

TELEFUNKEN TF51

TELEFUNKEN TF51 Large-Diaphragm Tube Condenser Microphone User Manual

This manual provides comprehensive instructions for the TELEFUNKEN TF51 Large-Diaphragm Tube Condenser Microphone, covering setup, operation, maintenance, and specifications to ensure optimal performance.

1. PRODUCT OVERVIEW

The TELEFUNKEN TF51 is a large-diaphragm tube condenser microphone designed to capture audio with exceptional clarity and a rich, smooth sound profile. Inspired by classic "Austrian" microphones, it delivers a nuanced performance ideal for various recording applications.

Key Features:

- Large-diaphragm tube condenser design for premium audio capture.
- Engineered to provide smooth midrange and airy high-frequency response.
- Unidirectional (Cardioid) polar pattern for focused sound capture and rejection of off-axis noise.
- Robust metal construction ensures durability and longevity.
- Suitable for vocals, acoustic instruments, and percussion.





Figure 1: The TELEFUNKEN TF51 Large-Diaphragm Tube Condenser Microphone. This image displays the microphone's sleek gray and chrome design with its prominent mesh grille.

2. INCLUDED COMPONENTS

The TELEFUNKEN TF51 microphone package typically includes the following items:

- TELEFUNKEN TF51 Microphone
- External Power Supply Unit (required for operation)
- Power Cable for Power Supply Unit
- XLR Cable (for connecting microphone to power supply)
- Custom Shock Mount (for isolation from vibrations)
- Protective Leather Pouch
- User Manual (this document)

3. SETUP INSTRUCTIONS

1. **Mounting the Microphone:** Secure the TF51 microphone into the provided custom shock mount. Ensure the microphone is firmly seated to prevent accidental dislodgement.
2. **Connecting to a Microphone Stand:** Attach the shock mount assembly to a sturdy microphone stand. Adjust the stand's height and angle to position the microphone optimally for your recording source.
3. **Power Supply Connection:** Connect the external power supply unit to a suitable electrical outlet using the provided power cable.
4. **Microphone to Power Supply:** Use the dedicated XLR cable to connect the TF51 microphone to the "Mic" input on the external power supply unit.
5. **Power Supply to Audio Interface/Preamp:** Connect the "Out" port of the power supply unit to an XLR input on your audio interface or microphone preamplifier. Ensure your audio interface is powered on.
6. **Warm-up Time:** As a tube condenser microphone, the TF51 requires a brief warm-up period (typically 10-15 minutes) after being powered on to achieve optimal performance and sound stability.

***Note:** The TF51 requires phantom power, which is supplied by its dedicated external power supply unit. Do not attempt to connect the microphone directly to an audio interface that provides phantom power, as this could damage the microphone.*

4. OPERATING THE MICROPHONE

The TELEFUNKEN TF51 is designed for straightforward operation, focusing on capturing high-quality audio. Its unidirectional (cardioid) polar pattern is ideal for isolating the sound source and minimizing background noise.

Polar Pattern:

- The TF51 features a **Unidirectional (Cardioid)** polar pattern. This means it is most sensitive to sounds coming from directly in front of the microphone and rejects sounds from the sides and rear.
- Position the microphone with its front (where the TELEFUNKEN logo is visible) facing the sound source you wish to record.

Gain Staging:

- Adjust the gain on your audio interface or preamplifier to achieve an optimal recording level. Aim for a strong signal without clipping (distortion).

- Monitor your input levels carefully during recording to ensure the best possible signal-to-noise ratio.

Recommended Usage:

- **Vocals:** Position the microphone 6-12 inches from the vocalist, slightly off-axis to reduce plosives. Use a pop filter (not included) for optimal plosive control.
- **Acoustic Instruments:** Experiment with microphone placement to capture the desired tonal balance. For acoustic guitars, try positioning it near the 12th fret or soundhole.
- **Percussion:** The TF51 can be used as an overhead microphone or for close-miking various percussion instruments, depending on the desired sound.

5. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your TELEFUNKEN TF51 microphone.

- **Storage:** Always store the microphone in its protective leather pouch and wooden case when not in use to shield it from dust, moisture, and physical damage.
- **Cleaning:** Use a soft, dry cloth to gently wipe the microphone body. Avoid using liquid cleaners or abrasive materials, as these can damage the finish or internal components.
- **Humidity Control:** Store the microphone in a low-humidity environment. High humidity can negatively affect the microphone's capsule and tube.
- **Handling:** Handle the microphone with care. Avoid dropping it or subjecting it to strong impacts, as this can damage the delicate internal tube and capsule.
- **Tube Replacement:** The vacuum tube inside the TF51 has a finite lifespan. If you notice a degradation in sound quality or performance over time, consult a qualified technician for tube inspection and potential replacement.

6. TROUBLESHOOTING

If you encounter issues with your TELEFUNKEN TF51 microphone, consider the following troubleshooting steps:

- **No Sound:**
 - Ensure all cables (power, microphone XLR, output XLR) are securely connected.
 - Verify the external power supply unit is plugged in and powered on.
 - Check the input gain on your audio interface/preamp.
 - Allow sufficient warm-up time for the tube.
- **Distorted Sound:**
 - Reduce the input gain on your audio interface/preamp to prevent clipping.
 - Ensure the microphone is not positioned too close to a very loud sound source.
- **Excessive Noise/Hum:**
 - Check all cable connections for proper seating.
 - Ensure the microphone and cables are away from sources of electromagnetic interference (e.g., power cables, fluorescent lights, computer monitors).
 - Verify proper grounding of your audio equipment.

- **Intermittent Sound:**

- Inspect cables for damage or loose connections.
- The vacuum tube may be nearing the end of its lifespan. Consult a technician.

If problems persist after attempting these steps, contact TELEFUNKEN customer support or a qualified audio technician.











7. SPECIFICATIONS

Feature	Specification
Model	TF51
Brand	TELEFUNKEN
Microphone Type	Large-Diaphragm Tube Condenser
Polar Pattern	Unidirectional (Cardioid)
Connectivity Technology	XLR
Connector Type	XLR
Power Source	Corded Electric (via external power supply)
Material	Metal
Color	Gray, Chrome
Signal-to-Noise Ratio	78 dB
Item Weight	10.6 ounces
Product Dimensions (L x W x H)	6.75 x 14.25 x 11.5 inches
Recommended Uses	Voice Recording, Video Recording
UPC	810047032779

8. WARRANTY AND SUPPORT

Specific warranty details are typically provided with your product purchase documentation. For support, service, or warranty inquiries, please refer to the official TELEFUNKEN website or contact their customer service directly.

Online resources and contact information can usually be found at the [TELEFUNKEN Store on Amazon](#) or their official corporate website.

<div><p>PORTABLE MUSIC SYSTEM WITH BLUETOOTH ПОРТАТННАЯ МУЗЫКАЛЬНАЯ СИСТЕМА С BLUETOOTH TF-MS3301B</p><p>Instruction manual Руководство по эксплуатации</p></div>	<p>Telefunken TF-MS3301B Portable Music System with Bluetooth - Instruction Manual</p> <p>Comprehensive instruction manual for the Telefunken TF-MS3301B portable music system. Learn how to connect, operate, and maintain your Bluetooth speaker, including features like FM radio, microphone input, and TWS functionality.</p>
<div><p>ISTRUZIONI PER L'USO OPERATING INSTRUCTIONS</p><p>TE50292S26Y2P</p><p>TELEVISORE A COLORI CON TELECOMANDO COLOUR TELEVISION WITH REMOTE CONTROL</p></div>	<p>TELEFUNKEN TE50292S26Y2P Operating Instructions and Specifications</p> <p>Comprehensive operating instructions, safety information, features, connectivity options, troubleshooting, and technical specifications for the TELEFUNKEN TE50292S26Y2P colour television. Includes VESA mount details and product fiche information.</p>
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<div><p>TWS EARBUDS WITH BLUETOOTH НАУШНИКИ TWS С BLUETOOTH TRUE WIRELESS STYLE TF-1003B</p><p>Instruction manual Руководство по эксплуатации</p></div>	<p>TELEFUNKEN TF-1003B True Wireless Earbuds with Bluetooth - Instruction Manual</p> <p>Official instruction manual for the TELEFUNKEN TF-1003B True Wireless Earbuds with Bluetooth. Learn about setup, operation, charging, pairing, maintenance, and specifications.</p>
<div><p>PORTABLE AUDIO SYSTEM WITH BLUETOOTH ПОРТАТННАЯ АУДИОСИСТЕМА С BLUETOOTH TF-PS2212</p><p>Instruction manual Руководство по эксплуатации</p></div>	<p>TELEFUNKEN TF-PS2212 Portable Audio System with Bluetooth - Instruction Manual</p> <p>User manual for the TELEFUNKEN TF-PS2212 portable audio system with Bluetooth, covering setup, operation, features, specifications, troubleshooting, and warranty information.</p>

TELEFUNKEN

10KG/6KG FRONT LOAD
WASHING/DRYER COMBO



**INSTRUCTION
MANUAL**

[TELEFUNKEN TF1060AU10FLWD 10KG/6KG Front Load Washing/Dryer Combo Instruction Manual](#)

This instruction manual provides essential safety information, setup guides, operating instructions, maintenance tips, and specifications for the TELEFUNKEN TF1060AU10FLWD 10KG/6KG Front Load Washing/Dryer Combo.