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CADDXFPV Avatar GT Kit

CADDXFPV Walksnail Avatar GT Kit - Air Unit Pro Instruction Manual

INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your CADDXFPV Walksnail Avatar GT Kit - Air Unit Pro. This digital transmission system is designed for FPV drones, offering high-performance features such as a maximum 2W power output, low latency, and a 6km maximum range. It supports 1080P/100fps live view and 1080P/720fps video recording with a 160° FOV, utilizing a 1/1.8-inch Starvis II sensor for clear visuals.

WHAT'S IN THE BOX

The CADDXFPV Walksnail Avatar GT Kit includes the following components:

- Avatar GT Air Unit
- Booster Antenna (x2)
- Coaxial Cable
- Screws
- Gasket
- User Manual (Quick Start Guide)

What's in the Box



Image: The complete contents of the CADDXFPV Walksnail Avatar GT Kit, showing the air unit, camera, two antennas, various cables, screws, and a gasket.

PRODUCT OVERVIEW

The Avatar GT Kit is engineered for robust performance and immersive FPV experiences. It features a powerful digital transmission system with a maximum output of 2W, ensuring stable signal transmission over long distances up to 6km. The system boasts ultra-low latency of 22ms, crucial for high-speed FPV applications.

Max 2W Power

Stronger signal for stable long-range transmission



6km
Transmission Range

11.1-25.2V
Wide Power Input

Note: 2W mode is subject to local radio regulations

Image: A visual representation highlighting the maximum 2W power output, 6km transmission range, and 11.1-25.2V wide power input of the Avatar GT Kit. Note: 2W mode is subject to local radio regulations.

For optimal performance, the air unit incorporates an efficient cooling system with a durable metal shell and integrated heatsink, preventing overheating during extended use. This design ensures stable high-power output and reliability.

Stays Cool, Flies Stable

Metal body with heatsink for stable high-power output



Image: A diagram showing the Avatar GT Air Unit's metal body and integrated heatsink, emphasizing its efficient cooling capabilities for stable operation.

The camera provides a 160° Field of View (FOV) for a wide, immersive perspective, supporting 1080P/100fps live view and 1080P/720fps video recording. An onboard microSD slot supports up to 256GB (card sold separately) for convenient recording of flight footage.

Smooth View, Sharp Capture

Capture Every Detail with Stunning Clarity

1080p/720p
Video Recording

160° FOV
Ultra-Wide



Image: A scenic view demonstrating the 160° ultra-wide FOV and 1080p/720p video recording capabilities of the Avatar GT Kit, capturing extensive detail.

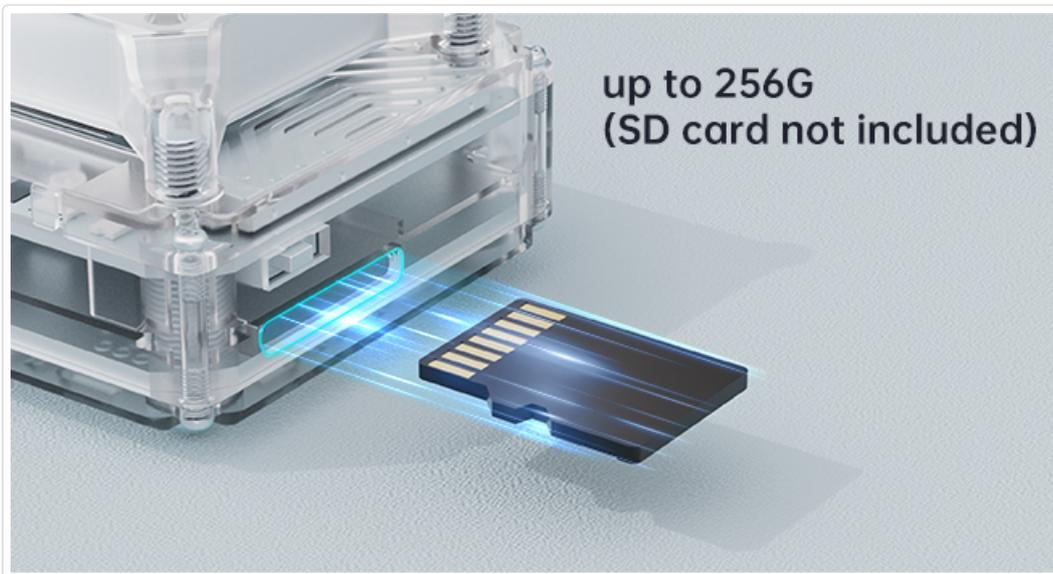


Image: A detailed view of the microSD card slot on the Avatar GT Air Unit, highlighting its capacity for up to 256GB of storage (SD card not included).

SETUP AND INSTALLATION

Component Identification

Refer to the 'What's in the Box' section for a visual guide to all included components. Familiarize yourself with the Avatar GT Air Unit, camera, antennas, and connecting cables before proceeding with installation.

Wiring Diagram

Proper wiring is crucial for the functionality of your Avatar GT Kit. Connect the components according to the diagram below. Ensure correct polarity for power connections (GND, Input Voltage 11.1V-25.2V) and proper UART connections (RX to FC TX, TX to FC RX).



Image: A comprehensive wiring diagram for the Avatar GT Air Unit, detailing connections for 5V output (fan only), UART RX/TX (spare pads), Input Voltage 11.1V-25.2V, GND, and UART RX/TX (connecting to Flight Controller). It also notes the importance of airflow for heat dissipation.

Mounting

The Avatar GT Kit is compatible with 20×20mm and 25.5×25.5mm frames, allowing for flexible integration into a wide range of FPV drones and RC vehicles. Ensure secure mounting to prevent vibration and damage during flight.

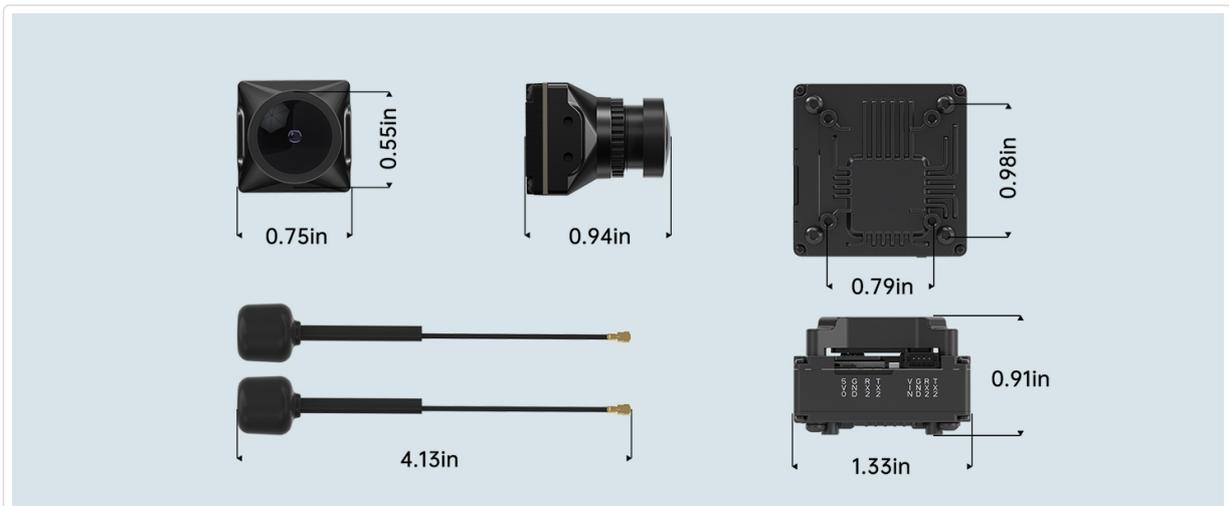


Image: A technical diagram illustrating the precise dimensions of the Avatar GT Kit's camera, air unit, and antennas, crucial for proper mounting and integration into various drone frames.



Image: An illustration showcasing the versatility of the Avatar GT Kit, demonstrating its compatibility and mounting options across various FPV drone frame sizes, ranging from 3 inches to 7 inches.

OPERATING INSTRUCTIONS

Powering On

Ensure the Avatar GT Kit is correctly wired to a power source within the 11.1V-25.2V range. Power on your FPV drone or RC vehicle. The air unit will initiate its startup sequence.

Linking and Binding

The Avatar GT Kit works seamlessly with Walksnail Avatar Goggles X & L. Follow the specific linking instructions provided with your goggles to establish a connection. This process typically involves pressing a bind button on both the air unit and the goggles.

Video: This video demonstrates the immersive first-person view experience achievable with the Walksnail FPV System, showcasing its application in an RC plane flight.

Video Recording

To record your flights, insert a microSD card (up to 256GB, not included) into the dedicated slot on the air unit. The system supports 1080P/720fps video recording. Refer to your goggles' interface for controls to start and stop recording.

Live View and OSD

Experience a clear 1080P/100fps live view through your compatible Walksnail FPV goggles. The system supports Canvas Mode, which displays essential flight data (OSD) directly in your field of view, providing real-time information such as battery voltage, signal strength, and flight time.

Canvas Mode

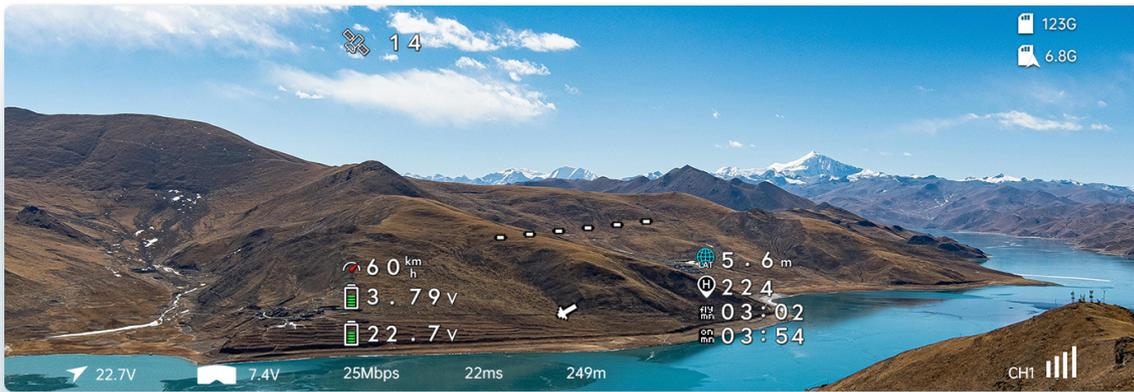


Image: A screenshot illustrating the Canvas Mode, showing real-time flight data such as voltage, signal strength, and channel information overlaid on the FPV live view.

MAINTENANCE

To ensure the longevity and optimal performance of your Avatar GT Kit, regular maintenance is recommended:

- **Cooling System:** The air unit features an integrated heatsink and fan. Ensure the fan is free from obstructions and dust. Periodically clean the fan and heatsink to maintain efficient heat dissipation.
- **Connections:** Regularly inspect all cable connections for wear, damage, or loose contacts. Secure any loose connections to prevent signal interruptions.
- **Physical Inspection:** Check the camera lens for dirt or scratches. Clean with a soft, lint-free cloth. Inspect the antennas for any bends or damage.

TROUBLESHOOTING

If you encounter issues with your CADDXFPV Walksnail Avatar GT Kit, refer to the following common problems and solutions:

- **No Video Signal / Won't Bind:**
 - Verify all wiring connections, especially power and UART, are correct and secure.
 - Ensure the air unit is receiving adequate power within the specified voltage range (11.1V-25.2V).
 - Confirm that your Walksnail Avatar Goggles are powered on and set to the correct channel/frequency.
 - Attempt the linking/binding procedure again, following the instructions for your specific goggles.
- **Overheating / Signal Loss:**
 - Ensure the air unit has sufficient airflow. Avoid mounting it in enclosed spaces without ventilation.
 - Check for any obstructions to the cooling fan.
 - Verify that the input voltage is stable and within the recommended range. Fluctuations can affect performance.
 - Ensure antennas are securely connected and not damaged.
- **Recording Issues (Corrupted Files / No Recording):**

- Ensure a compatible microSD card (up to 256GB) is inserted correctly.
- Format the microSD card within the air unit's settings (if available) or on a computer.
- Try a different, high-quality microSD card.

SPECIFICATIONS

Feature	Specification
Brand	CADDXFPV
Model Name	Avatar GT Kit
Special Features	First Person View (FPV), Gyroscopic Stabilization, High Sensitivity Sensor, Integrated Camera, Night Vision Camera
Color	Black
Video Capture Resolution	1080p, 720p
Connectivity Technology	RF, Wi-Fi
Item Weight	0.09 Pounds
Video Capture Format	MP4
Remote Control Technology	RF
Control Type	Remote Control
Maximum Range	6000 Meters
Wireless Communication Technology	Wi-Fi, RF
Battery Cell Composition	Lithium Polymer (Not included with kit)
Optical Sensor Technology	CMOS
Includes Rechargeable Battery	Yes (for some components, not main power)
Media Type	video
Manufacturer	CADDXFPV
Part Number	WN12-2W14B-US
Material	Aluminum
Item Dimensions L x W x H	6.1"L x 2.6"W x 0.98"H

WARRANTY AND SUPPORT

CADDXFPV offers a 360-day warranty on this product. For returns or exchanges, a 30-day policy is typically in place. For any technical assistance, troubleshooting, or warranty claims, please contact CADDXFPV customer support.

- **Customer Support Email:** Service@caddxfpv.com
- **Official Website:** For additional resources and the latest firmware updates, please visit the official CADDXFPV website. You can scan the QR code found in the quick start guide or visit <https://scan.erweicaihong.cn/WQ3E>.

CADDXFPV is committed to providing reliable, high-performance drone technology, backed by over 8 years of expertise and trusted by pilots worldwide.