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Large-diaphragm FET Condenser Microphone

INTRODUCTION

Thank you for choosing the Lauten Audio Snare Mic. This large-diaphragm FET condenser microphone is specifically engineered to capture the nuanced sound of snare drums with exceptional clarity and detail. Designed for durability and precise sound shaping, this manual provides essential information for setup, operation, and maintenance to ensure optimal performance.





Image: The Lauten Audio Snare Mic, a black large-diaphragm condenser microphone with a mesh grille and the Lauten Audio logo, along with filter switches, visible on its body.

KEY FEATURES

- **FET Condenser Design:** Delivers a rich, detailed sound profile ideal for snare drums.
- **Cardioid Polar Pattern:** Provides excellent off-axis rejection, minimizing bleed from other instruments.
- **High SPL Handling:** Capable of handling sound pressure levels exceeding 135dB, suitable for loud drum performances.
- **Wide Frequency Response:** Captures frequencies from 20Hz to 20kHz for comprehensive sound reproduction.
- **Integrated Sound Shaping Filters:** Features three high-cut and three low-cut filters for precise tonal adjustments directly on the microphone.
- **Durable Construction:** Solid brass headframe and mildew-resistant dust filter protect against physical impact and environmental factors.

- **Compact Size:** At 4.2 inches, its diminutive size allows for easy placement in tight drum setups.

SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove the Snare Mic from its packaging. Verify that all included components (microphone) are present.
2. **Mounting:** Secure the microphone onto a suitable microphone stand using a standard mic clip (not included). Ensure the microphone is positioned stably.
3. **Placement:** Position the Snare Mic approximately 1-3 inches from the snare drum head, aiming towards the center for a balanced sound, or towards the rim for more attack. Experiment with angles to achieve the desired tone.
4. **Connecting to Audio Interface:** Connect the Snare Mic to an audio interface or mixer using a high-quality XLR cable. The microphone requires 48V phantom power, which must be enabled on your audio interface or mixer.
5. **Powering On:** Once connected, activate the 48V phantom power on your audio interface or mixer. The microphone does not have an external power switch.





Image: Close-up of the Lauten Audio Snare Mic showing the high-pass (HP) and low-pass (LP) filter switches. The HP filters are labeled 140Hz and 80Hz, and the LP filters are labeled 5KHz and 12KHz.

OPERATING INSTRUCTIONS

Filter Controls

The Snare Mic features integrated high-pass (HP) and low-pass (LP) filters to shape the microphone's frequency response directly at the source. These filters are engaged via small switches on the microphone body.

- **High-Pass Filters (HP):**
 - **80Hz HP:** Reduces low-end rumble and proximity effect.
 - **140Hz HP:** Provides a more aggressive low-frequency cut, useful for tightening the snare sound and reducing bass resonance.
- **Low-Pass Filters (LP):**
 - **12KHz LP:** Gently rolls off high frequencies, which can help tame harshness or cymbal bleed.
 - **5KHz LP:** Offers a more pronounced high-frequency cut, useful for creating a darker, more vintage snare tone or reducing excessive brightness.

Experiment with different filter combinations to find the optimal sound for your snare drum and musical context. It is recommended to listen to the changes in a controlled environment.

MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to wipe the microphone body. Do not use liquid cleaners or solvents, as they may damage the finish or internal components.
- **Storage:** When not in use, store the microphone in a protective case to prevent dust accumulation and physical damage.
- **Protection:** The microphone features a solid brass headframe and mildew-resistant dust filter. While robust, avoid direct impacts and excessive moisture.
- **Environmental Conditions:** Operate and store the microphone in a moderate temperature and humidity environment. Avoid extreme temperatures or sudden changes.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	No phantom power (48V) Faulty XLR cable Incorrect input selection on audio interface/mixer	Ensure 48V phantom power is enabled. Test with a different XLR cable. Verify the correct input channel is selected and monitored.
Low or distorted sound	Input gain too low/high Damaged microphone capsule	Adjust input gain on your audio interface/mixer. Contact Lauten Audio support if distortion persists at normal levels.
Excessive background noise/hum	Ground loop issue Interference from other electronics Faulty cable shielding	Ensure all equipment is properly grounded. Move microphone and cables away from power sources or electronic devices. Try a different, shielded XLR cable.

TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	LS408002
Microphone Type	Large-diaphragm FET Condenser
Polar Pattern	Cardioid (Unidirectional)
Frequency Response	20Hz - 20kHz
Max SPL	135dB+
Off-Axis Rejection	-28dB
Signal-to-Noise Ratio	70 dB
Filters	3 High-Cut, 3 Low-Cut (e.g., HP 80Hz, 140Hz; LP 5KHz, 12KHz)
Connectivity	XLR
Power Requirement	48V Phantom Power
Dimensions (L x W x H)	4.41 x 1.97 x 1.97 inches (11.2 x 5 x 5 cm)

Feature	Detail
Weight	14.9 ounces (422 grams)
Included Components	Lauten Audio Snare Mic

WARRANTY INFORMATION

Lauten Audio products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Lauten Audio website. Keep your purchase receipt as proof of purchase for any warranty claims.

SUPPORT AND CONTACT

Should you encounter any issues or have questions regarding your Lauten Audio Snare Mic, please contact Lauten Audio customer support.

- **Online Support:** Visit the official Lauten Audio website for FAQs, product registration, and support resources.
- **Contact Information:** Refer to the contact section on the Lauten Audio website for email and phone support details.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question