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› Takstar WPM-300 UHF Wireless in Ear Monitor System - Ideal In Ear Monitor System for Bands, Musicians, and more with 10 Channels, LED Display, and 50m Transmission Distance

TNP Products MIC_TAKS_WPM300

Takstar WPM-300 UHF Wireless In-Ear Monitor System User Manual

Model: MIC_TAKS_WPM300 | Brand: TNP Products

1. INTRODUCTION

The Takstar WPM-300 UHF Wireless In-Ear Monitor System is designed to provide musicians, performers, and speakers with a reliable and high-quality stage monitoring solution. This system utilizes UHF wireless transmission to ensure stable performance and offers flexibility for various applications, including live performances, studio recordings, and multilingual interpretation.

The system includes a transmitter, a bodypack receiver with an HD LED display for easy monitoring, and comfortable in-ear monitors. Its lightweight design and robust features make it an excellent choice for professional audio monitoring.



Figure 1: Overview of the Takstar WPM-300 Wireless In-Ear Monitor System components.

2. PACKAGE CONTENTS

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

- 1x Transmitter
- 1x Bodypack Receiver
- 1x In-Ear Monitors
- 3x Silicone Ear Tips (S, M, L)
- 2x AA Dry Battery
- 1x ø3.5mm Audio Cable
- 1x RCA Audio Cable

- 1x ø3.5mm to 6.3mm Plug
- 1x 12V/300mA Adapter
- 1x User Manual (this document)

3. COMPONENTS OVERVIEW

3.1. Transmitter

The transmitter unit sends the audio signal wirelessly to the bodypack receivers. It features various input and output ports for connecting to audio sources and monitoring.

HIGH PERFORMANCE TRANSMITTER

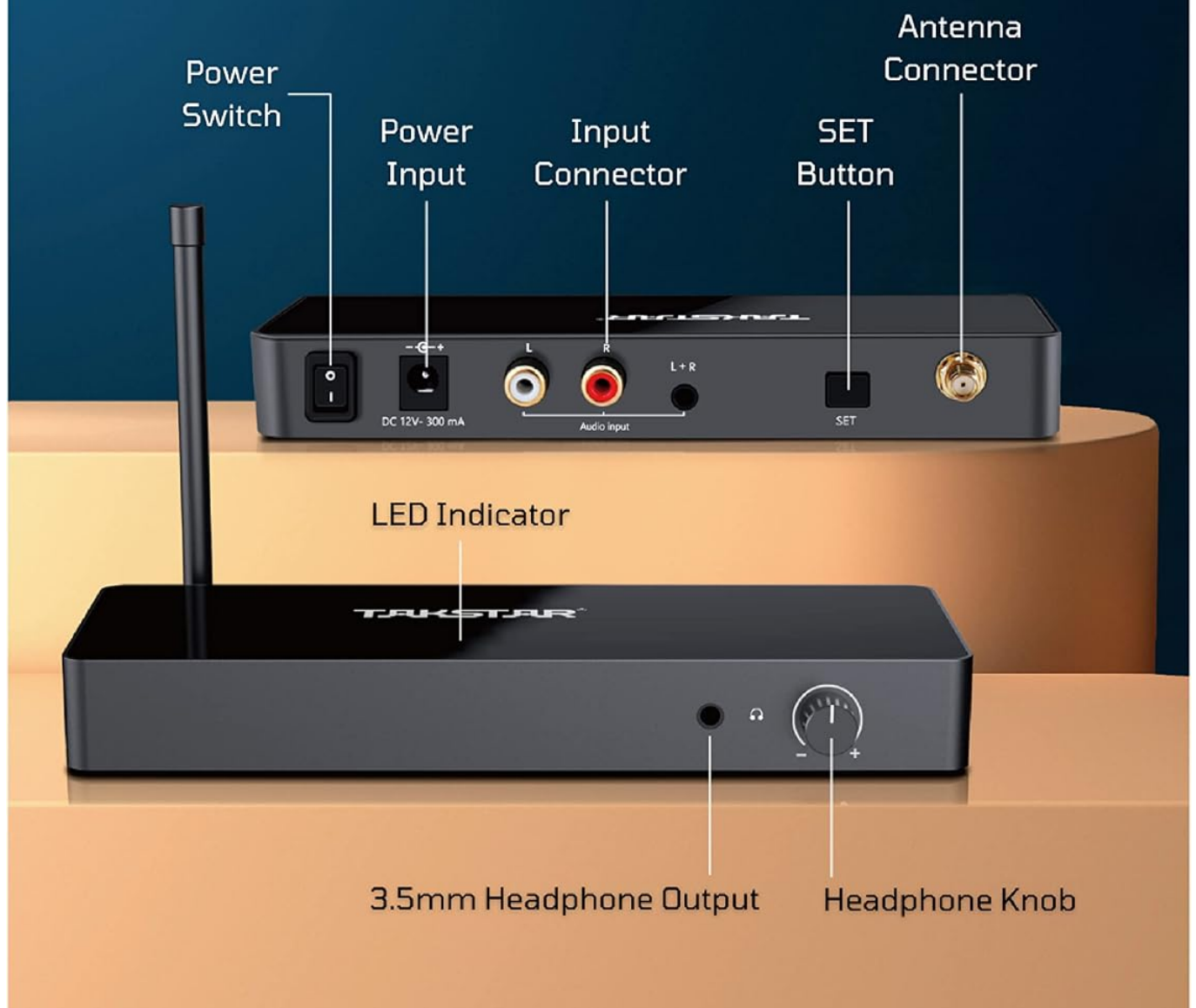


Figure 2: Transmitter with labeled ports and controls.

- **Power Switch:** Turns the transmitter on or off.
- **Power Input:** Connects to the 12V/300mA power adapter.
- **Input Connector (L/R):** Audio input for connecting to mixers, audio interfaces, etc.
- **SET Button:** Used for channel selection and pairing.

- **Antenna Connector:** For attaching the UHF antenna.
- **3.5mm Headphone Output:** For direct monitoring from the transmitter.
- **Headphone Knob:** Adjusts the volume of the headphone output.
- **LED Indicator:** Shows power and signal status.

3.2. Bodypack Receiver

The bodypack receiver is a compact, portable unit that receives the wireless audio signal from the transmitter. It features an HD LED display for status monitoring and controls for volume and channel selection.

BODYPACK RECEIVER

The lightweight bodypack receiver has an HD LED screen that displays the device's current status. Convenient to carry and allows volume adjustment on the go



Figure 3: Bodypack Receiver with HD LED display.

- **HD LED Display:** Shows channel, connection status, and battery level.
- **SET Button:** Used for channel selection.
- **Volume Controls (+/-):** Adjusts the listening volume of the in-ear monitors.

- **3.5mm Headphone Jack:** For connecting the in-ear monitors.
- **Battery Compartment:** Holds two AA batteries.

3.3. In-Ear Monitors

The included in-ear monitors provide clear and detailed audio reproduction. They are designed for comfort during extended use and come with multiple silicone ear tip sizes for a secure fit.

IN-EAR EARPHONE

Includes in-ear monitors that are comfortable to wear and offer rich delicate sound and strong bass



Figure 4: In-Ear Monitor design.

4. SETUP GUIDE

1. **Connect the Transmitter:**

- Attach the antenna to the Antenna Connector on the transmitter.
- Connect the 12V/300mA power adapter to the Power Input port of the transmitter and plug it into a power outlet.
- Connect your audio source (e.g., mixer, audio interface) to the Input Connector (L/R) using the provided ø3.5mm Audio Cable or RCA Audio Cable, or the ø3.5mm to 6.3mm Plug as needed.
- Turn on the transmitter using the Power Switch. The LED indicator should illuminate.

2. Prepare the Bodypack Receiver:

- Open the battery compartment on the bodypack receiver and insert two AA dry batteries, ensuring correct polarity.
- Connect the in-ear monitors to the 3.5mm Headphone Jack on the bodypack receiver.
- Select the appropriate silicone ear tips (S, M, L) for a comfortable and secure fit in your ears.

3. Pairing and Channel Selection:

- Ensure both the transmitter and bodypack receiver are powered on.
- On the transmitter, press the **SET** button to cycle through available channels.
- On the bodypack receiver, press the **SET** button to select the same channel as the transmitter. The HD LED display will show the selected channel.
- Once the channels match, the bodypack receiver will establish a connection with the transmitter. The display will indicate connection status.
- The system supports up to 10 transmitters working simultaneously, each on a different channel, for multi-user or multi-language applications.

5. OPERATING INSTRUCTIONS

5.1. Adjusting Volume

Use the + and - buttons on the bodypack receiver to adjust the listening volume of your in-ear monitors. Start with a low volume and gradually increase it to a comfortable level to prevent hearing damage.

5.2. Monitoring Display

HD LED SCREEN

Receiver gas LED screen that shoes current device status such as battery level channel, and connection status



Figure 5: HD LED Screen on the Bodypack Receiver.

The HD LED display on the bodypack receiver provides real-time information:

- **Channel Number:** Indicates the currently selected wireless channel.
- **Connection Status:** Shows if the receiver is successfully connected to the transmitter.

- **Battery Level:** Displays the remaining battery life of the bodypack receiver. Replace batteries when the indicator is low.

5.3. Transmission Range

The system offers a stable and reliable transmission distance of up to 50 meters (line of sight). Optimal performance is achieved when there are no significant obstructions between the transmitter and receiver.

UHF WIRELESS TRANSMISSION

PLL (phase-locked loop) technology, stable and reliable performance. Transmit up to around 50 meters within line of sight.



Figure 6: UHF Wireless Transmission range.

5.4. Multi-Receiver Operation

The Takstar WPM-300 system supports the use of multiple bodypack receivers with a single transmitter, or multiple transmitters on different channels. This allows for flexible setups in various scenarios, such as multiple performers monitoring the same mix, or different groups monitoring separate audio feeds (e.g., for multilingual interpretation).

MULTI-RECEIVER

Supports up to 10 transmitters working at the same time, suitable for multilingual interpretation



Figure 7: Multi-receiver setup example.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter and receiver. For the in-ear monitors, gently wipe the earpieces and cables. Do not use harsh chemicals or abrasive materials.
- **Ear Tips:** Regularly clean the silicone ear tips with mild soap and water, then rinse thoroughly and allow them to dry completely before reattaching. Replace ear tips if they become damaged or worn.
- **Battery Care:** Remove batteries from the bodypack receiver if the unit will not be used for an extended period to prevent leakage and damage.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures. When transporting, use a protective case to prevent physical damage.
- **Cable Care:** Avoid sharp bends or excessive pulling on cables to prevent internal wire damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from in-ear monitors.	Receiver not powered on. Low or dead batteries in receiver. In-ear monitors not properly connected. Transmitter not powered on or not sending signal. Channels not matched. Volume on receiver is too low.	Ensure receiver is powered on. Replace AA batteries in the receiver. Check 3.5mm jack connection to receiver. Verify transmitter is on and connected to audio source. Ensure transmitter and receiver are on the same channel. Increase volume on the bodypack receiver.
Intermittent sound or static.	Out of transmission range. Obstructions between transmitter and receiver. Interference from other wireless devices. Low battery on receiver.	Move closer to the transmitter. Ensure clear line of sight. Change to a different wireless channel. Replace receiver batteries.
HD LED display is blank or dim.	Receiver not powered on. Low or dead batteries.	Ensure receiver is powered on. Replace AA batteries.

8. SPECIFICATIONS

Feature	Detail
Model Number	MIC_TAKS_WPM300
Brand	TNP Products (Takstar)
Transmitter Operating Frequency	520-600MHz
Transmitter Operating Current	100mA

Feature	Detail
Transmitter Power Supply	DC 12V/300mA
Transmitting Distance	50m (line of sight)
Transmitting Power	5dbm
Receiver Frequency Range	520-600MHz
Receiver Operating Voltage	DC 2.5V (2.2V-3.0V) / two AA batteries
Receiver Operating Current	115mA
Frequency Response	20Hz-15 kHz (-6dB intercept point)
S/N Ratio	60dB
Product Dimensions	26.67 x 21.59 x 6.3 cm
Product Weight	549.98 g
Ear Placement	In Ear
Form Factor	In Ear
Headphone Jack	3.5 mm Jack, 6.35 mm Jack (for adapter)
Connectivity Technology	Wireless (UHF)

9. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official documentation provided with your product or visit the manufacturer's official website. Keep your purchase receipt as proof of purchase for any warranty claims.

Note: This user manual provides general instructions. Specifications and features are subject to change without prior notice.

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