

# f50

## AFFORDABLE ALL-PURPOSE VOCAL MICROPHONE

### OVERVIEW

The f50 multipurpose vocal dynamic microphone embodies a tight and uniformly controlled cardioid polar pattern which assists in isolating the vocals from the instruments on stage. The f50 is also available with a noiseless, magnetic on/off switch (f50S).

Its warm, natural sound reproduction, resistance to feedback, and ability to handle high SPLs without distortion allows the f50 dynamic vocal microphone to be utilized in a variety of live and studio applications. The f50 cardioid microphone is an entry-level, all-purpose vocal microphone for small to midsize PA systems.

### MODEL VARIATIONS

- **f50CBL** - Same as f50 with high performance XLR-XLR low impedance microphone cable
- **f50S** - Same as f50 with On-Off switch

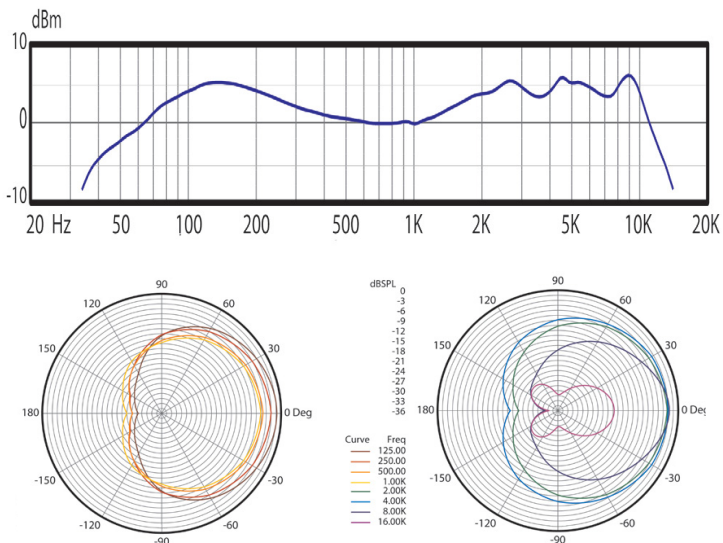
### FEATURES

- All purpose, affordable vocal mic for live sound and home studios
- Warm, natural vocal sound optimized for small to mid-size PA systems
- Cardioid pattern for feedback resistance
- Rugged all metal body, low impedance

### APPLICATIONS

- Stage, karaoke, corporate, AV, rehearsal studio, education, Houses of Worship
- Home studio - vocal and instrument
- Acoustic instruments
- Drums, guitar cabs

### FREQUENCY AND POLAR RESPONSE



### SPECIFICATIONS

<b>Transducer</b>	Dynamic
<b>Frequency Response</b>	50 Hz - 16 kHz
<b>Polar Pattern</b>	Cardioid
<b>Output Impedance</b>	250 ohms
<b>Sensitivity</b>	1.8 mV / Pa @ 1 kHz
<b>Maximum SPL</b>	>138 dB
<b>Off-Axis Rejection</b>	>20 dB
<b>Polarity</b>	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector
<b>Power Requirements</b>	None
<b>Connector</b>	3-pin XLRm
<b>Materials / Finish</b>	Zinc Alloy / Black E-coat



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# AUDIX

f50 Spec Sheet v4.1

## ARCHITECT AND ENGINEER SPECIFICATIONS

The microphone shall be of the dynamic type operating on the moving coil principle and the polar pattern of the microphone shall be cardioid. The nominal output impedance shall be equal to 250 ohms at 1 kHz. The microphone shall have a sensitivity of 1.8 mV / Pa at 1 kHz and a sound pressure level  $\geq 138$  dB. The microphone body shall be die cast zinc alloy and the grill shall be steel mesh. The overall dimensions shall be 23.5 mm in diameter at the base, 53.5 mm at the widest point on the grill, and 169 mm in length.

## OPERATION AND MAINTENANCE

The f50 is a low impedance microphone and should be plugged into a “mic level” input on the console, mixer or recording device. Please note that the microphone does not require phantom power, however, the microphone will not be affected in any way by phantom power should it be running simultaneously when the microphone is in operation. Avoid plugging or unplugging the microphone from a PA system unless the channel is muted or the volume of the system is turned down. Failure to do so may result in a loud “popping” noise which could seriously damage the speakers in the PA system.

The f50 is manufactured to exacting specs with road worthy construction. However, the capsule is highly sensitive and should be handled with care. Avoid extreme temperatures and be sure to store your microphone in the pouch provided when not in use. Moisture of any kind can adversely effect the sound and performance of your microphone.

## USER TIPS

The f50 has a unidirectional (cardioid) pick-up pattern in order to help eliminate sound from other instruments on stage from “bleeding” into the microphone. Operating distance for vocal application can vary between 2-6 inches depending on how many other instruments are on stage, the volume of the music and the type of monitors being used. When using floor monitors, position the microphone so that it is parallel to the floor. When using multiple microphones on a live performance stage, allow a distance of 2-3 feet between mics to avoid phase issues.

Further miking techniques may be found at [www.audixusa.com](http://www.audixusa.com).

## SUPPLIED ACCESSORIES

- Mic Clip
- Carrying Pouch

## OPTIONAL ACCESSORIES

- **CBLDR25** - 25' premium right angle XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for maximum conductivity. 6 mm PVC jacketed.
- **CBL20** - 20' premium XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for maximum conductivity. 6 mm PVC jacketed.
- **TRIPOD** - Metal tripod desktop stand for use with any 5/8" threaded mic clip.
- **T50K** - Professional impedance matching transformer that allows a low impedance mic to be connected to a high impedance input.
- **WS357** - Optional high quality external foam windscreen for reducing wind, sibilance, and pop noise.

## DIMENSIONS



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