

Mandolin Mic: Clip-On Microphone for Mandolin

DESCRIPTION

The Bartlett Mandolin Mic is a professional quality, miniature condenser mic for amplifying or recording an f-hole mandolin or oval-hole mandolin.

Specially voiced for enhancing a mandolin's sound, the Mandolin Mic conveys the timbre of your instrument accurately to your audience. It requires 12-48V phantom power which most mixers provide

The microphone has a tiny mic capsule with a rugged cable attached to an XLR connector which houses the electronics. A supplied felt-covered Mando Clip securely attaches the mic to an f-hole.

We designed the mic based on extensive research into musical instruments and mic techniques. We measured, and listened to, the sound picked up in many locations on a variety of mandolins. In engineering the product, we incorporated suggestions from mandolin players.



Figure 1. Frequency Response

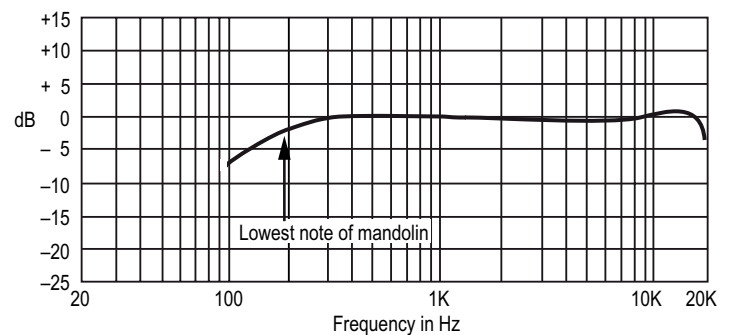
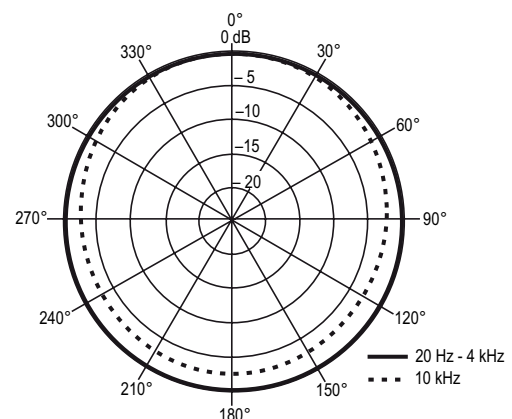


Figure 2. Polar Pattern



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

Current draw: 4.5 mA.

Materials: Rugged brass circuit housing/XLR connector.

Finish: Black mic and silver circuit housing/XLR connector.

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.

FEATURES

- Natural acoustic sound -- much better than a pickup
- Easy to attach and remove
- Less clutter on stage
- Consistent sound from gig to gig, freedom of movement
- No heavy mic stands to carry
- Permanently attached 8-foot cable with XLR connector
- Made in USA
- 2-year warranty, money-back guarantee

SPECIFICATIONS

Type: Miniature omnidirectional condenser microphone.

Transducer: Electret condenser.

Frequency response: 150 Hz to 15 kHz, covering the full range of the mandolin. See Figure 1.

Polar pattern: Omnidirectional. See Figure 2.

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

Sensitivity: 12.5 mV/Pa (-38 dBV/Pa). 1 Pa = 94 dB SPL.

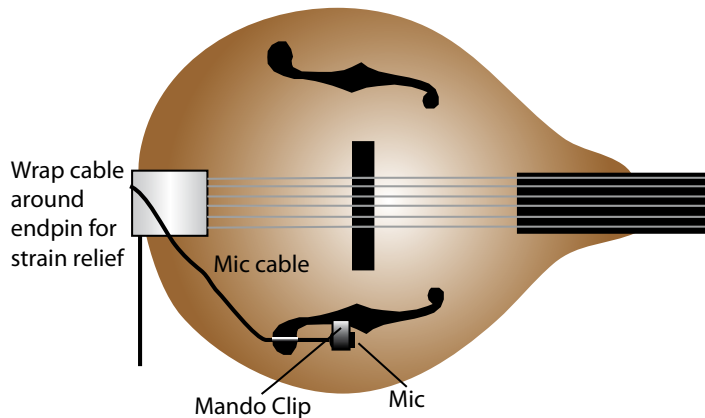
Signal-to-noise ratio: > 63 dB at 94 dB SPL. Noise is inaudible in normal use.

Maximum SPL: 134 dB SPL produces 3% THD. The mic will not audibly distort in normal use.

Operating voltage: 12-48V phantom power.

HOW TO MOUNT THE MIC ON A MANDOLIN

1. The mic comes already mounted in a Mando Clip. Insert the clip into the widest part of the lower f-hole. The mic should be outside the f-hole. If your mandolin has a sound hole, clip the mic onto the sound hole.



OPERATION

1. Option 1: Plug the mic connector into a mic cable that is connected to a mixer mic input. That input should supply phantom power.
2. Option 2: Plug the mic connector into a mic cable that is connected to a phantom power supply. Then connect the phantom supply output to a mixer mic input.
3. After the mic is plugged in, turn on phantom power.

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 Mandolin Mic channel, turn down the monitor send and turn up the fader.
- Use in-ear monitors.
- Use a 1/3-octave graphic equalizer, or a preamp with a feedback notch filter. Turn down frequencies that feed back.

SERVICE

For tech support email info@bartlettaudio.com.

If the microphone does not operate correctly, first check its cable and other 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 info@bartlettaudio.com. Then return the mic in its original packaging to Bartlett Audio. 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.bartlettaudio.com.

WARRANTY

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

Bartlett Audio

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