

The Guitar Mic: Miniature Condenser Guitar Microphone

DESCRIPTION

The Bartlett **Guitar Mic** is a professional quality, miniature microphone that attaches to the sound hole of an acoustic guitar for sound reinforcement. It accurately conveys the timbre of your instrument to your audience. The mic provides hi-fi sound while rejecting feedback.

The Guitar Mic mounts on the front surface of the guitar, just inside the sound hole, for excellent isolation and high volume. A Soundhole Clip is supplied for mounting. No modification of the guitar is necessary.

A microphone in the sound hole normally sounds boomy, but the Guitar Mic has reduced low-frequency response to compensate. The result is a natural, non-boomy tone.

The Guitar Mic includes a permanently attached 8-foot XLR cable. The microphone requires phantom power which most mixers and acoustic-instrument amps supply at their mic inputs.

FEATURES

- Wide, smooth frequency response provides a natural sound -- much better than a pickup
- Very good gain-before-feedback
- Soft housing will not scratch your instrument
- Compared to a stand-mounted mic, the Guitar Mic offers less clutter on stage, provides more consistent volume and tone, and allows freedom of movement. No heavy mic stands to carry!
- Mixes well with a pickup for extra volume and enhanced tone
- High sensitivity and low-impedance balanced output provide a strong, hum-free signal
- Permanently attached 8-foot cable with XLR connector
- Made in USA

SPECIFICATIONS

Type: Miniature omnidirectional condenser microphone.

Transducer: Electret condenser.

Frequency response: 80 Hz to 20 kHz. See Figure 1.

Polar pattern: Omnidirectional. See Figure 2.

Impedance: 200 ohms. Recommended load impedance >1000 ohms.

Sensitivity: 26.6 mV/Pa (-32 dBV/Pa). 1 Pa = 94 dB SPL.

Signal-to-noise ratio: > 62 dB at 94 dB SPL. Noise is inaudible in normal use.

Maximum SPL: 130 dB SPL produces 3% THD. The mic will not audibly distort in normal use.

Cable: Permanently attached 8-foot black 2-conductor shielded cable with XLR-type 3-pin connector with internal circuit.

Operating voltage: 12–48V phantom power.



Figure 1. Frequency Response

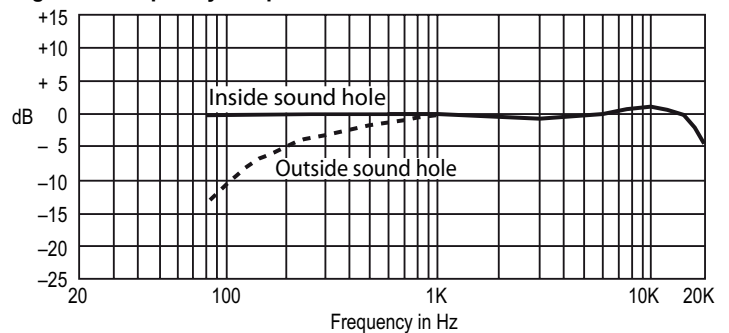
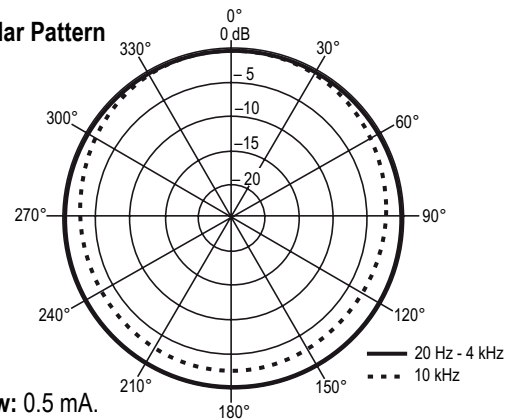


Figure 2. Polar Pattern



Current draw: 0.5 mA.

Materials: Rugged steel circuit housing.

Finish: Black.

Net weight: 2.8 oz (79 g).

Dimensions: XLR connector 2.460" long x 0.747" diameter, mic 0.540" long x 0.325" diameter.

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Bartlett Microphones

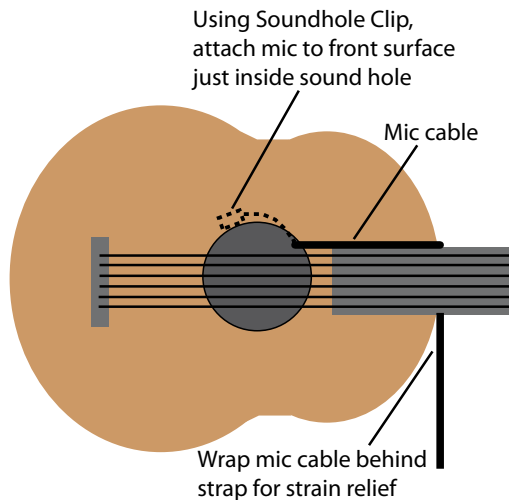
Elkhart, IN USA

www.bartlettmics.com

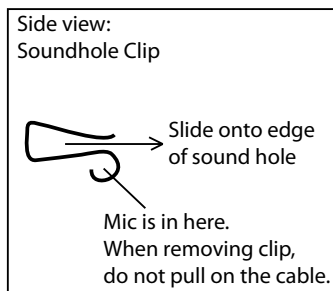
email: bruce@bartlettmics.com

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MOUNTING AND OPERATION

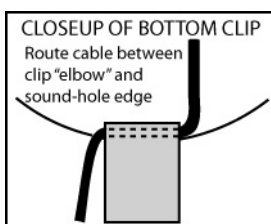
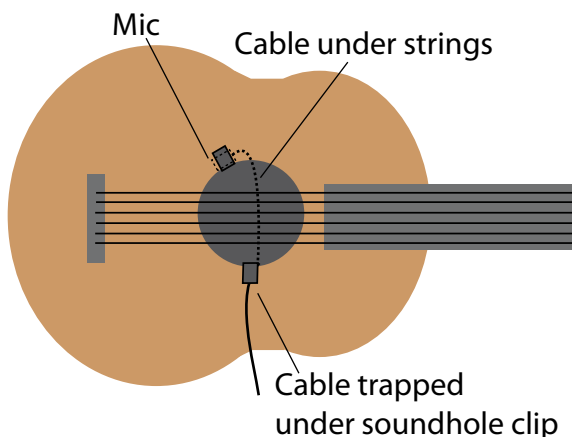


1. The mic comes already inserted in the Soundhole Clip. Slide the Soundhole Clip onto the sound hole. The Soundhole Clip is covered in rubber to prevent damage to the sound hole.



2. Route the mic cable behind the neck and around the endpin to prevent pulling the mic off the guitar.

If your guitar does not have an endpin, purchase a spare Soundhole Clip to act as a strain relief (see below).



3. Plug the mic's XLR connector into a mic cable that is connected to a mixer mic input. That input should supply phantom power.

If your mixer lacks phantom power, plug the mic's XLR connector into a mic cable that is connected to a phantom power supply. Then connect the phantom supply output to a mixer mic input.

4. Turn on phantom power before use.

5. The microphone is very sensitive or "hot". Be sure to turn down the input gain trim on your mixer as needed to prevent mixer distortion and feedback.

6. Some slight EQ can further improve the tone of the guitar. For starters, try a small cut around 250 - 600 Hz and also 2.5 kHz - 6 kHz. Depending on your particular model of guitar, you might want to turn the mixer's or amp's treble up or down slightly, turn the bass up or down slightly, or just leave it alone.

HOW TO REDUCE FEEDBACK

- Mix in the sound of a pickup. That increases the volume without increasing feedback.
- If you have a pickup, send its signal to the monitor speakers, and send the mic signal to the house speakers. Here's how: In your mixer's pickup channel, turn up the monitor send and turn down the fader. In your mixer's Guitar Mic channel, turn down the monitor send and turn up the fader.
- Use in-ear monitors.
- Using a 1/3-octave graphic equalizer, turn down frequencies that feed back.

WARRANTY

The Bartlett Guitar Mic is guaranteed not to malfunction (except in cases of abuse, such as standing on the mic) for a period of two years from the date of first purchase. Mic cables and paint finish are excluded from this warranty.

SERVICE

For tech support email bruce@bartlettmics.com.

If the microphone does not operate correctly, first check its connected cables. Repair or replace them if necessary. Make sure that phantom power is turned on and that the microphone's fader is up in the mixer.

If the microphone still fails to operate, obtain a return authorization number from us by emailing bruce@bartlettmics.com. Then return the mic in its original packaging to Bartlett Microphones. Please include proof of purchase and a note about the problem.

If the microphone's specifications change, any changes will appear in the latest data sheet available online at www.bartlettmics.com.