

BP28 Line + Gradient Large Diaphragm Condenser Microphone



Broadcast & Production

Features

- Ideal for film/TV production and broadcasting applications
- Large-diaphragm condenser element and optimized circuitry deliver exceptional low-noise performance
- Overall length of 14.0" (354.9 mm) with a highly directional pickup pattern
- Transformer-coupled output provides smooth sonic character, and maintains a constant load output impedance for a stable relationship between the mic and mic preamp
- Extremely high sensitivity (-28 dBv), wide dynamic range (135 dB), and high-SPL capability (143 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 BP28L version features a 22" length for improved directionality

Description

The BP28 combines a large-diaphragm condenser element with a 28 mm diameter shotgun body for exceptional low-noise performance.

With a highly directional pickup pattern and a patented acoustic port design that maintains directionality across the entire frequency range, this 14" shotgun microphone is specially tailored to meet the needs of broadcast, film, television, outdoors recording and theater applications. Particularly suitable for long-distance miking for film or theater, the BP28 has an exceptionally low noise floor (8 dB) and transformer-coupled outputs that produce a smooth sonic character. The microphone also provides extremely high sensitivity (-28 dBV), wide dynamic range (135 dB), and high-SPL capability (143 dB), and is equipped with a switchable 80 Hz high-pass filter and 10 dB pad.

Operation and Maintenance

The BP28 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.

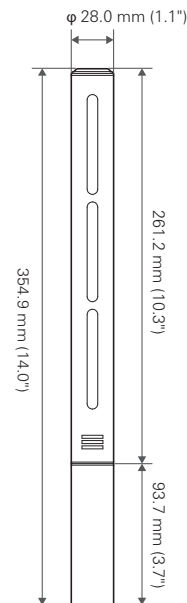
To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

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 high-pass 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.

Note: The power module and interference tube are detachable. Make certain this connection is hand-tight before use.

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.



BP28

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Specifications

| | |
|------------------------------------|---|
| Element | Fixed-charge back plate, permanently polarized condenser |
| Polar pattern | Line + gradient |
| Frequency response | 20-20,000 Hz |
| Low frequency roll-off | 80 Hz, 18 dB/octave |
| Pad | -10 dB |
| Open circuit sensitivity | -28 dB(39.8 mV) (0 dB=1 V/Pa, 1 kHz) |
| Impedance | 250 ohms |
| Maximum input sound level | 143 dB SPL (1 kHz at 1% THD), 153 dB SPL (When pad is on.) |
| Noise ¹ | 8 dB SPL (A-weighted) |
| Dynamic range (typical) | 135 dB (1 kHz at Max SPL) |
| Signal-to-noise ratio ¹ | 86 dB (1 kHz at 1 Pa, A-weighted) |
| Phantom power requirements | 11-52 V DC, 3.4 mA |
| Switches | Low cut: on/off, Pad: on/off |
| Weight | 223 g (7.9 oz) |
| Dimensions | 354.9 mm (14.0") long, 28.0 mm (1.1") maximum body diameter |
| Output connector | Integral 3-pin XLR-M type |
| Audio-Technica case style | SG6 |
| Accessories furnished | Windscreen (AT8170), holder (AT8470), stand adapter (3/8"-5/8") |

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

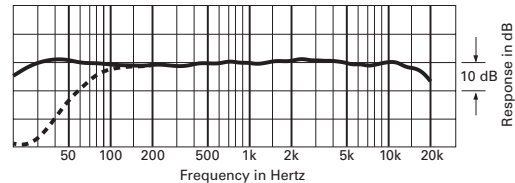
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

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

Specifications are subject to change without notice.

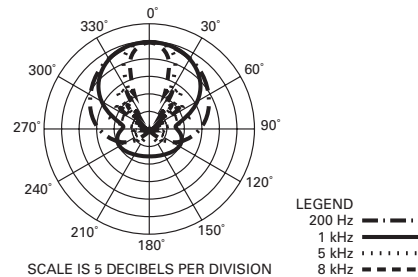


frequency response: 20–20,000 Hz



LEGEND ——— 12" or more on axis
- - - - - Roll-off

polar pattern



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