



# B3 OMNIDIRECTIONAL LAVALIER MICROPHONE

Our B3 is essential to any well-stocked pro audio toolkit. For starters, the B3 captures the highest-quality audio available in a lavalier mic, with field-selectable HF response caps and extremely low handling noise.

Whether you need a tie-clip lav for an interview, a hair-hidden mic for drama, a water-resistant mic for water sports or hurricane reporting, or simply a small mic to hide in a prop flower vase, you'll never run out of applications for Countryman's B3 lavalier.

And that's exactly why we made the B3 so rugged. Kevlar protects its cable from excessive weight and stretching, and the mic's protective caps are extremely resistant to water, sweat, and makeup.

You'd never expect such a mic to be so affordable, making the B3 one of the highest-value audio investments in your kit.

### Unobtrusive

Looks great when you want to see it, virtually disappears when you don't. The B3 is easily hidden in hair or on costumes. With six colors to match clothing, hair, and skin tones. Use a felt tip marker to color the white caps for near-perfect concealability. Never suffer the hassle and degraded sound quality of under-clothing miking again.

### Versatile

Changeable protective caps let you shape the frequency response for different situations or to match other microphones. Versions available for different speaking or singing styles, with up to 150 dB SPL capability.

### Rugged and Reliable

The B3 is exceptionally resistant to makeup, sweat and moisture when used with the supplied protective caps and is well-suited to use in hair or on the body. The protective caps are easily removed for cleaning or replacement when clogged with makeup. The Kevlar-reinforced cable gives it world-class survivability.

### Exceptional Sound Quality

The highest-quality audio available in a lavalier mic. Low distortion at SPL up to 150 dB on 48 V Phantom Power. The Kevlar cable and ultra-thin diaphragm combine to set a new standard for low handling noise. Excellent rejection of surrounding noise.



Supplied with carrying case, black and white cable clips, wind screen, and 3 protective caps.

**Frequency Response:** 20 Hz to 20 kHz +- 3 dB  
**Equivalent Acoustic Noise:** 24 dB(A)  
**Dimensions:** .23" x .18" (5.8 mm x 4.6 mm)  
**Weight:** .012 oz (.34 g)

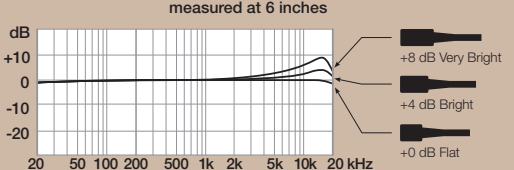
### Hardwired

**Sensitivity (2kOhm load):**  
10 mV/Pa for B3P4FF05xxx (no band, most uses)  
1 mV/Pa for B3P6FF05xxx (red band, head mic)  
**Maximum Sound Pressure:**  
150 dB (48 V, red band mic)  
**Power Requirements:**  
9 V to 48 V Phantom (4 mA @ 48 V)  
**Output Impedance:** 600 ohms, balanced  
**Output Connector:** XLR-3 Male (contains preamp)

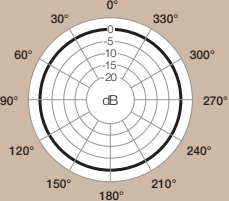
### Wireless

**Sensitivity (2kOhm load):**  
19 mV/Pa for B3W4FF05xxx (no band, most uses)  
6 mV/Pa for B3W6FF05xxx (red band, head mic)  
**Maximum Sound Pressure:**  
140 dB (5 V, red band mic)  
**Power Requirements:** 3 to 12 V @ 200 µA  
**Output Impedance:** 2kOhms  
**Output Connector:** pigtails or as specified

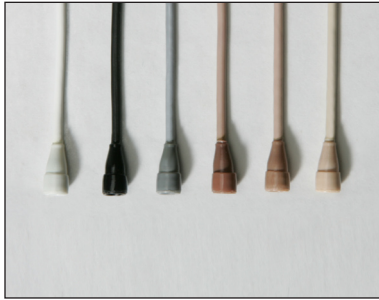
### How Caps Change Frequency Response



### 1 kHz Polar Response



# B3 Lavalier: Frequently Asked Questions



## How do I choose the right color for my skin tone?

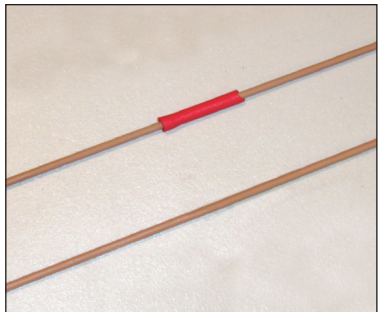
Tan is the most popular color choice, because it works perfectly for average Caucasian skin tones, as well as olive complexions. Light beige works well in theatrical applications due to its slightly pink undertone, which is also appropriate for extremely fair skin. Cocoa is the ideal choice for African American skin tones ranging from very light to chocolate, and black is appropriate for extremely dark skin, or for situations where you want the mic to be visible. When in doubt, choose the darker option. That's because a mic that's too light can resemble a scar or blemish, while a mic that's slightly darker than the background tends to blend much better and draws less attention.



## Which cap should I use?

The B3 lavalier should always be used with a protective cap in place to keep sweat, makeup and other foreign material out of the microphone. The three omni caps each have a different high frequency response characteristic that controls the amount of "crispness" or "sibilance" (response at 15 kHz).

The omni ships with the +4 dB protective cap fitted to the mic. We have found that this cap's frequency response meets the needs of the majority of users, providing a slightly increased response in the 15 kHz range. This will boost the perceived amount of "presence" in your sound, while leaving the lower frequencies unchanged. If you experience problems with high-frequency feedback, you should switch to the 0 dB cap.



## Which sensitivity should I choose?

Making a microphone more sensitive to catch soft sounds means it will overload sooner for loud sounds. Because sound pressure levels vary between individuals and applications, we provide two sensitivities with two different overload or clipping characteristics.

- The most sensitive (W4, no band) is appropriate for positioning on the chest or lapel and is a good choice for most lavalier uses
- The less sensitive version (W5, red band) is ideal for use as a hair mic in theater

## How can I mic a conference table, wall, ceiling, or stage?

The B3 makes an excellent installation mic. Refer to the diagrams below for specific applications.

