

CUIPPWRJ CUIPPWRJ123

Walksnail Avatar HD Goggles X User Manual

Model: CUIPPWRJ123

Brand: CUIPPWRJ

1. INTRODUCTION

The Walksnail Avatar HD Goggles X are designed to provide an immersive and high-quality FPV (First Person View) experience for drone pilots. Featuring advanced H.265 encoding technology, these goggles deliver crisp 1080p/100FPS video with low latency, ensuring a responsive and clear view during flight. With a wide 50-degree field of view and various customizable options, the Avatar HD Goggles X are built for performance and user comfort.

Key Features:

- Experience immersive visuals with 1080P resolution and 100FPS for stunning clarity.
- Design features a 50-degree field of view, enhancing your flying experience.
- Integrated gyro ensures stable footage, improving your control during flights.
- Connect via Bluetooth for effortless device pairing and control.
- Wi-Fi module allows real-time video transmission for uninterrupted flying sessions.



Figure 1: Front view of the Walksnail Avatar HD Goggles X. The goggles are dark gray with black faceplates, featuring prominent red LED light strips on each side. Four antenna ports are visible, two on the top and two on the bottom, designed for optimal signal reception. The overall design is sleek and robust, indicating a durable build for FPV use.

2. SETUP GUIDE

2.1. Power Connection

The Walksnail Avatar HD Goggles X operate on a voltage input range of 7-26V. Connect a compatible power source to the designated power input port on the goggles. Ensure the power source provides stable voltage within the specified range to prevent damage.

2.2. Diopter and Interpupillary Distance (IPD) Adjustment

Adjust the diopter to match your vision, accommodating users from +2.0 to -6.0. Use the diopter adjustment knob located on the goggles. Simultaneously, adjust the Interpupillary Distance (IPD) between 57-72mm to ensure a clear and comfortable viewing experience. Proper IPD adjustment is crucial for avoiding eye strain and achieving a sharp image.

2.3. Module and Antenna Installation

The goggles feature a replaceable receiver module and a detachable front cover for easy antenna

replacement. Carefully align and insert the receiver module into its dedicated slot. Attach your preferred antennas to the four antenna ports. Ensure all connections are secure for optimal signal reception.

2.4. Lens Replacement

The goggles support replaceable lenses. If you have specific vision needs such as astigmatism, myopia, or require blue light blocking, you can replace the standard lenses with specialized ones. Refer to the lens replacement guide for detailed instructions on safely removing and installing new lenses.

3. OPERATING INSTRUCTIONS

3.1. Powering On/Off

Once connected to a power source, the goggles will power on. The infrared sensing technology allows for efficient screen activation and deactivation, helping to prolong screen life. Simply put on or take off the goggles to trigger the screen's on/off state.

3.2. Video Input and Output

- **AV IN Interface:** The goggles feature an AV IN interface, supporting analog signals for compatibility with various video sources.
- **HDMI Input:** Connect external devices such as computers or gaming consoles via the HDMI input for enhanced flexibility and a wider range of applications.
- **HDMI Output:** Utilize the HDMI output to connect the goggles to other display devices, allowing you to share your flight footage or screen view in real-time with others.

3.3. Sharing Mode

The goggles support a sharing mode, enabling multiple users to view the same FPV feed simultaneously. Refer to the on-screen menu or specific button combinations for activating and managing sharing mode.

3.4. Connectivity (Bluetooth & Wi-Fi)

The goggles include integrated Bluetooth and Wi-Fi modules (features currently in development). These modules will facilitate effortless device pairing, real-time video transmission, and potential future updates or expanded functionalities. Follow on-screen prompts for pairing and connection once these features are fully implemented.

4. MAINTENANCE

4.1. Cleaning

Regularly clean the goggle lenses and exterior with a soft, lint-free cloth. For lenses, use a specialized lens cleaning solution if necessary. Avoid abrasive materials or harsh chemicals that could scratch the surfaces.

4.2. Lens and Module Replacement

The design allows for quick replacement of receiver modules and lenses. This provides a cost-effective way to keep your technology up to date and adapt to specific vision needs. When replacing components, ensure the goggles are powered off and handle parts carefully to avoid damage.

4.3. Antenna Care

The detachable cover facilitates easy replacement of antennas. Inspect antennas regularly for damage. If an antenna is bent or broken, replace it promptly to maintain optimal signal quality.

5. TROUBLESHOOTING

5.1. No Power

- Ensure the power cable is securely connected to both the goggles and the power source.
- Verify that the power source is providing voltage within the 7-26V range.
- Check the power source itself (e.g., battery charge level).

5.2. No Video Signal

- Confirm that the video transmitter on your drone is powered on and functioning correctly.
- Check antenna connections on both the goggles and the drone.
- Ensure the correct video input source (AV IN, HDMI) is selected on the goggles.
- Verify that the receiver module is properly installed.

5.3. Blurred Image

- Adjust the diopter knob until the image is clear for your vision.
- Adjust the Interpupillary Distance (IPD) to match your eye spacing.
- Clean the goggle lenses for any smudges or dust.

6. SPECIFICATIONS

Feature	Value
Weight	290g (14.1 ounces)
Diopter Adjustment	+2 to -6
Field of View (FOV)	50°
Voltage Input	7-26V
Interpupillary Distance (IPD)	57-72mm
Video Resolution	1080P at 100FPS
Connectivity Technology	Bluetooth, Wi-Fi
Connector Type	HDMI
Item Model Number	CUIPPWRJ123
Manufacturer Recommended Age	36 months - 18 years
Compatible Devices	Personal Computer, Smartphone, Tablet

7. WHAT'S IN THE BOX

Upon unboxing your Walksnail Avatar HD Goggles X, you should find the following components:

- Headset (Walksnail Avatar HD Goggles X)
- Lenses (Standard installed, with options for replacement)

- Detachable front cover
- Gyro module (integrated)
- Bluetooth and Wi-Fi module (integrated)

8. WARRANTY AND SUPPORT

For information regarding the standard product warranty, please refer to the documentation provided with your purchase or contact the manufacturer directly. Extended protection plans may be available for purchase to provide additional coverage beyond the standard warranty period. These plans typically cover repairs or replacements for a specified duration.

For technical support, troubleshooting assistance, or inquiries about parts and service, please visit the official CUIPPWRJ website or contact their customer service department. Keep your purchase receipt and product model number (CUIPPWRJ123) handy when seeking support.