

TELEFUNKEN M80 SH

TELEFUNKEN M80-SH Low-Profile Dynamic Microphone User Manual

Model: M80 SH

1. INTRODUCTION

The TELEFUNKEN M80-SH is a low-profile dynamic microphone designed for professional audio applications. Its compact form factor makes it suitable for use in tight spaces, such as on drum kits, guitar amplifiers, or for vocalists who require a less obtrusive microphone. The M80-SH delivers a clear, natural sound with a subtle high-frequency lift, characteristic of condenser microphones, while maintaining the robust performance of a dynamic microphone. Its supercardioid polar pattern provides excellent off-axis rejection, minimizing unwanted background noise and feedback.



The TELEFUNKEN M80-SH microphone features a durable black finish and a robust grille, designed for professional audio capture.

2. SAFETY INFORMATION

- Do not expose the microphone to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping the microphone or subjecting it to severe impacts.
- Ensure all cable connections are secure before use to prevent signal loss or damage.
- Keep the microphone away from strong magnetic fields.
- Do not attempt to disassemble or modify the microphone. Refer servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items are present in your TELEFUNKEN M80-SH package:



The M80-SH package includes the microphone, a microphone clip for stand mounting, and an XLR cable for immediate connectivity.

- TELEFUNKEN M80-SH Dynamic Microphone
- Microphone Clip
- XLR Cable
- Protective Pouch (if included with specific model variant)

4. SETUP

4.1 Connecting the Microphone

1. Connect one end of the provided XLR cable to the XLR output connector at the base of the M80-SH microphone.
2. Connect the other end of the XLR cable to an available microphone input on your audio mixer, audio interface, or preamplifier.
3. Ensure the input gain on your connected device is set to a low level before increasing it to prevent sudden loud signals.

4.2 Mounting the Microphone

1. Attach the included microphone clip to a standard microphone stand.
2. Carefully insert the base of the M80-SH microphone into the microphone clip, ensuring it is securely

held.

3. Adjust the microphone stand and clip to achieve the desired position for your audio source.

5. OPERATION

5.1 Basic Usage

- **Gain Staging:** Start with the input gain on your mixer or interface at its lowest setting. Gradually increase the gain until you achieve a strong, clear signal without clipping or distortion.
- **Polar Pattern:** The M80-SH features a supercardioid polar pattern, which is highly directional. Position the microphone directly towards the sound source you wish to capture, and away from unwanted sounds. This pattern helps to reject sounds from the sides and rear.
- **Proximity Effect:** Like most directional microphones, the M80-SH exhibits a proximity effect, where bass frequencies increase as the microphone is moved closer to the sound source. Use this to your advantage for vocal warmth or adjust distance to control bass response.

5.2 Optimal Placement

- **Drums:** Its low-profile design is excellent for drum miking, allowing for precise placement on snare drums, toms, or even as an overhead where space is limited.
- **Guitar Amplifiers:** Position the microphone a few inches from the speaker cone, experimenting with placement between the cone's center and edge to find the desired tonal balance.
- **Vocals:** For vocalists, especially those who play instruments like drums or keyboards, the M80-SH's compact size allows for unobtrusive placement while maintaining vocal clarity.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe the microphone body. For the grille, a soft brush can be used to gently remove dust or debris. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the microphone in its protective pouch or a suitable case to shield it from dust, moisture, and physical damage.
- **Cable Care:** Always coil XLR cables properly to prevent kinks and damage to the internal wiring. Avoid pulling cables by the connector.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Loose or faulty XLR cable connection	Check and secure all XLR connections. Try a different XLR cable.
No sound output	Input gain too low on mixer/interface	Increase the input gain gradually.
Distorted sound	Input gain too high	Reduce the input gain on your mixer/interface.

Problem	Possible Cause	Solution
Distorted sound	Microphone too close to sound source (proximity effect)	Increase the distance between the microphone and the sound source.
Feedback (howling sound)	Microphone pointed towards speakers or monitors	Reposition the microphone to avoid pointing at sound reinforcement speakers. Reduce monitor volume.

8. SPECIFICATIONS

Feature	Specification
Model Name	M80 SH
Brand	TELEFUNKEN
Manufacturer	Telefunken Elektroakustik
Microphone Type	Dynamic
Polar Pattern	Supercardioid
Connectivity Technology	XLR
Connector Type	XLR
Frequency Response	16000 Hz (as provided)
Signal-to-Noise Ratio	76 dB
Material	Metal, Plastic
Item Weight	2.53 pounds
Product Dimensions (L x W x H)	11 x 8 x 5 inches
Power Source	Corded Electric

9. WARRANTY AND SUPPORT

For specific warranty information regarding your TELEFUNKEN M80-SH microphone, please refer to the documentation included with your purchase or visit the official TELEFUNKEN Elektroakustik website. Warranty terms and conditions may vary by region and retailer.

For technical support, service, or additional product information, please contact TELEFUNKEN Elektroakustik directly through their official support channels. Always provide your product model number (M80 SH) and purchase details when seeking support.

Online Resources: For the most up-to-date information, FAQs, and support, please visit the official TELEFUNKEN Elektroakustik website.

