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> GTDaudio 733HL Wireless Microphone System User Manual

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Model: 733HL

INTRODUCTION

The GTDaudio 733HL wireless microphone system offers superior sound quality and professional features for a wide range of applications. This system includes 800 selectable channels, automatic frequency scanning, true diversity operation, and automatic transmitter setup for reliable performance. This manual provides detailed instructions for setting up, operating, and maintaining your GTDaudio 733HL system.

PACKAGE CONTENTS

Please check the package carefully to ensure all items are present:

- 1x GTDaudio 733HL Receiver
- 1x Handheld Wireless Microphone
- 1x Bodypack Transmitter
- 1x Lavalier Microphone (connects to bodypack)
- 1x Headset Microphone (connects to bodypack)
- 2x Antennas
- 1x AC Power Adapter
- 1x 1/4" Audio Cable
- User Manual (this document)

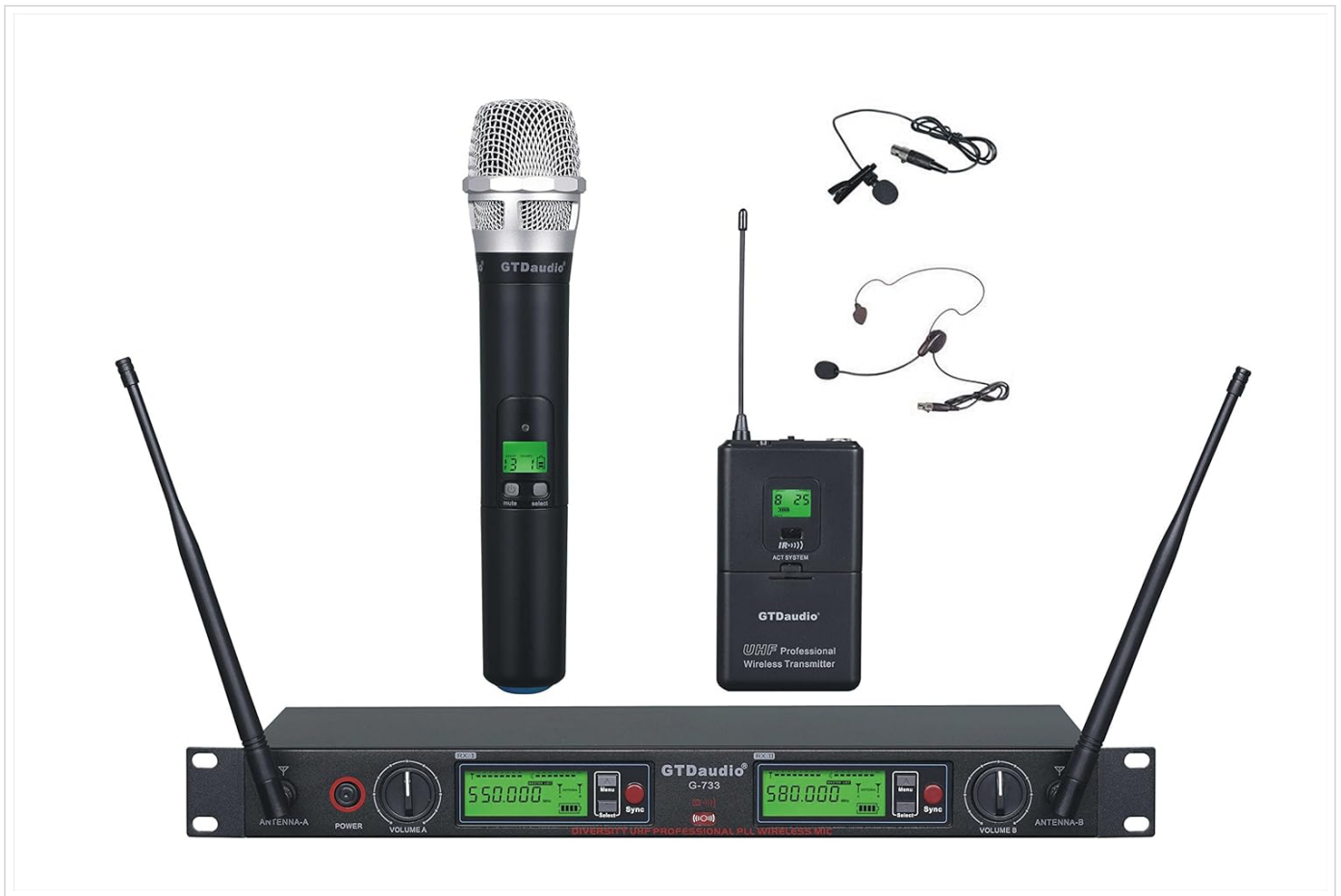


Image: Main components of the GTDaudio 733HL system, including the receiver, handheld microphone, bodypack transmitter, and lavalier microphone.



Image: Included accessories: AC power adapter and 1/4 inch audio cable for connecting the receiver to an audio mixer or amplifier.

PRODUCT FEATURES

The GTDaudio 733HL system incorporates advanced features for optimal performance:

- **800 Selectable Frequencies:** Each channel offers 800 selectable frequencies, allowing up to 20 sets to be used simultaneously without interference.
- **True Diversity Operation:** Enhances range and reliability while significantly reducing signal dropouts.
- **Automatic Frequency Scanning:** Automatically scans and identifies the most interference-free channel available in your environment.
- **Automatic Transmitter Setup:** Simplifies synchronization between the transmitter and receiver channels.
- **Extended Range:** Operates effectively up to 450 feet (150 meters).
- **Frequency Range:** 550MHz - 590MHz (FCC Compliant).

Professional Features Include:

1. 2x800 selectable frequencies. up to 20 sets can be used at the same time.
2. True diversity operation for increased range/reliability, reducing dropouts
3. Automatic frequency scanning to find and set the most interference-free channel in the area.
4. Automatic transmitter setup, the channel of the transmitter and receiver can easily synchronize
5. Range: Up to 450 feet (150 meters)
6. Programmable frequency: 550Mhz - 590Mhz (FCC Compliant)

Image: Visual representation of key professional features, including selectable frequencies, true diversity, and automatic scanning.

SETUP GUIDE

1. Receiver Placement and Connections

1. **Position the Receiver:** Place the receiver in a central location, away from large metal objects or other electronic devices that may cause interference. Ensure a clear line of sight to the intended area of use for the microphones.
2. **Attach Antennas:** Screw the two included antennas onto the antenna connectors at the rear of the receiver. Position them vertically for optimal signal reception.
3. **Connect Power:** Connect the AC power adapter to the "POWER" input on the rear of the receiver and plug it into a standard electrical outlet.
4. **Connect Audio Output:**
 - For mixed output: Connect one end of the 1/4" audio cable to the "MIX OUT" jack on the receiver and the other end to an input on your audio mixer or amplifier.
 - For individual outputs: Use XLR cables (not included) to connect the "OUTPUT A" and "OUTPUT B" XLR jacks to separate inputs on your audio mixer for independent control of each microphone channel.



Image: Rear view of the receiver, highlighting the power input, mixed 1/4" output, individual XLR outputs, and antenna ports.

2. Microphone Setup

1. Install Batteries:

- **Handheld Microphone:** Unscrew the bottom part of the microphone handle to reveal the battery compartment. Insert two AA batteries, observing polarity.
- **Bodypack Transmitter:** Open the battery compartment cover on the bodypack. Insert two AA batteries, observing polarity.

2. **Connect Lavalier/Headset Mic (for Bodypack):** Plug the lavalier or headset microphone connector into the input jack on the bodypack transmitter.

3. Power On and Frequency Synchronization

1. **Power On Receiver:** Press the power button on the receiver. The display should illuminate.
2. **Power On Transmitters:** Turn on the handheld microphone and the bodypack transmitter.
3. **Automatic Frequency Scan:** The receiver features automatic frequency scanning. Press the "SCAN" button on the receiver (if available, or refer to the receiver's display for instructions) to find the clearest available frequency.
4. **Synchronize Transmitters:** Once a clear frequency is found, use the IR sync function (typically by aligning the IR window on the transmitter with the IR window on the receiver and pressing a "SYNC" button) to automatically set the transmitter's frequency to match the receiver's. Repeat for both transmitters.
5. **Adjust Volume:** Set the volume controls on the receiver to an appropriate level.

OPERATING INSTRUCTIONS

Using the Microphones

- **Handheld Microphone:** Hold the microphone approximately 2-6 inches from your mouth for optimal sound pickup. Avoid covering the grille with your hand.
- **Lavalier Microphone:** Clip the lavalier microphone to your clothing, ideally about 6-8 inches below your chin, ensuring it is not rubbing against fabric.
- **Headset Microphone:** Position the headset microphone boom so the microphone element is near the corner of your mouth, about 1-2 inches away.

Mute Function

Most transmitters include a mute button. Pressing this button will temporarily silence the microphone output without turning off the unit. Press it again to unmute. Be aware that a slight click sound may be audible when pressing the mute button; for critical applications, mute the channel on your audio mixer instead.

Power Off

When finished, turn off both the transmitters and the receiver to conserve battery life and prevent unintended audio transmission.

MAINTENANCE

- **Cleaning:** Wipe the receiver and microphones with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Battery Replacement:** Replace batteries in the handheld microphone and bodypack transmitter when the low battery indicator appears on the transmitter or receiver display, or when audio quality degrades. Always use fresh, high-quality AA batteries. Remove batteries if the system will not be used for an extended period.
- **Storage:** Store the system in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from microphone	Microphone/transmitter not powered on. Low or dead batteries. Microphone muted. Receiver not powered on. Incorrect frequency synchronization. Audio cable disconnected or faulty. Mixer/amplifier input level too low.	Ensure all units are powered on. Replace batteries. Unmute the microphone. Power on the receiver. Perform frequency scan and sync again. Check all audio cable connections. Increase input gain on mixer/amplifier.
Intermittent sound or dropouts	Interference from other wireless devices. Obstructions between transmitter and receiver. Antennas not positioned correctly. Transmitter too far from receiver. Low batteries.	Perform automatic frequency scan to find a clearer channel. Relocate receiver to a position with clear line of sight. Ensure antennas are vertical and unobstructed. Reduce distance between transmitter and receiver. Replace batteries.

Problem	Possible Cause	Solution
Poor sound quality (hiss, distortion)	Incorrect gain staging on mixer/receiver. Interference. Microphone too far from sound source.	Adjust receiver volume and mixer input gain. Rescan for a clear frequency. Ensure microphone is positioned correctly relative to the sound source.

SPECIFICATIONS

Feature	Detail
Model Number	733HL
Brand	GTDaudio
Frequency Range	550MHz - 590MHz (Adjustable)
Number of Channels	800 selectable per channel
Operating Range	Up to 450 feet (150 meters)
Signal-to-Noise Ratio	80 dB
Microphone Form Factor	Handheld, Lavalier, Headset
Connectivity Technology	UHF Wireless, XLR
Power Source	Battery Powered (AA for transmitters), AC Adapter (for receiver)
Item Dimensions (Receiver)	17 x 7 x 2 inches
Item Weight	7.54 pounds (total package)
UPC	854318007394

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official GTDaudio website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

You can visit the GTDaudio store for more information: [GTDaudio Official Store](#)

