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CADDXFPV Avatar HD Camera V2

CADDXFPV Walksnail Avatar HD Camera V2 User Manual

High-Definition FPV Camera System

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your CADDXFPV Walksnail Avatar HD Camera V2. Please read this manual thoroughly before using the product to ensure optimal performance and safety. This camera is designed for FPV (First Person View) applications, offering high-definition video capture and transmission.

2. Product Overview

The CADDXFPV Walksnail Avatar HD Camera V2 is a state-of-the-art FPV camera system featuring a native 4:3 high-definition sensor, capable of recording at 2K 120fps. It supports Gyroflow for stabilized video and boasts an F/2.0 large aperture for superior light intake.



Figure 2.1: Front and side view of the CADDXFPV Walksnail Avatar HD Camera V2, showing the lens and mounting holes.



Figure 2.2: Side view of the CADDXFPV Walksnail Avatar HD Camera V2, highlighting the integrated cable connection.



Figure 2.3: Front view of the CADDXFPV Walksnail Avatar HD Camera V2 lens, showing the F/2.0 aperture.

3. Key Features

- **2K 120fps Video:** Achieves superior image quality with 2K resolution at 120 frames per second.
- **Native 4:3 Sensor:** Provides a wider field of view, capturing more of the surrounding landscape, suitable for both cinematic and FPV racing.
- **Gyroflow Support:** The camera (32G VTX KIT) supports Gyroflow for smooth and stable video quality.
- **F/2.0 Large Aperture:** Increases the amount of incoming light, resulting in brighter and clearer images.
- **160° Wide FOV:** Offers a broad 160-degree field of view for more natural-looking footage.

4. Setup Guide

Follow these steps to properly set up your Avatar HD Camera V2 with your FPV system.

1. **Mounting:** Securely mount the camera to your drone frame using appropriate screws and mounting hardware. Ensure the camera is oriented correctly (usually with the CADDXFPV logo facing up).
2. **Cable Connection:** Connect the camera cable to the compatible Walksnail VTX (Video Transmitter). Ensure the connection is firm and correctly aligned to prevent damage.
3. **Power Connection:** Connect the VTX to your drone's flight controller or power distribution board, ensuring correct voltage input as specified by the VTX manufacturer.

4. **Antenna Connection:** Attach the appropriate antenna to your VTX.
5. **Goggle Pairing:** Power on your FPV goggles and the drone. Follow the Walksnail system's instructions to pair the camera/VTX with your goggles.
6. **Initial Configuration:** Access the OSD (On-Screen Display) menu via your goggles or a dedicated Walksnail app/software to configure camera settings such as resolution, aspect ratio, and Gyroflow parameters.

5. Operating Instructions

Once set up, operating the Avatar HD Camera V2 is straightforward.

- **Power On:** Power on your FPV drone. The camera and VTX will initialize, and video feed should appear in your FPV goggles.
- **OSD Navigation:** Use your remote control sticks (if configured) or dedicated buttons on the VTX to navigate the OSD menu for real-time adjustments.
- **Recording:** If your VTX supports onboard recording, initiate recording through the OSD menu or a configured switch on your remote.
- **Gyroflow Data:** Ensure Gyroflow data is being recorded if you plan to use post-stabilization software. This is typically enabled in the camera/VTX settings.
- **Flight Environment:** Always operate your FPV drone in a safe and open environment, adhering to local regulations.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your camera.

- **Lens Cleaning:** Gently clean the camera lens with a microfiber cloth and lens cleaning solution. Avoid abrasive materials that could scratch the lens.
- **Cable Inspection:** Periodically check the camera cable for any signs of wear, cuts, or damage. Replace damaged cables immediately to prevent signal loss or short circuits.
- **Firmware Updates:** Check the CADDXFPV official website for any available firmware updates for your camera and VTX. Follow the provided instructions carefully for updates.
- **Storage:** Store the camera in a dry, dust-free environment when not in use.
- **Water Resistance:** The camera has an IP54 waterproof rating, meaning it is protected from dust and splashing water. Avoid submerging the camera in water.

7. Troubleshooting

Here are some common issues and their potential solutions.

- **No Video Feed:**
  - Check all cable connections between the camera, VTX, and power source.
  - Ensure the VTX and goggles are powered on and correctly paired.
  - Verify the VTX is transmitting on the correct channel and the goggles are receiving on the same channel.
- **Poor Image Quality/Interference:**
  - Ensure antennas are securely attached to both VTX and goggles.
  - Check for nearby sources of electromagnetic interference.

- Verify the camera lens is clean and free from smudges or dirt.
- Adjust camera settings (e.g., exposure, white balance) via OSD.

- **Gyroflow Data Not Recording:**
  - Confirm that your VTX is the 32G KIT version which supports Gyroflow.
  - Ensure Gyroflow recording is enabled in the camera/VTX settings.
  - Check for sufficient storage space on the VTX's internal memory.
- **Camera Not Powering On:**
  - Verify the power connection to the VTX and ensure the drone's battery is charged.
  - Check for any short circuits or damaged components.

8. Specifications

Feature	Specification
Brand	CADDXFPV
Connectivity Technology	Wireless
Indoor/Outdoor Use	Outdoor
Connectivity Protocol	Wi-Fi
Mounting Type	Wall Mount
Video Capture Resolution	1080p, 1440p (2K)
Number of Items	1
Number of Channels	1
Frame Rate	120 fps
Wattage	5 W
Lens Mount Type	Wall Mount
Room Type	Study
Waterproof Rating	IP54
Control Method	Remote
Screen Size Unit	2 Inch
Communication/Connection Interface	Wireless
Video Pixels	1080p, 1440p
Photo Sensor Technology	CMOS
Number of Units	1.0 Units

Feature	Specification
Manufacturer Name	CADDXFPV
Total Accessories	1
ASIN	B0C1335WQ7
Recommended Rating	4.5 out of 5 stars
Batteries Required	No
Video Capture Format	AVI
Built-in Memory Type	SD (for VTX)

9. Warranty Information

CADDXFPV products typically come with a limited manufacturer's warranty. Please refer to the official CADDXFPV website or your purchase documentation for specific warranty terms, conditions, and duration. Keep your proof of purchase for any warranty claims.

10. Support

For technical support, troubleshooting assistance, or further inquiries, please visit the official CADDXFPV website. You may find FAQs, firmware downloads, and contact information for customer service there. Always ensure you are using the latest firmware for optimal performance.

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