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CADDXFPV Moonlight Kit

CADDXFPV Walksnail Moonlight Kit - FPV Drone Air Unit Pro Instruction Manual

Model: Moonlight Kit (WN11-4K14B-US)

1. Introduction

The CADDXFPV Walksnail Moonlight Kit is an advanced digital transmission system designed for FPV drones. It features a starlight sensor for exceptional low-light performance, 4K/60fps video recording capabilities, and electronic image stabilization for smooth footage. This manual provides essential information for the proper setup, operation, and maintenance of your Moonlight Kit.

Key Features:

- Exceptional Night Vision: Equipped with a 1/1.8-inch starlight sensor for detailed low-light capture.
- Professional-Quality Recording: Supports 4K/60fps, 2.7K, or 1080P at 150Mbps.
- Smooth & Stable Videos: Features built-in Electronic Image Stabilization (EIS) and Gyroflow support, with silicone damping pads to reduce vibration.
- Optimized Daylight Shooting: Includes an ND8 filter to prevent overexposure in bright conditions.
- Seamless FPV Experience: Fully compatible with Walksnail Avatar Goggles X and L for real-time viewing.

2. WHAT'S IN THE BOX

- Moonlight Air Unit Pro
- Booster Antenna
- Coaxial Cable
- Screws
- Gasket
- User Manual (this document)



Image: Overview of the CADDXFPV Walksnail Moonlight Kit components, including the air unit, camera, and antennas.

3. SETUP AND INSTALLATION

3.1 Component Assembly

Follow these steps to assemble the Moonlight Kit components:

- 1. Connect the coaxial cable from the camera to the air unit. Ensure a secure connection.
- 2. Attach the two booster antennas to the air unit.
- 3. Mount the assembled air unit and camera onto your FPV drone frame using the provided screws and gasket. Refer to your drone's frame manual for specific mounting points.



Image: The CADDXFPV Walksnail Moonlight Kit fully assembled, showing the air unit, camera, and dual antennas connected.

3.2 Wiring Connections

Connect the Moonlight Air Unit Pro to your flight controller. The unit requires a power input of 7.4V-25.2V. Ensure correct polarity to prevent damage.



Image: Detailed wiring diagram for connecting the Moonlight Air Unit Pro to a flight controller. Note the VCC, GND, Uart RX, and Uart TX connections. The USB cable is primarily for upgrades.

3.3 Camera Angle Adjustment

Adjust the camera angle to suit your flying style. For FPV racing, a higher angle is often preferred, while cinematic flights may benefit from a lower angle. Ensure the ND8 filter is installed for bright daylight conditions.

Ultra-Smooth Footage

Built-in EIS & Gyroflow Supported for Pro-Grade Stabilization





Image: The ND8 filter attached to the Moonlight camera lens, used to prevent overexposure in bright lighting.

4. OPERATING INSTRUCTIONS

4.1 Power On and Binding

- 1. Power on your FPV drone.
- 2. Power on your Walksnail Avatar Goggles (X or L).
- 3. Initiate the binding process on both the Moonlight Air Unit Pro and your goggles according to the goggles' instruction manual.

4.2 Video Recording

The Moonlight Kit supports 4K/60fps, 2.7K, or 1080P video recording at 150Mbps. Insert a high-speed microSD card (not included) into the air unit's card slot before flight. Recording can typically be initiated and stopped via a button on the air unit or through your FPV goggles' OSD menu.

Your browser does not support the video tag.

Video: Demonstrates the 4K/60fps video recording capability of the Walksnail Moonlight Kit, showcasing clear and detailed footage.

4.3 Image Stabilization (EIS & Gyroflow)

The built-in Electronic Image Stabilization (EIS) and Gyroflow support help achieve smooth and stable video footage. Ensure these features are enabled in your system settings for optimal results.



Image: Visual comparison illustrating the effectiveness of image stabilization, showing a blurred image on the left and a clear, stable image on the right.

4.4 Low Latency and Long Range Transmission

The Moonlight Kit provides 22ms low latency and up to 4km maximum range for a responsive and immersive FPV experience. Ensure antennas are properly positioned for optimal signal strength.

Your browser does not support the video tag.

Video: Showcases the first-person view immersion provided by the Walksnail FPV System, highlighting its low latency and stable transmission.

5. MAINTENANCE

- · Regularly inspect all cables and connectors for wear or damage.
- Keep the air unit and camera clean from dust and debris. Use a soft, dry cloth.

- Ensure the cooling fan on the air unit is free from obstructions to prevent overheating.
- Store the kit in a dry, cool environment when not in use.

6. TROUBLESHOOTING

6.1 Overheating Issues

If the unit overheats, ensure adequate airflow around the air unit. Verify the cooling fan is operational and not obstructed. Reduce power output if possible, especially during ground testing or prolonged idle periods.

6.2 Signal Loss or Poor Video Quality

- · Check antenna connections on both the air unit and goggles.
- Ensure antennas are not obstructed by carbon fiber or other materials.
- Verify that the air unit's power output is set appropriately for your flying environment and legal limits.
- Minimize interference from other 5.8GHz devices.

6.3 Recording Problems

- Ensure a compatible, high-speed microSD card is inserted correctly.
- Format the microSD card regularly.
- Check available storage space on the microSD card.

7. Specifications

Feature	Detail
Brand	CADDXFPV
Model Name	Moonlight Kit
Special Features	First Person View (FPV), Gyroscopic Stabilization, High Sensitivity Sensor, Integrated Camera, Night Vision Camera
Video Capture Resolution	1080p, 4K, 720p
Connectivity Technology	Radio Frequency
Video Capture Format	MP4
Maximum Range	4000 Meters
Optical Sensor Technology	CMOS
Product Dimensions	6.1"L x 2.6"W x 0.98"H
Item Weight	2.39 ounces

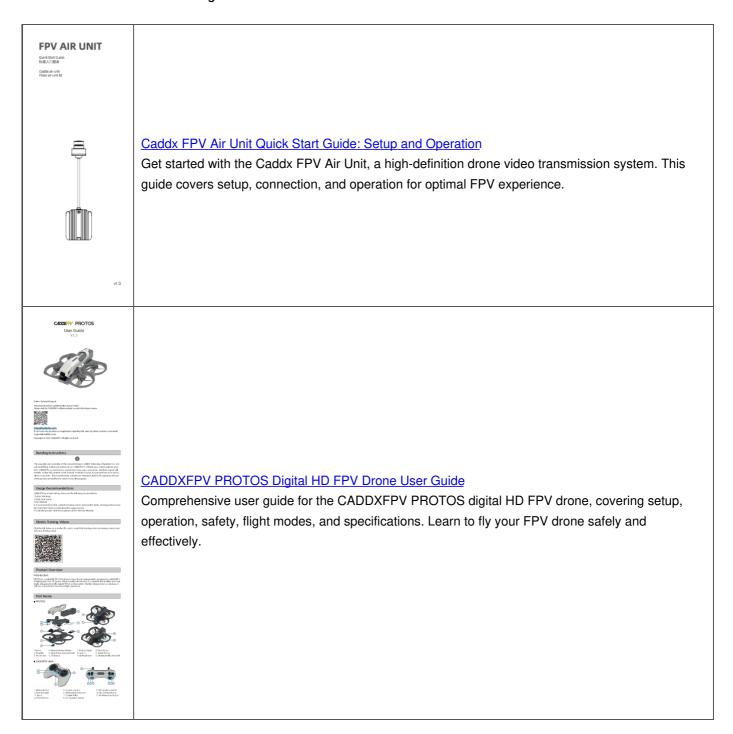
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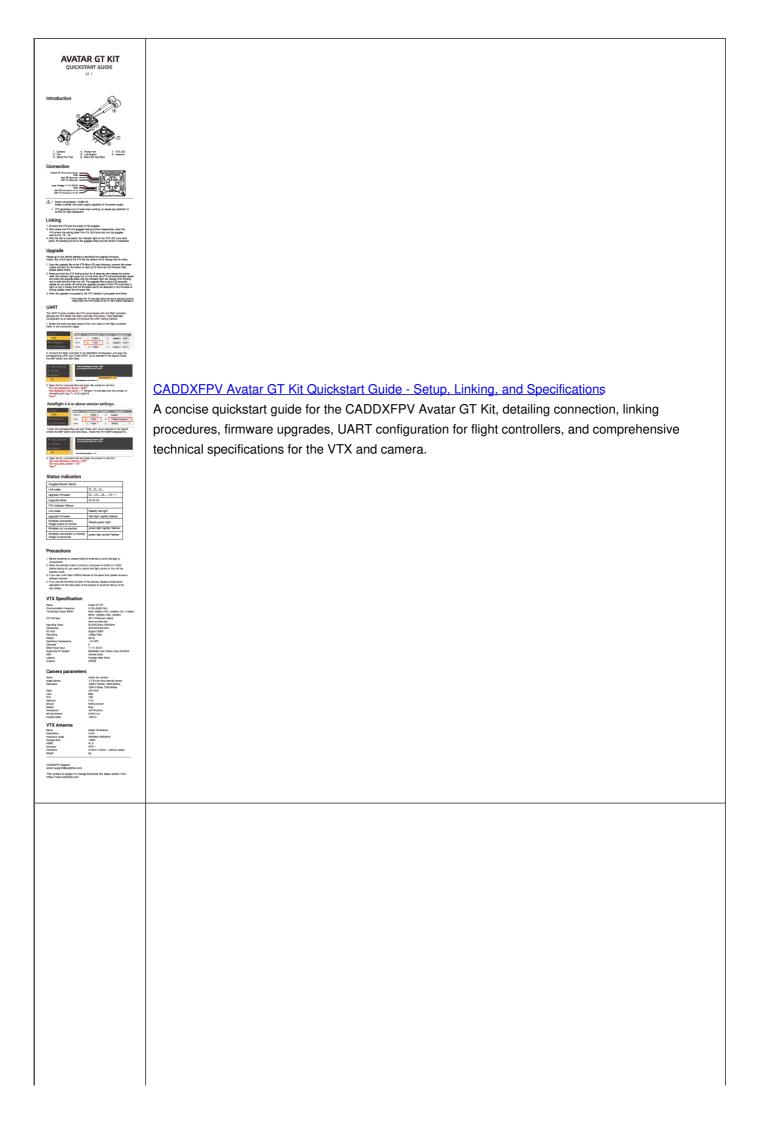
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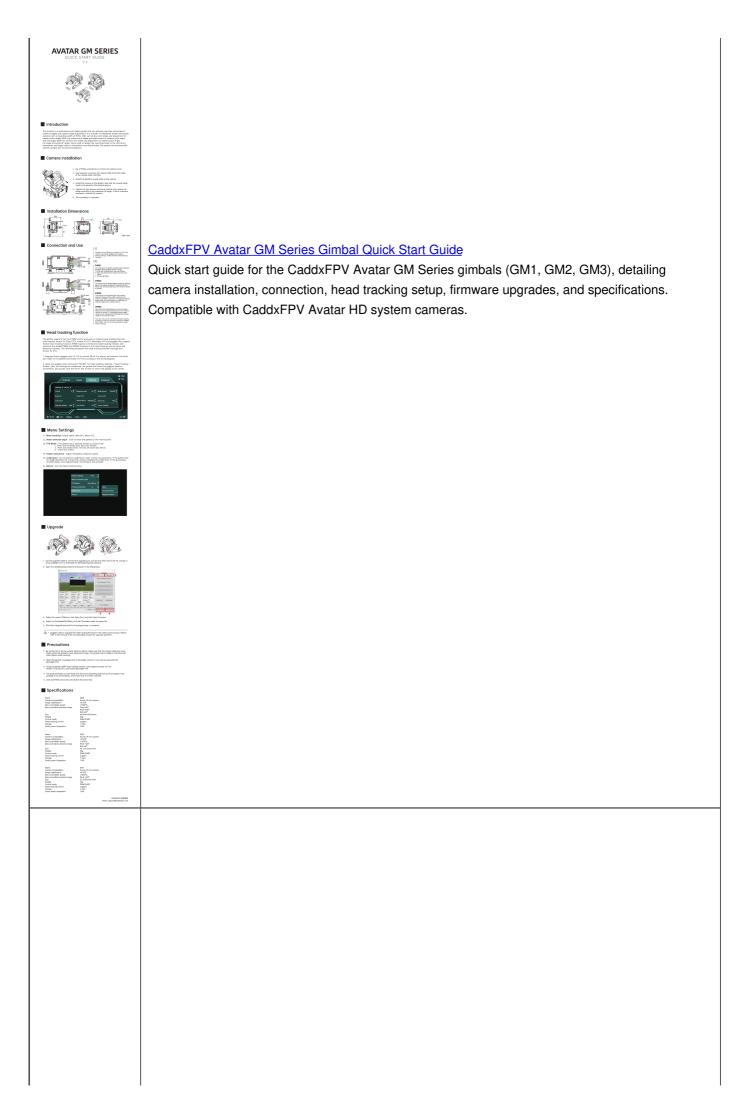
8. WARRANTY AND SUPPORT

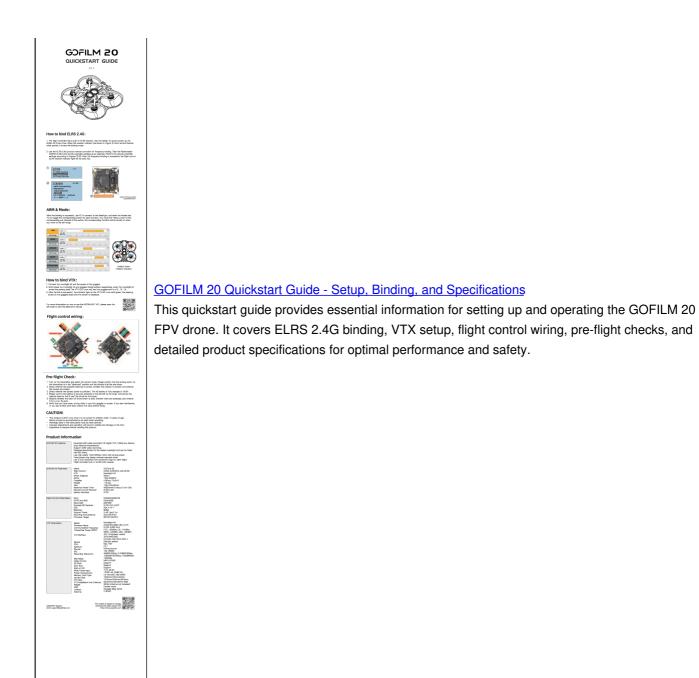
For warranty information and technical support, please refer to the official CADDXFPV website or contact your retailer. Keep your proof of purchase for any warranty claims.

Related Documents - Moonlight Kit











CADDXFPV VISTA KIT Quick Start Guide

A comprehensive quick start guide for the CADDXFPV VISTA KIT, detailing its features, connection, activation, linking, OSD settings, specifications, and camera parameters for FPV drone systems.