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## Tbaxo TB525

# Tbaxo TB525 UHF 8-Channel Wireless Microphone System User Manual

Model: TB525

## 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Tbaxo TB525 UHF 8-Channel Wireless Microphone System. Please read this manual thoroughly before using the product to ensure proper function and to maximize its lifespan. This system is designed for various applications including live vocal performances, karaoke, church speaking, conference meetings, classroom lectures, weddings, parties, and school events.

## 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Tbaxo TB525 UHF Wireless Microphone Receiver
- 8 x Bodypack Transmitters
- 8 x Lavalier/Lapel Microphones
- 8 x Headset Microphones
- 4 x Telescoping Receiver Antennas
- 1 x US 110-240V Power Adapter
- 1 x 1/4" Audio Cable (for mixed output)



Image 2.1: Overview of the Tbaxo TB525 Wireless Microphone System, showing the receiver, eight bodypack transmitters, and eight headset microphones.

### 3. PRODUCT OVERVIEW

#### 3.1 Receiver Unit

The receiver unit is the central component of the system, processing audio signals from the bodypack transmitters. It features individual volume controls for each of the 8 channels, frequency displays, and output connections.



Image 3.1: Front view of the Tbaxo TB525 receiver unit, displaying channel frequencies and volume controls.

### 3.2 Bodypack Transmitters

Each bodypack transmitter is a compact, battery-powered device that sends the microphone's audio signal wirelessly to the receiver. It includes a microphone input, power switch, and a display for channel information.



Image 3.2: Front and back view of a bodypack transmitter, showing the display and belt clip.

### 3.3 Microphones

The system includes both lavalier/lapel microphones and headset microphones, offering flexibility for different speaking and performance scenarios.



Image 3.3: Lavalier (lapel) and headset microphones included with the system.

## 4. SETUP INSTRUCTIONS

Follow these steps to set up your wireless microphone system:

- 1. Receiver Placement:** Place the receiver unit on a stable surface, away from potential sources of interference such as large metal objects, digital devices, or other wireless equipment. Ensure good line-of-sight to the area where the transmitters will be used.
- 2. Antenna Installation:** Screw the four telescoping antennas into the corresponding antenna ports on the rear of the receiver. Extend them fully and position them vertically for optimal signal reception.
- 3. Power Connection:** Connect the provided 110-240V power adapter to the DC 16V input on the rear of the receiver, then plug it into a power outlet. Do not power on the unit yet.
- 4. Audio Output Connection:**
  - Mixed Output:** For a combined output of all 8 channels, connect a 1/4" audio cable from one of the "MIXED OUT" jacks on the receiver to the input of your mixer or amplifier.
  - Individual XLR Outputs:** For individual channel control, connect XLR cables from the "XLR OUT" ports (one for each channel) on the receiver to the corresponding inputs on your mixer or audio interface.



Image 4.1: Rear panel of the receiver, highlighting the XLR and 1/4" mixed audio output connections.

5. **Bodypack Battery Installation:** Open the battery compartment on each bodypack transmitter. Insert two 1.5V AA batteries, ensuring correct polarity. Close the compartment securely. (*Note: Batteries are not included.*)
6. **Microphone Connection to Bodypacks:** Connect your chosen lavalier/lapel or headset microphone to the 3-pin mini XLR input on the bodypack transmitter. Ensure a secure connection.



Image 4.2: Side view of a bodypack transmitter, showing the ON/OFF switch and the microphone input port.

## 5. OPERATING INSTRUCTIONS

Once the system is set up, follow these steps for operation:

1. **Power On Receiver:** Press the power button on the front panel of the receiver unit. The display screens should illuminate.
2. **Power On Bodypack Transmitters:** For each microphone you intend to use, slide the ON/OFF switch on the bodypack transmitter to the "ON" position. The bodypack's display should show its assigned channel and frequency.
3. **Volume Adjustment:**
  - **Receiver Volume:** Adjust the individual volume knobs on the receiver for each active channel to a suitable level.
  - **Mixer/Amplifier Volume:** Further adjust the overall volume and individual channel volumes on your connected mixer or amplifier.
4. **Microphone Usage:**
  - **Lavalier/Lapel Microphones:** Clip the microphone to clothing, approximately 6-8 inches below the chin, ensuring it is not covered by fabric.
  - **Headset Microphones:** Position the headset microphone boom approximately 1-2 inches from the corner of your mouth.
5. **Monitoring Audio:** Speak or sing into the microphone. Observe the AF (Audio Frequency) level indicators on the receiver to ensure a strong, clear signal without clipping. Adjust volume as needed.
6. **Power Off:** After use, first turn off all bodypack transmitters, then power off the receiver unit.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your system:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the receiver and transmitters. Do not use liquid cleaners or solvents.
- **Battery Care:** Remove batteries from bodypack transmitters if the system will not be used for an extended period to prevent leakage.
- **Storage:** Store the system in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Antennas:** Handle receiver antennas with care to prevent bending or damage.

## 7. TROUBLESHOOTING

If you encounter issues, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound output	Receiver or transmitter not powered on; low battery; incorrect cable connection; receiver volume too low; mixer/amplifier input issues.	Ensure all units are powered on. Check bodypack batteries. Verify all audio cables are securely connected. Increase receiver and mixer/amplifier volume. Check mixer/amplifier input settings.
Static or interference	Proximity to other wireless devices; environmental interference; transmitter too far from receiver; weak signal.	Move receiver away from other electronics. Ensure clear line-of-sight between transmitter and receiver. Reduce distance between transmitter and receiver. Ensure antennas are fully extended.
Low volume or distorted sound	Microphone not positioned correctly; low battery; receiver or mixer volume settings incorrect.	Adjust microphone position. Replace bodypack batteries. Adjust receiver and mixer/amplifier volume levels to avoid clipping or being too low.
Short operating range	Obstructions between transmitter and receiver; environmental interference; receiver antenna position.	Ensure clear line-of-sight. Reposition receiver antennas. Avoid using the system near large metal structures or dense walls.

## 8. SPECIFICATIONS

Technical specifications for the Tbaxo TB525 Wireless Microphone System:

Feature	Specification
Number of Channels	8 channels
Carrier Frequency Range	500MHz-580MHz (Specific frequencies: 520.1, 523.7, 525.1, 527.7 MHz and 550.1, 553.7, 555.1, 557.7 MHz)
Frequency Stability	±0.006%
Normal Deviation	±22kHz
S/N Ratio	<120dB

Feature	Specification
T.H.D (Total Harmonic Distortion)	<0.6%
Frequency Response	50Hz-15kHz
Receiver Sensitivity	>80dB
Audio Output	Balanced (XLR) and Unbalanced (1/4" Jack)
Receiver Power Requirement	AC 16V, 2000mA
Receiver Dimensions	510 x 290 x 70 mm (Approx. 20.1 x 11.4 x 2.8 inches)
Receiver Weight	Approx. 13 lbs (5.9 kg)
Microphone Cartridge Type	Dynamic
Bodypack RF Output	<10mW
Bodypack Power Source	2 x 1.5V AA batteries
Material	Metal (Receiver)
Connectivity Technology	XLR, 6.35 mm Jack

## 9. WARRANTY INFORMATION

The Tbaxo TB525 Wireless Microphone System comes with a **three-year free warranty**. For warranty service or inquiries, please contact the seller or manufacturer directly. Our maintenance department is located in NY.

## 10. SUPPORT

For further assistance, technical support, or questions not covered in this manual, please refer to the contact information provided by your retailer or the manufacturer. Ensure you have your product model (TB525) and purchase details available when seeking support.