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XTRONS DWH005

XTRONS DWH005 Infrared Wireless Dual Channel Headphones User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the XTRONS DWH005 Infrared Wireless Dual Channel Headphones. Designed for in-car entertainment systems, these headphones offer a private and high-quality audio experience for passengers. Please read this manual thoroughly before use to ensure proper operation and maintenance.

2. KEY FEATURES

- **Dual Channel IR Frequencies:** Supports two distinct infrared channels for simultaneous audio streams.
- **Folding Design:** Allows for compact storage and portability.
- **Lightweight Construction:** Ensures comfort during extended wear.
- **Adjustable Headband and Cushions:** Provides a secure and comfortable fit for various head sizes.
- **Noise Reduction System:** Delivers clear audio by minimizing ambient noise.
- **Automatic Power Off:** Conserves battery life by turning off when no IR signal is detected.
- **Touch Controls:** Intuitive controls for power, channel selection, and volume.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your XTRONS DWH005 headphones.

★ Simple to use A-B switch allows users to select their preferred channels

- ①③ Infrared Light Sensor
- ② Battery Cover
- ④ Channel AB & ON/OFF
- ⑤ Power LED Indicator
- ⑥ Volume Up & Down



2 x AAA Battery Supply
(Note: Battery Not Included)

Figure 1: Headphone Controls and Features

This image displays the XTRONS DWH005 headphones with key components labeled for easy identification. These include the Infrared Light Sensor, Battery Cover, Channel A/B ON/OFF switch, Power LED Indicator, and Volume Up & Down controls.

1. **Infrared Light Sensor:** Receives the IR audio signal from the transmitter.
2. **Battery Cover:** Access point for AAA battery installation.
3. **Channel A/B ON/OFF Switch:** Toggles power and selects between Channel A and Channel B.
4. **Power LED Indicator:** Illuminates to show power status.
5. **Volume Up & Down:** Adjusts the audio output level.



Figure 2: Comfortable Ear Cushions

A close-up view of the soft, cushioned earpads designed for maximum comfort during prolonged use.



Figure 3: Folding Design for Easy Storage

This image demonstrates the headphones' folding capability, allowing for convenient storage and portability when not in use.

4. SETUP INSTRUCTIONS

4.1 Battery Installation

The XTRONS DWH005 headphones require 2 x AAA Alkaline batteries (not included) for operation.

1. Locate the battery cover on one of the earcups (refer to Figure 1, item 2).
2. Gently slide or open the battery cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.



Figure 4: Battery Compartment

A detailed view of the battery compartment, showing where to insert the two AAA batteries.

4.2 Connecting to an IR Transmitter

These headphones are designed to work with audio devices that have a built-in infrared (IR) transmitter, commonly found in car entertainment systems.

- Ensure your audio source (e.g., car DVD player) has its IR transmitter enabled.
- Turn on the headphones using the Channel A/B ON/OFF switch (refer to Figure 1, item 3).
- Select the appropriate channel (A or B) on the headphones to match the transmitting channel of your audio source.
- The Power LED Indicator (Figure 1, item 4) will illuminate when a signal is received.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To turn on the headphones, slide the Channel A/B ON/OFF switch to either 'A' or 'B'.
- To turn off the headphones, slide the switch to the 'OFF' position.
- The headphones feature an automatic power-off function to save battery life if no IR signal is detected for a period.

5.2 Channel Selection

The headphones support two IR channels (A and B), allowing multiple users to listen to different audio sources simultaneously if your car system transmits on both channels.

- Slide the Channel A/B ON/OFF switch to 'A' for Channel A or 'B' for Channel B.
- Ensure the selected channel matches the output channel of your IR audio transmitter.

5.3 Volume Adjustment

- Use the Volume Up & Down controls (refer to Figure 1, item 5) to adjust the listening volume to a comfortable level.

6. MAINTENANCE AND CARE

- **Cleaning:** Wipe the headphones with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, fold the headphones for compact storage (refer to Figure 3) and keep them in a dry, cool place away from direct sunlight.
- **Battery Replacement:** Replace batteries promptly when audio quality degrades or the power indicator light dims. Remove batteries if storing for extended periods to prevent leakage.
- **Avoid Damage:** Do not expose headphones to extreme temperatures, moisture, or strong impacts.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound or very low volume.	Batteries are dead or incorrectly installed. Headphones are off. Incorrect channel selected. Volume is too low. No IR signal from the audio source.	Replace batteries or ensure correct polarity. Slide the ON/OFF switch to 'A' or 'B'. Select the correct channel (A or B) to match the transmitter. Increase the volume using the controls. Ensure the IR transmitter of your audio source is on and functioning.
Sound is distorted or intermittent.	Weak IR signal. Obstruction between headphones and transmitter. Low battery power.	Ensure a clear line of sight between headphones and the IR transmitter. Move closer to the IR transmitter. Replace batteries.
Headphones do not turn off automatically.	Still receiving a weak IR signal.	Manually turn off the headphones using the ON/OFF switch.

8. SPECIFICATIONS

Feature	Detail
Model Name	DWH005
Connectivity Technology	Wireless (Infrared)
Wireless Communication Technology	Infrared
System	Infrared Light (850nm)
Carrier Frequency (Channel A)	Left: 2.3 MHz / Right: 2.8 MHz
Carrier Frequency (Channel B)	Left: 3.2 MHz / Right: 3.8 MHz

Feature	Detail
Speaker	40mm Mylar
S/N Ratio	>60dB
Frequency Response	20-15000Hz
Impedance	32 ohm
Channel Separation	>40dB
Distortion	<2%
Working Distance from Sender	<1M
Power Supply	2 x AAA Alkaline Batteries
Age Range (Description)	Kid
Material	Plastic
Compatible Devices	Audio Devices with Built-in IR Transmitter
Cable Feature	Retractable, Without Cable
Control Method	Touch
Noise Control Features	Noise Reduction
Special Feature	Dual Channel, wireless IR headphone
Product Dimensions	7.6 x 5.16 x 2.44 inches
Item Weight	9.2 ounces

9. COMPATIBILITY

The XTRONS DWH005 headphones are designed for universal compatibility with most audio devices featuring a built-in infrared (IR) transmitter. This typically includes:

- In-car DVD players with IR transmission capabilities.
- Overhead monitors with integrated IR transmitters.
- Other audio systems that broadcast sound via analog IR signals.

Note: These headphones are specifically designed for analog IR systems and are not compatible with digital IR systems or portable DVD players that do not have a built-in IR transmitter.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your XTRONS DWH005 headphones, please refer to the official XTRONS website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

