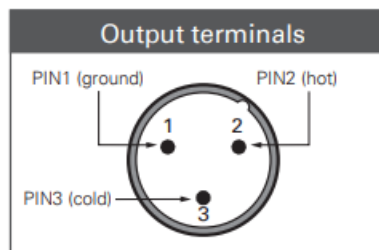
- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify, or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices, or in a hot, humid,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

Notes on use

- Do not connect/disconnect the capsule with the preamplifier while the phantom power is being supplied.
- Do not touch the circuit board of the capsule and pins of the preamplifier with bare hands
- In case you have to attach the holder to the capsule not to a preamplifier, attach it as the UP mark of the capsule faces upward. Be aware not to damage the slit mesh of the capsule.


Connection procedure

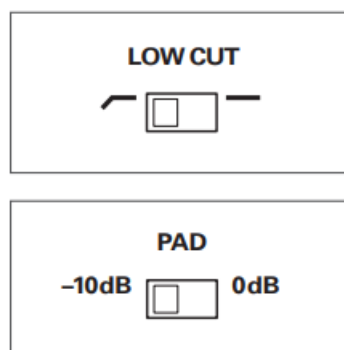
Connect the output terminals of the microphone to a device that has a microphone input (balanced input) compatible with a phantom power supply. The output connector is an XLRM-type with polarity as shown in the figure below.



This product requires 48 V DC phantom power.

Switch settings

- To reduce the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation, and mechanically coupled vibrations, turn ON () the low-cut filter switch located on the side of the product.
- If audio input exceeds the maximum input sound level, set the pad switch to -10 dB.



Specifications

1. **Element:** Fixed-charge back plate, permanently polarized condenser
2. **Polar pattern:** Line + gradient
3. **Frequency response:** BP28: 20-19,000 Hz, BP28L: 20-20,000 Hz
4. **Low cut:** 80 Hz, 18 dB/octave
5. **Pad:** -10 dB
6. **Open circuit sensitivity:** BP28: -28 dB(39.8 mV), BP28L: -23 dB(70.8 mV)
7. **Impedance:** 250 ohms
8. **Maximum input sound level:** BP28: 143 dB SPL, 153 dB SPL (When the pad is on), BP28L: 138 dB SPL, 148 dB SPL (When the pad is on)
9. **Noise:** BP28: 8 dB SPL (A-weighted), BP28L: 3 dB SPL (A-weighted)
10. **Dynamic range:** 135 dB
11. **Signal-to-noise ratio:** BP28: 86 dB, BP28L: 91 dB (A-weighted)
12. **Phantom power requirements:** 11-52 V DC, 3.4 mA
13. **Switches:** Low cut: on/off, Pad: on/off
14. **Weight:** BP28: 223 g (7.9 oz), BP28L: 313 g (11 oz)
15. **Dimensions:** BP28: 354.9 mm (14.0) long, BP28L: 567.9 mm (22.4) long, 28.0 mm (1.1) maximum body diameter
16. **Output connector:** Integral 3-pin XLR-M type
17. **Audio-Technica case style**
 1. BP28: SG6
 2. BP28L: SG7
18. **Included accessories**

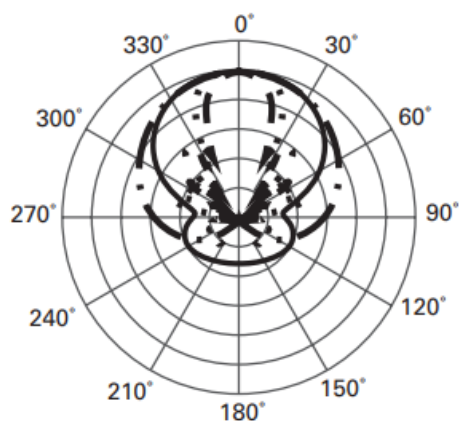
Windscreen (BP28:AT8170/BP28L:AT8169), holder (AT8470), stand adapter (3/8"-5/8")

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

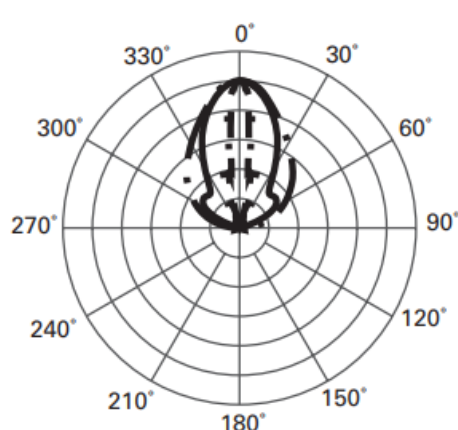
For product improvement, the product is subject to modification without notice.

Polar pattern

BP28



BP28L

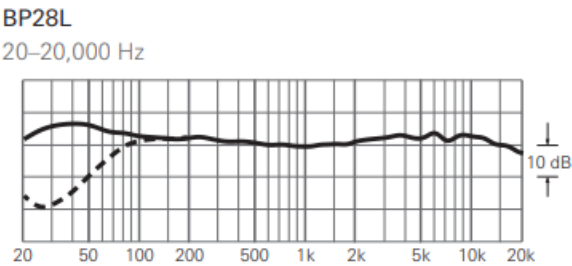
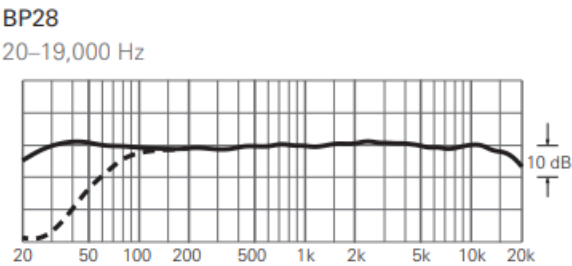


LEGEND



200 Hz — . — .
1 kHz —————
5 kHz
8 kHz - - - - -

Frequency response

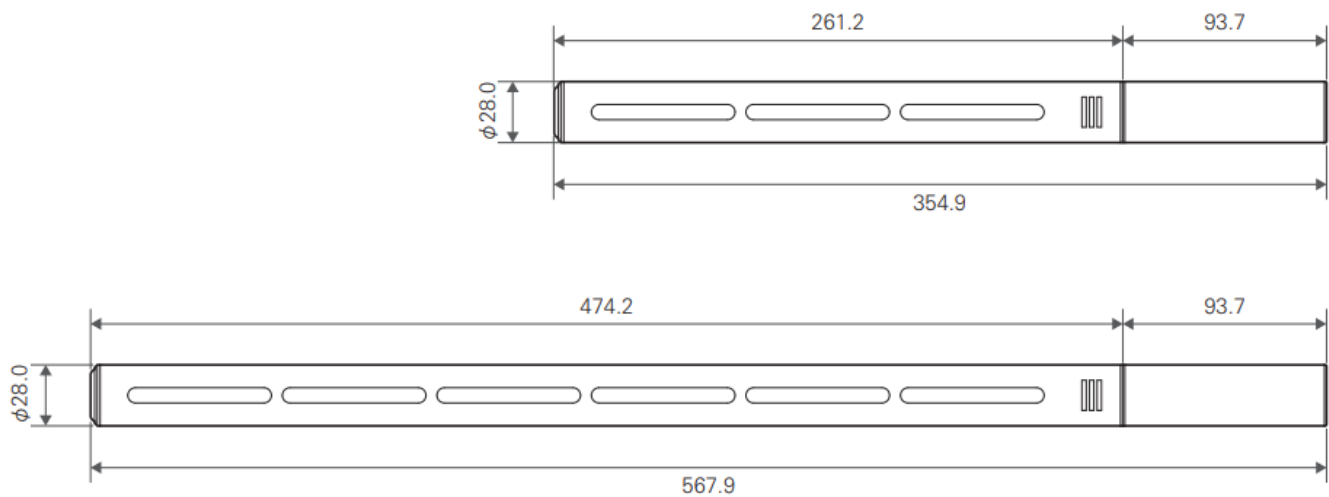
- Response in dB
- Response in dB



LEGEND

	0°, 50 cm		0°, 50cm, ローカット
			0°, 50 cm, Low cut
			0°, 50 cm, coupe-bas
			0°, 50 cm, Low Cut
			0°, 50 cm, passa-alto
			0°, 50 cm, paso alto
			0°, 50 cm, corte baixo
			0°, 50 см, фильтр нижних частот
			0°, 50 cm, 低載
			0° , 50 cm , 高通濾波
			0° , 50cm, 로우컷

Dimensions



Included accessories



AT8170(BP28 用)



AT8169(BP28L 用)



Warranty

Warranty (Please be sure to read the notes below.)

• For USA Only

- End-User LIMITED WARRANTY information for the USA is available at www.audio-technica.com/usawarranties. You may also contact Audio-
- Technica U.S., Inc. to request a written copy of the Limited Warranty at 1- [330-686-2600](tel:330-686-2600) or via mail at 1221 Commerce Drive, Stow, OH 44224.

Audio-Technica Corporation

- 2-46-1 Nishi-Naruse, Machida, Tokyo 194-8666, Japan
- ©2023 Audio-Technica Corporation
- Global Support Contact: www.at-globalsupport.com

Frequently Asked Questions

- **Q: What is the phantom power requirement for this microphone?**
 - A: The microphone requires 48 V DC phantom power.
- **Q: How can I reduce ambient noise while using this microphone?**
 - A: You can turn on the low-cut filter switch to reduce low-frequency ambient noise.

Documents / Resources



[Audio BP28L Gradient Large Diaphragm Condenser Microphone](#) [pdf] Instruction Manual
BP28L Gradient Large Diaphragm Condenser Microphone, BP28L, Gradient Large Diaphragm
Condenser Microphone, Large Diaphragm Condenser Microphone, Diaphragm Condenser Micr
ophone, Condenser Microphone, Microphone

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.