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› TELEFUNKEN Elektroakustik M80 Dynamic Microphone User Manual

TELEFUNKEN SYTM-019-GRN

TELEFUNKEN Elektroakustik M80 Dynamic Microphone User Manual

Model: SYTM-019-GRN

INTRODUCTION

The TELEFUNKEN Elektroakustik M80 is a dynamic microphone designed for high-quality live performance and studio recording. It features a low-mass capsule and ultra-thin membrane to capture detailed audio. This manual provides essential information for the setup, operation, and maintenance of your M80 microphone.

KEY FEATURES

- Condenser-like high frequency extension for clear sound in dense mixes.
- Detailed sound with high Sound Pressure Level (SPL) handling, suitable for both studio and stage environments.
- Supercardioid polar pattern for excellent feedback rejection.
- Designed and hand-assembled in the USA.
- Recommended for lead vocals, snare drum, and brass instruments.

PACKAGE CONTENTS

Your TELEFUNKEN M80 microphone package includes:

- TELEFUNKEN M80 Dynamic Microphone
- Microphone Clip
- Protective Pouch



Image: The TELEFUNKEN M80 Green Dynamic Microphone, its black microphone clip, and a black protective leatherette pouch. The microphone is green with a matching green grille, featuring the TELEFUNKEN Elektroakustik logo on the body.

SETUP

1. **Attach Microphone Clip:** Securely fasten the provided microphone clip to a standard microphone stand.
2. **Mount Microphone:** Carefully insert the TELEFUNKEN M80 microphone into the microphone clip. Ensure it is firmly seated to prevent accidental drops.
3. **Connect XLR Cable:** Connect a balanced XLR cable (not included) to the XLR output at the base of the microphone. Connect the other end of the XLR cable to your mixer, audio interface, or preamplifier.
4. **Phantom Power:** The M80 is a dynamic microphone and does not require phantom power. Ensure phantom power is OFF on the input channel you are using, especially if connecting to equipment that provides it, to avoid potential issues with other connected devices.

OPERATING THE MICROPHONE

The M80 is designed for versatility and high performance. Follow these guidelines for optimal use:

- **Placement:** For vocals, position the microphone 1-6 inches from the sound source. Experiment with distance to achieve the desired proximity effect and tonal balance.
- **Polar Pattern:** The M80 features a supercardioid polar pattern, which is highly directional. Point the microphone directly at the sound source and aim to minimize sound from the sides and rear to reduce feedback and unwanted ambient noise.
- **Gain Staging:** Adjust the gain on your mixer or preamplifier to achieve a strong signal without clipping. The M80 has high SPL handling, allowing it to capture loud sources without distortion.
- **Applications:**
 - **Vocals:** Excellent for lead and backing vocals due to its clear, condenser-like high-frequency response.
 - **Instruments:** Suitable for close-miking snare drums, brass instruments, and guitar cabinets.

MAINTENANCE

Proper care will ensure the longevity and performance of your M80 microphone:

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

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Sound Output	XLR cable not connected properly. Input gain too low on mixer/interface. Faulty XLR cable. Mute engaged on mixer/interface.	Check all cable connections. Increase input gain gradually. Try a different XLR cable. Ensure input channel is not muted.
Feedback (High-pitched squeal)	Microphone too close to speakers. Microphone pointed at speakers. Excessive gain.	Reposition microphone further from speakers. Ensure microphone is not pointed at monitors/speakers. Reduce input gain or master volume.
Distorted Sound	Input gain too high. Microphone too close to a very loud source.	Reduce input gain. Increase distance between microphone and sound source.

SPECIFICATIONS

Feature	Detail
Model Number	SYTM-019-GRN
Item Weight	15.2 ounces
Product Dimensions	7.24 x 1.89 x 1.89 inches
Color	Green body with Green Grille
Connector Type	XLR
Polar Pattern	Supercardioid
Microphone Type	Dynamic

SUPPORT

For further assistance, product registration, or to explore other TELEFUNKEN Elektroakustik products, please visit the official brand store:

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