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Shure SM58-LC

Shure SM58 Pro XLR Dynamic Microphone User Manual

Brand: Shure
Model: SM58-LC

1. INTRODUCTION AND OVERVIEW

The Shure SM58-LC is a professional cardioid dynamic vocal microphone designed for exceptional vocal reproduction in both studio and live performance environments. Renowned for its rugged reliability and clear sound, it has become an industry standard for vocalists, podcasters, and recording artists worldwide.



Figure 1: Shure SM58-LC Dynamic Microphone

2. KEY FEATURES

- **Exceptional Vocal Performance:** Tailored frequency response with brightened midrange for clear and present vocals.
- **Industry Standard:** A top choice for performers globally, known for bringing performances to life in various settings.

- **Clarity & Care:** Uniform cardioid polar pattern reproduces every note as intended, delivering warm, crisp sound.
- **Background Noise Rejection:** Spherical mesh grille and built-in pop filter minimize unwanted noise.
- **Durable Construction:** Built to withstand rigorous use with a break-resistant stand adapter.
- **Versatile Use:** Suitable for both live stage performances and studio recording, effectively isolating vocals from instruments.

3. WHAT'S IN THE BOX

Your Shure SM58-LC package includes the following components:

- Shure SM58 Cardioid Dynamic Vocal Microphone
- 1 - A25D Swivel Stand Adapter
- 1 - 95A2313 Storage Bag



Figure 2: Package Contents

4. SETUP

Setting up your Shure SM58-LC is straightforward. Follow these steps to get started:

1. **Connect to Audio Interface:** The SM58-LC uses an XLR connector. Connect one end of an XLR cable (not included with this specific model) to the microphone's XLR output.



Figure 3: XLR Connection Point

2. **Connect to Mixer/Preamp:** Connect the other end of the XLR cable to an input on your audio interface, mixer, or preamp. Ensure the input is compatible with dynamic microphones. Phantom power is not required for the SM58-LC as it is a dynamic microphone.
3. **Mounting:** Attach the provided A25D swivel stand adapter to a microphone stand. Securely insert the SM58-LC microphone into the adapter.
4. **Positioning:** Position the microphone appropriately for your intended use. For vocals, typically hold or position the microphone 1-6 inches from the sound source.

5. OPERATING INSTRUCTIONS

The Shure SM58-LC is designed for optimal performance with minimal fuss. Here are some tips for effective operation:

- **Microphone Technique:** For best vocal clarity, speak or sing directly into the top of the microphone, maintaining a

consistent distance. The cardioid pickup pattern is most sensitive to sound coming from the front, helping to reject off-axis noise.



Figure 4: Proper Vocal Technique

- **Gain Staging:** Adjust the gain on your audio interface or mixer to achieve a strong signal without clipping. The SM58-LC is a dynamic microphone and may require more gain compared to condenser microphones.
- **Pop Filter:** The built-in spherical mesh grille acts as an effective pop filter, reducing plosive sounds (like 'p' and 'b') and wind noise.
- **Live Performance:** Its robust construction and excellent feedback rejection make it ideal for live stage use.



Figure 5: SM58 in a Live Setting

- **Studio Recording:** While primarily known for live use, the SM58-LC can also deliver excellent results in the studio, especially for vocals and certain instruments, due to its ability to isolate sound sources.

6. SPECIFICATIONS

Specification	Value
Item Weight	310 Grams (10.9 ounces)
Maximum Frequency	15 KHz
Microphone Form Factor	Handheld

Specification	Value
Minimum Frequency	50 Hz
Item dimensions L x W x H	10.31 x 4.92 x 3.31 inches
Power Source	Corded Electric
Material	Metal
Signal-to-Noise Ratio	78 dB
Number of Channels	1
Frequency Range	50 Hz - 15 KHz
Connectivity Technology	XLR
Polar Pattern	Unidirectional (Cardioid)

7. MAINTENANCE

The Shure SM58-LC is built for durability, but proper maintenance will ensure its longevity and optimal performance:

- **Cleaning the Grille:** Periodically unscrew the spherical mesh grille and gently clean it with a soft, dry cloth to remove any debris or moisture. Avoid using harsh chemicals.



Figure 6: Microphone Grille

- **Handling:** While robust, avoid dropping the microphone or subjecting it to excessive force. The durable metal construction is designed to withstand typical stage use, but extreme impacts can cause damage.



Figure 7: Durable Construction

- **Storage:** When not in use, store the microphone in its provided storage bag to protect it from dust, moisture, and physical damage.

8. TROUBLESHOOTING

If you encounter issues with your Shure SM58-LC, try the following troubleshooting steps:

Problem	Possible Cause & Solution
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Problem	Possible Cause & Solution
No Sound Output	◦ Check all XLR cable connections. ◦ Ensure the audio interface/mixer input gain is turned up. ◦ Verify the input channel on your mixer/interface is unmuted and routed correctly. ◦ Test with a different XLR cable or input channel.
Low Volume/Weak Signal	◦ Increase the gain on your audio interface/mixer. ◦ Ensure you are speaking/singing directly into the microphone's grille. ◦ Check if any pads or attenuators are engaged on your input device.
Distorted Sound	◦ Reduce the input gain on your audio interface/mixer to prevent clipping. ◦ Ensure the microphone is not too close to the sound source if the source is very loud.
Excessive Background Noise/Feedback	◦ Ensure the microphone is pointed directly at the sound source and away from speakers. ◦ Reduce overall system volume or monitor levels. ◦ Check for proper microphone technique to utilize the cardioid pattern effectively.

9. WARRANTY AND SUPPORT

For detailed warranty information and support, please refer to the official documents provided by Shure.

- **Warranty Information:** For specific warranty terms and conditions, please consult the [Official Warranty Document \(PDF\)](#).
- **User Guides:** Additional user guides and instructions are available:
 - [Instructions for Use \(IFU\) \(PDF\)](#)
 - [User Guide \(PDF\)](#)
 - [User Manual \(PDF\)](#)
- **Authorized Dealers:** To ensure your product is covered by warranty, it is crucial to purchase from an authorized Shure dealer. Purchases from non-authorized dealers may void the warranty.

10. IMPORTANT SAFETY INFORMATION

Legal Disclaimer: Authorized SHURE Dealer. If you do not buy from a SHURE dealer there is no warranty in place for you. DO NOT BE FOOLED.

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