

AUDIX F50S

Audix F50S Dynamic Microphone Instruction Manual

Model: F50S

1. PRODUCT OVERVIEW

The Audix F50S is an all-purpose dynamic vocal microphone featuring an on-off switch, designed for a variety of live and home studio applications. It delivers a clear and full sound, optimized for small to mid-size PA systems, and is engineered for feedback resistance while handling high sound pressure levels without distortion. The microphone is characterized by a tight and uniformly controlled cardioid polar pattern, which helps isolate vocals from other instruments on stage. With a wide frequency range of 50 Hz - 16 kHz, the F50S is well-balanced, comfortable to hold, and built for durability.

Key Features

- All-purpose dynamic vocal microphone with on-off switch for live sound and home studio use.
- Warm, natural vocal sound optimized for small to mid-size PA systems.
- Cardioid polar pattern for enhanced feedback resistance.
- Ergonomically designed for comfortable handling and balance.
- Durable zinc alloy body with a robust steel grill.



The Audix F50S microphone comes with a durable microphone clip for stand mounting and a protective carrying pouch for transport and storage.

2. PACKAGE CONTENTS

Upon opening your Audix F50S Dynamic Microphone package, please ensure all the following items are present:

- Audix F50S Dynamic Microphone, Cardioid
- Microphone Clip
- Protective Carrying Pouch

3. SETUP AND CONNECTION

The Audix F50S microphone utilizes an XLR connector for audio output. Follow these steps to connect your microphone:

1. **Connect the Microphone Cable:** Insert one end of a standard XLR microphone cable (not included) into the XLR output port at the base of the F50S microphone. Ensure a secure connection.
2. **Connect to Audio Interface/Mixer:** Connect the other end of the XLR cable to an available XLR input on your audio interface, mixer, or amplifier. For optimal performance and sufficient gain, it is recommended to use a device with a dedicated microphone preamplifier.
3. **Power On:** If your audio interface or mixer requires it, ensure phantom power is **not** activated for this dynamic microphone, as it does not require external power.

4. **Adjust Gain:** Begin with the gain (input level) on your audio interface or mixer set to a low level. Gradually increase the gain while speaking or singing into the microphone until you achieve a clear and strong signal without distortion.

The F50S can be connected to various compatible devices such as personal computers, laptops, tablets, and speakers, typically requiring an appropriate XLR to USB or XLR to 3.5mm adapter (not included) and potentially an amplifier for sufficient volume, depending on the device.

4. OPERATION

Operating the Audix F50S is straightforward. This section covers basic usage and best practices.

On-Off Switch

- The F50S features a convenient on-off switch located on the microphone body.
- Slide the switch to the 'ON' position to activate the microphone.
- Slide the switch to the 'OFF' position to mute or deactivate the microphone when not in use, preventing unwanted noise or feedback.

Cardioid Polar Pattern

The F50S has a cardioid polar pattern, meaning it is most sensitive to sound coming from the front and rejects sound from the sides and rear. This characteristic is beneficial for:

- **Vocal Isolation:** Focuses on the primary sound source (e.g., a vocalist) and minimizes pickup of other instruments or ambient stage noise.
- **Feedback Reduction:** Helps prevent feedback in live sound environments by reducing the pickup of sound from loudspeakers.

For best results, position the microphone directly in front of the sound source you wish to capture, typically within a few inches for vocals.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Audix F50S microphone.

- **Cleaning:** Gently wipe the microphone body with a soft, dry cloth. For the grille, use a soft brush to remove any debris. Avoid using liquid cleaners directly on the microphone, as moisture can damage internal components.
- **Storage:** When not in use, store the microphone in its protective carrying pouch to shield it from dust, moisture, and physical damage.
- **Handling:** Avoid dropping the microphone or subjecting it to harsh impacts, as this can affect its internal components and sound quality.
- **Environmental Conditions:** Keep the microphone away from extreme temperatures, high humidity, and direct sunlight.

6. TROUBLESHOOTING

If you encounter issues with your Audix F50S microphone, refer to the following common problems and solutions:

Low or No Sound Output

- **Check Connections:** Ensure the XLR cable is securely connected to both the microphone and the audio input device.
- **On-Off Switch:** Verify that the microphone's on-off switch is in the 'ON' position.
- **Gain Levels:** Confirm that the gain (input level) on your mixer or audio interface is adequately adjusted. Dynamic microphones often require more gain than condenser microphones.
- **Amplification:** If connecting directly to a computer or device without a dedicated microphone preamplifier, the output level may be low. An external amplifier or audio interface with a preamp is often necessary for optimal volume and clarity.
- **Cable Integrity:** Test with a different XLR cable to rule out a faulty cable.

Distorted Sound

- **Gain Too High:** Reduce the gain level on your mixer or audio interface. Overdriving the input can cause distortion.
- **Proximity:** Ensure you are not too close to the microphone, especially for loud sound sources, as this can cause proximity effect and distortion. Maintain an appropriate distance.
- **Input Overload:** Check if the input on your audio device is clipping (indicated by a red light). Adjust levels accordingly.

Feedback (Howling Sound)

- **Microphone Position:** Reposition the microphone further away from loudspeakers or monitors.
- **Speaker Orientation:** Ensure speakers are not pointed directly at the microphone.
- **Gain Reduction:** Lower the overall volume or the microphone's gain.
- **Equalization:** Use an equalizer to cut frequencies that are causing feedback.

If these steps do not resolve the issue, contact Audix customer support for further assistance.

7. SPECIFICATIONS

Below are the detailed technical specifications for the Audix F50S Dynamic Microphone:

Specification	Value
Transducer Type	Dynamic
Polar Pattern	Cardioid (Unidirectional)
Frequency Response	50 Hz - 16 kHz
Output Impedance	250 ohms
Sensitivity	2.5 mV/Pascal @ 1kHz
Off-Axis Rejection	> 20 dB
Maximum SPL	> 138 dB
Microphone Form Factor	Handheld
Connectivity Technology	XLR

Specification	Value
Material	Zinc
Item Weight	0.46 Kilograms (1.01 pounds)
Product Dimensions (L x W x H)	7 x 2 x 2 inches (169mm x 53.5mm x 23.5mm)
Color	Black
Power Source	Corded Electric (via XLR connection to audio device)
Recommended Uses	Singing, Speech, Karaoke, Video Conference, Live Performance



Detailed dimensions of the Audix F50S microphone, showing a length of 169mm (approximately 7 inches) and a maximum diameter of 53.5mm (approximately 2 inches) at the grille.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Audix F50S Dynamic Microphone, please contact the manufacturer directly.

- **Manufacturer:** Audix
- **Online Support:** Visit the official [AUDIX Store on Amazon](#) for product information and potential support resources.

Please retain your proof of purchase for any warranty claims.