

## TONOR TW820

# TONOR TW820 Wireless Microphone System User Manual

Model: TW820

Brand: TONOR

## 1. INTRODUCTION

Thank you for choosing the TONOR TW820 Wireless Microphone System. This professional UHF cordless dynamic microphone system is designed to deliver clear, pristine sound quality for various applications, including home karaoke, large parties, DJ events, weddings, and classroom use. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

## 2. WHAT'S IN THE BOX

- TONOR TW820 UHF Wireless Receiver
- 2 x Wireless Handheld Microphones
- Power Adapter for Receiver
- 6.35mm Audio Cable
- User Manual

*Note: 2 x AA batteries are required for each microphone and are not included.*

## 3. PRODUCT OVERVIEW



**Figure 3.1:** Complete TONOR TW820 Wireless Microphone System, showing the receiver unit and two handheld microphones.

### 3.1. UHF Wireless Receiver

# UHF Wireless Receiver



**Figure 3.2:** Front and rear panels of the UHF Wireless Receiver. The front panel features the Power Switch, Channel A/B Volume controls, and an LCD Display. The rear panel includes Antenna B, 6.35mm (1/4") Audio Output Jack, Power Jack, Antenna A, and Balanced XLR Outputs for Channel B/A.

- **Power Switch:** Turns the receiver on/off.
- **Channel A/B Volume:** Independent volume control for each microphone channel.
- **LCD Display:** Shows channel information and signal strength.
- **6.35mm (1/4") Audio Output Jack:** Main mixed audio output.
- **Balanced XLR Output (Channel B/A):** Individual balanced outputs for each microphone channel.
- **Power Jack:** Connects to the DC 12V power adapter.
- **Antennas (A & B):** For stable wireless signal reception.

## 3.2. Handheld Microphones



**Figure 3.3:** Detailed view of the handheld wireless microphone, highlighting the Battery Level indicator, Signal Indicator, Channel display, Power Button, and Channel Switch Button. It also shows the battery compartment for 2 AA batteries.

## Sturdy Construction



**Figure 3.4:** Exploded view illustrating the robust construction of the microphone, featuring a shatter-resistant steel grille, high-quality capsule, and all-metal housing for durability.

- **Power Button:** Long press to turn the microphone on/off.
- **Channel Switch Button:** Allows adjustment of the microphone's frequency channel.
- **LCD Display:** Shows battery level, signal indicator, and current channel.
- **Battery Compartment:** Requires 2 x AA batteries (not included).
- **Durable Construction:** All-metal mic with steel mesh grille for resistance to impact and corrosion.

## 4. SETUP GUIDE

Follow these steps to set up your TONOR TW820 Wireless Microphone System:

### 4.1. Connecting the Receiver

1. Connect the provided power adapter to the DC 12V Power Jack on the rear of the receiver and plug it into

a power outlet.

2. Extend the antennas on the receiver for optimal signal reception.
3. Connect the receiver to your audio mixer, amplifier, or powered speaker using either the 6.35mm (1/4") Audio Output Jack or the Balanced XLR Outputs.



**Figure 4.1:** Connection diagram illustrating how to connect the receiver to an audio mixer, amplifier, and speakers using 6.35mm or XLR cables. Note that XLR to XLR cables are not included.

**Important Note:** The system requires an amplifier or powered speaker to output sound. It is not compatible with laptops, iPads, cellphones, or AV receivers directly.

## 4.2. Preparing the Microphones

1. Unscrew the bottom part of each microphone to access the battery compartment.
2. Insert 2 x AA batteries into each microphone, ensuring correct polarity (+/-).
3. Screw the bottom part back on securely.

## 4.3. Powering On and Pairing

1. **Optimum Boot Order:** Audio Mixer → Audio Amplifier → Speaker → Receiver → Microphone.
2. Turn on the receiver by pressing its Power Switch. The LCD display will illuminate.
3. Long press the Power Button on each microphone to turn them on. The microphones will automatically

- pair with the receiver. The microphone's LCD display will show battery level, signal indicator, and channel.
4. Adjust the volume for each microphone using the Channel A/B Volume controls on the receiver.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Adjusting Microphone Frequency

The TONOR TW820 system offers 15 adjustable frequencies per UHF microphone to prevent interference. If you experience interference or wish to use multiple sets simultaneously (up to 15 sets), you can change the microphone's operating frequency:

1. With the microphone powered on, briefly press the **Channel Switch Button** (located below the power button) to cycle through available frequencies.
2. The receiver will automatically synchronize with the new frequency selected on the microphone.

### 5.2. Sound Quality and Range

# Incredible Sound Quality

Effectively capture clear sound and prevent ambient noises.

Sensitivity	-52dB±3dB
S/N Ratio	>96dB



**Figure 5.1:** Illustration of the microphone's internal structure and its ability to capture clear sound while reducing ambient noise, highlighting its sensitivity and S/N ratio.

The professional cardioid dynamic capsule ensures excellent, clear, pure, and full sound reproduction while effectively eliminating background noise and howling. The system provides a long transmission range of up to 60 meters (200 feet) in open space, ensuring stable signal transmission.

# Powerful Wireless Range

Spread your voice stably up to 200ft/60m.



FC



UK  
CA

CE  
RoHS

Standard Frequency Band

UHF Distance

**200ft / 60m**

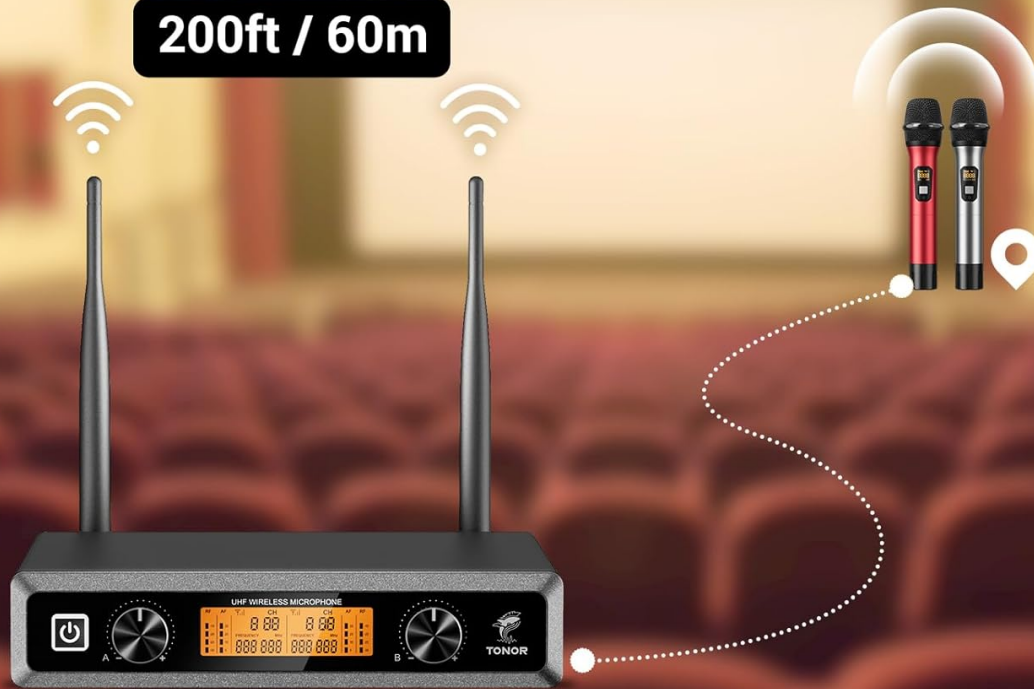


Figure 5.2: Visual representation of the 200ft/60m UHF wireless range, indicating stable signal spread.

## 5.3. Powering Down

**Optimum Shutdown Order:** Microphone → Receiver → Speaker → Audio Amplifier → Audio Mixer.

1. Long press the Power Button on each microphone to turn them off.
2. Turn off the receiver by pressing its Power Switch.
3. Turn off any connected audio equipment (speakers, amplifiers, mixers).

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the receiver and microphones. Do not use liquid cleaners or abrasive materials.
- **Storage:** When not in use for extended periods, remove batteries from the microphones to prevent leakage. Store the system in a cool, dry place away from direct sunlight and extreme temperatures.

- **Battery Replacement:** Replace microphone batteries when the battery level indicator on the microphone's LCD display shows low power.
- **Microphone Grille:** The steel mesh grille is designed to be durable. Avoid dropping the microphones to prevent damage.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output.	<ul style="list-style-type: none"> <li>• Receiver not powered on.</li> <li>• Microphones not powered on or low battery.</li> <li>• Receiver not connected to amplifier/speaker.</li> <li>• Volume levels too low.</li> <li>• Incorrect connection order.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure receiver is plugged in and powered on.</li> <li>• Check microphone batteries and power them on.</li> <li>• Verify receiver is properly connected to an amplifier or powered speaker.</li> <li>• Increase volume on receiver and connected audio equipment.</li> <li>• Follow the optimum boot order: Mixer → Amplifier → Speaker → Receiver → Microphone.</li> </ul>
Interference or poor signal.	<ul style="list-style-type: none"> <li>• Other wireless devices operating on similar frequencies.</li> <li>• Obstructions between microphone and receiver.</li> <li>• Microphone too far from receiver.</li> </ul>	<ul style="list-style-type: none"> <li>• Change the microphone's frequency using the Channel Switch Button.</li> <li>• Ensure clear line of sight between microphones and receiver.</li> <li>• Reduce distance between microphone and receiver (within 60m/200ft).</li> </ul>
Microphone not pairing.	<ul style="list-style-type: none"> <li>• Microphone not powered on.</li> <li>• Receiver not powered on.</li> <li>• Batteries are dead.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure both microphone and receiver are powered on.</li> <li>• Replace batteries in the microphone.</li> <li>• Try cycling the microphone's power or changing its channel.</li> </ul>
System not compatible with laptop/iPad/cellphone/AV receiver.	This system is designed for use with dedicated audio equipment.	The TONOR TW820 system requires an amplifier or powered speaker for audio output. It is not designed for direct connection to consumer electronics like laptops, iPads, cellphones, or standard AV receivers.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	TW820
Connectivity Technology	UHF Wireless
Number of Channels	2 (Dual Channel Receiver)
Adjustable Frequencies	15 per microphone
Transmission Range	Up to 60 meters (200 feet) in open space
Microphone Type	Dynamic, Cardioid Polar Pattern
Microphone Construction	All-metal with steel mesh grille
Microphone Power Source	2 x AA Batteries (not included)
Receiver Output	6.35mm (1/4") Mixed Output, Balanced XLR Outputs (A & B)
Compatible Devices	Karaoke Machine, Amplifier, Powered Speaker
Special Feature	Volume Control (per channel on receiver)

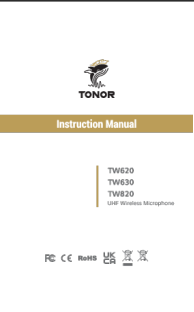


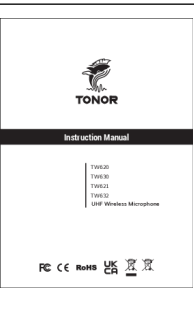
## 9. WARRANTY AND SUPPORT

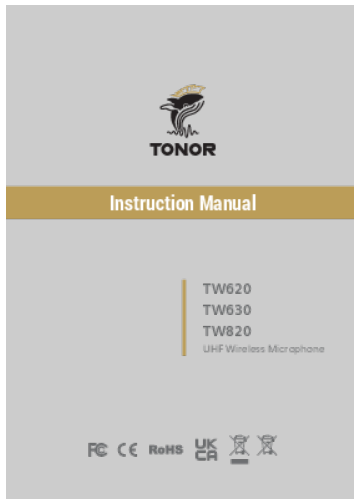
TONOR products come with a standard warranty. For detailed warranty information, technical support, or customer service inquiries, please visit the official TONOR website or contact their customer support team directly.

**TONOR Official Website:** [www.tonormic.com](http://www.tonormic.com)

Please have your product model number (TW820) and purchase information ready when contacting support.

### Related Documents

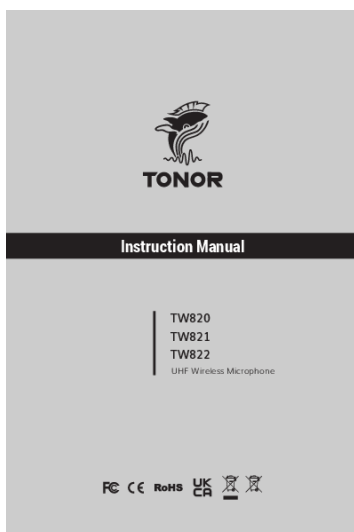
	<p><a href="#">TONOR UHF Wireless Microphone Instruction Manual for TW620, TW630, TW820</a></p> <p>Comprehensive instruction manual for TONOR TW620, TW630, and TW820 UHF wireless microphones. Learn about setup, operation, specifications, and troubleshooting for optimal audio performance.</p>
	<p><a href="#">TONOR TW620 TW630 TW820 UHF Wireless Microphone Instruction Manual</a></p> <p>This instruction manual provides comprehensive guidance for setting up, operating, and troubleshooting the TONOR TW620, TW630, and TW820 UHF wireless microphone systems. Learn about specifications, installation, and usage to achieve optimal audio performance.</p>
	<p><a href="#">TONOR TW820, TW821, TW822 UHF Wireless Microphone Instruction Manual</a></p> <p>Comprehensive instruction manual for TONOR UHF wireless microphones, models TW820, TW821, and TW822. Learn about package contents, operating environments, specifications, and troubleshooting.</p>
	<p><a href="#">TONOR UHF Wireless Microphone Instruction Manual for TW620, TW630, TW621, TW632</a></p> <p>This comprehensive instruction manual provides essential information for the TONOR UHF Wireless Microphones, including models TW620, TW630, TW621, and TW632. It covers detailed operation instructions, technical specifications, and troubleshooting guidance to ensure optimal performance and user experience for these high-quality audio devices.</p>



### [TONOR TW620 TW630 TW820 UHF Wireless Microphone Instruction Manual](#)

This instruction manual provides comprehensive guidance for setting up, operating, and troubleshooting the TONOR TW620, TW630, and TW820 UHF wireless microphone systems. Learn about specifications, installation, and usage to achieve optimal audio performance.

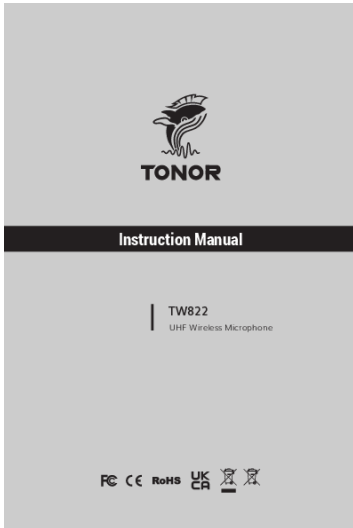
lang:en **score:37** filesize: 2.59 M page\_count: 60 document date: 2023-06-13



### [TONOR TW820, TW821, TW822 UHF Wireless Microphone Instruction Manual](#)

Comprehensive instruction manual for TONOR UHF wireless microphones, models TW820, TW821, and TW822. Learn about package contents, operating environments, specifications, and troubleshooting.

lang:en **score:37** filesize: 7.62 M page\_count: 96 document date: 2023-10-16



[TONOR TW822 UHF Wireless Microphone Instruction Manual](#)

Instruction manual for the TONOR TW822 UHF Wireless Microphone, covering package contents, operating environments, safety notes, specifications, and bodypack operation.

lang:en score:23 filesize: 542.53 K page\_count: 7 document date: 2024-01-10

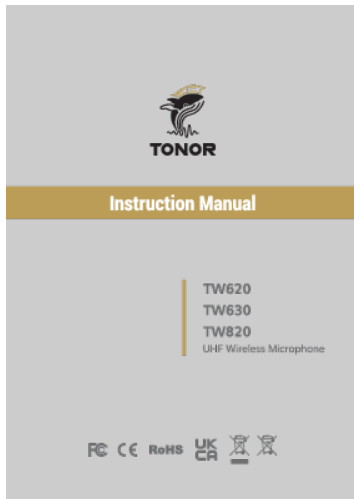


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User LCSA04155088EB RF Exposure Fujian EastWest Lifewit Technology Co LTD TWM2 WIRELESS MICROPHONE 2AZNY 2AZNYTWM2 twm2

Page 1 of 9 FCC ID: 2AZNY-TWM2 Report No.: LCSA04155088EB RF Exposure Evaluation For Fujian EastW ... mation EUT : WIRELESS MICROPHONE Test Model : TWM2 Additional Model No. : TW620, TW630, TW631, **TW820**, TW821, TW830, TW850 Model Declaration Ratings : PCB board, structure and internal of these ...

lang:en score:15 filesize: 717.76 K page\_count: 9 document date: 2025-06-24



[TONOR UHF Wireless Microphone Instruction Manual for TW620, TW630, TW820](#)

Comprehensive instruction manual for TONOR TW620, TW630, and TW820 UHF wireless microphones. Learn about setup, operation, specifications, and troubleshooting for optimal audio performance.

lang:en score:14 filesize: 6.92 M page\_count: 60 document date: 2023-03-16