

## TELEFUNKEN SYTM-050-RED

# TELEFUNKEN Elektroakustik M81 Red Dynamic Microphone User Manual

Model: SYTM-050-RED | Brand: TELEFUNKEN

## 1. INTRODUCTION

The TELEFUNKEN Elektroakustik M81 Red Dynamic Microphone is a versatile and robust audio tool designed for a wide range of applications, both in the studio and on stage. It delivers a condenser-like response with minimal proximity effect and superior feedback rejection, making it suitable for various sound sources.

Its smooth frequency response, clarity, and rich body make it an excellent choice for taming brighter vocals, shaping guitar tones, and adding depth to instruments like toms and horns. The M81 features a low-mass diaphragm and a custom-wound impedance matching transformer, ensuring intelligent design and reliable performance.

Key features include:

- Detailed, condenser-like performance in a rugged dynamic design.
- Smooth frequency response with a clear, defined midrange.
- Supercardioid polar pattern provides excellent off-axis rejection.
- Designed and hand assembled in the USA.
- Recommended for Vocals, Toms, Guitar Amps, Saxophone.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before using the TELEFUNKEN M81 microphone. Retain this manual for future reference.

- Do not expose the microphone to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the microphone to severe impacts.
- Do not attempt to disassemble or modify the microphone. This will void the warranty.
- Ensure proper ventilation when using the microphone in enclosed spaces.
- Always disconnect the microphone from power sources before cleaning or maintenance.
- Use only approved accessories and cables.

## 3. PACKAGE CONTENTS

Upon opening your TELEFUNKEN M81 Red Dynamic Microphone package, please verify that all the following items are included:

- TELEFUNKEN M81 Red Dynamic Microphone
- Microphone Clip
- Zip Pouch



Image: The TELEFUNKEN M81 Red Dynamic Microphone shown alongside its included microphone clip and protective zip pouch.

## 4. SETUP

Follow these steps to set up your TELEFUNKEN M81 microphone:

1. **Attach Microphone Clip:** Securely screw the included microphone clip onto a standard microphone stand.
2. **Insert Microphone:** Gently insert the base of the M81 microphone into the microphone clip. Ensure it is firmly seated but do not force it.
3. **Connect XLR Cable:** Connect a standard XLR (3-pin) microphone cable to the XLR output at the bottom of the M81 microphone. The M81 uses a balanced XLR connection.
4. **Connect to Audio Interface/Mixer:** Connect the other end of the XLR cable to an available microphone input on your audio interface, mixing console, or preamplifier. Ensure the input is set to accept a dynamic microphone signal (phantom power is not required and should be off for dynamic microphones).
5. **Positioning:** Position the microphone appropriately for your sound source. The supercardioid polar pattern is most sensitive directly in front of the microphone, rejecting sounds from the sides and rear.





Image: A close-up view of the TELEFUNKEN M81 Red Dynamic Microphone, highlighting its red finish and grille.

## 5. OPERATING

The TELEFUNKEN M81 is designed for ease of use and high performance. Here are some guidelines for optimal operation:

- **Gain Staging:** Adjust the gain on your audio interface or mixer to achieve a healthy signal level without clipping. Start with the gain low and gradually increase it while monitoring your audio.
- **Proximity Effect:** The M81 is designed to minimize proximity effect (an increase in bass response as the microphone gets closer to the sound source). However, you can still use subtle changes in distance to fine-tune the low-end response for vocals or instruments.
- **Feedback Rejection:** Due to its supercardioid polar pattern, the M81 offers excellent rejection of off-axis sounds. This is particularly useful in live sound environments to reduce feedback. Position monitors and other sound sources outside the microphone's pickup pattern.
- **Applications:**
  - **Vocals:** Position the microphone 2-6 inches from the vocalist's mouth. Experiment with angle and distance to achieve the desired tone.
  - **Guitar Amps:** Place the microphone 1-12 inches from the speaker cone, experimenting with placement between the cone and the edge for different tonal characteristics.
  - **Drums (Toms):** Position the microphone a few inches above the drum head, angled towards the center.
  - **Horns/Saxophone:** Aim the microphone at the bell or keys, depending on the desired blend of sound.

## 6. MAINTENANCE

Proper care will ensure the longevity and performance of your TELEFUNKEN M81 microphone:

- **Cleaning:** Use a soft, dry cloth to wipe down the microphone body. For the grille, a soft brush can be used to remove dust or debris. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the microphone in its included zip pouch to protect it from dust, moisture, and physical damage. Avoid storing in extreme temperatures.
- **Handling:** Always handle the microphone by its body, not by the cable. Avoid dropping or subjecting it to harsh impacts.

## 7. TROUBLESHOOTING

If you encounter issues with your M81 microphone, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|         |                |          |

| Problem                  | Possible Cause  | Solution   |
|--------------------------|---|--|
| No Sound Output          | <ul style="list-style-type: none"> <li>• Cable not connected properly.</li> <li>• Incorrect input selected on mixer/interface.</li> <li>• Gain too low.</li> <li>• Faulty cable.</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure XLR cable is fully seated at both ends.</li> <li>• Verify the correct input channel is selected and unmuted.</li> <li>• Increase gain gradually.</li> <li>• Try a different XLR cable.</li> </ul>  |
| Low Volume / Weak Signal | <ul style="list-style-type: none"> <li>• Gain set too low.</li> <li>• Microphone too far from sound source.</li> </ul>  | <ul style="list-style-type: none"> <li>• Increase input gain on your mixer/interface.</li> <li>• Move the microphone closer to the sound source.</li> </ul>  |
| Distorted Sound          | <ul style="list-style-type: none"> <li>• Gain set too high (clipping).</li> <li>• Faulty cable.</li> </ul>  | <ul style="list-style-type: none"> <li>• Reduce input gain.</li> <li>• Try a different XLR cable.</li> </ul>   |
| Hum or Buzz              | <ul style="list-style-type: none"> <li>• Ground loop.</li> <li>• Interference from other electronics.</li> <li>• Faulty cable.</li> </ul>   | <ul style="list-style-type: none"> <li>• Ensure all equipment is on the same power circuit or use a ground lift (if safe and applicable).</li> <li>• Move microphone or cables away from power supplies, monitors, or other electronic devices.</li> <li>• Try a different XLR cable.</li> </ul> |

If the problem persists after trying these solutions, please contact TELEFUNKEN customer support.

8. SPECIFICATIONS

| Feature                        | Detail                    |
|--------------------------------|---------------------------|
| Model Name                     | M81                       |
| Item Model Number              | SYTM-050-RED              |
| Brand                          | TELEFUNKEN                |
| Microphone Form Factor         | Handheld                  |
| Polar Pattern                  | Super Cardioid            |
| Connectivity Technology        | XLR                       |
| Connector Type                 | XLR                       |
| Frequency Range                | 50 Hz – 18 kHz, ±3 dB     |
| Impedance                      | 325 Ohm                   |
| Material                       | Metal                     |
| Color                          | Red                       |
| Item Weight                    | 15.2 ounces (430 Grams)   |
| Product Dimensions (L x W x H) | 7.24 x 1.89 x 1.89 inches |

|                     |   |
|---------------------|---|
| Recommended Uses    | Singing, Vocals, Toms, Guitar Amps, Saxophone |
| Included Components | Mic clip, Zip pouch                           |
| Manufacturer        | TELEFUNKEN Elektroakustik                     |
| UPC                 | 810047031246                                  |


## 9. WARRANTY AND SUPPORT

TELEFUNKEN Elektroakustik products are manufactured to the highest standards and undergo rigorous quality control. For specific warranty information regarding your M81 Red Dynamic Microphone, please refer to the warranty card included with your purchase or visit the official TELEFUNKEN Elektroakustik website.

For technical support, service, or inquiries, please contact TELEFUNKEN Elektroakustik customer service through their official channels. When contacting support, please have your product model number (SYTM-050-RED) and serial number (if applicable) ready.

You can find more information and support resources at the [TELEFUNKEN Store on Amazon](#).

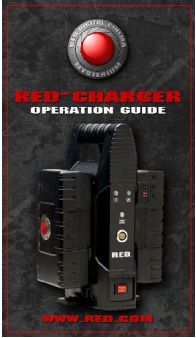
### Related Documents - SYTM-050-RED

|   |   |
|---|---|
|  | <a href="#">TELEFUNKEN Elektroakustik Dynamic Series Microphones: M80, M81, M82 Product Manual</a><br>Comprehensive product manual for TELEFUNKEN Elektroakustik's Dynamic Series microphones, detailing the M80, M81, and M82 models, their features, technical specifications, included accessories, and custom options.  |
|  | <a href="#">TELEFUNKEN Elektroakustik Alchemy Series Microphone Manual</a><br>Comprehensive product manual for the TELEFUNKEN Elektroakustik Alchemy Series microphones, including TF11, TF29, TF39, TF47, and TF51. Details specifications, features, what's in the box, and warranty information.   |
|  | <a href="#">TELEFUNKEN Elektroakustik Alchemy Series Microphone Product Manual</a><br>This manual provides detailed information on the TELEFUNKEN Elektroakustik Alchemy Series microphones, including the TF11, TF17, TF29, TF39, TF47, and TF51 models. It covers product overviews, what's in the box, quick start guides, technical specifications, recommended applications, key features, stereo sets, warranty, and service information. |
|  | <a href="#">TELEFUNKEN Elektroakustik Alchemy Series Microphone Product Manual</a><br>This manual provides detailed information on the TELEFUNKEN Elektroakustik Alchemy Series microphones, including the TF11, TF17, TF29, TF39, TF47, and TF51 models. It covers product overviews, what's in the box, quick start guides, technical specifications, and warranty information.   |



[Blastking MH58-RED Dynamic Vocal Microphone User Manual](#)

User manual for the Blastking MH58-RED Dynamic Vocal Microphone, detailing its features, technical specifications, safety, maintenance, and tips for effective use.



[RED™ CHARGER Operation Guide](#)

Comprehensive operation guide for the RED™ CHARGER, detailing its features, safety instructions, charging modes, technical specifications, and warranty information for RED BRICK® batteries.