



Manuals.plus /

› LuxZilvia /

› LuxZilvia O4 Air Unit Pro User Manual

LuxZilvia O4Pro

LuxZilvia O4 Air Unit Pro User Manual

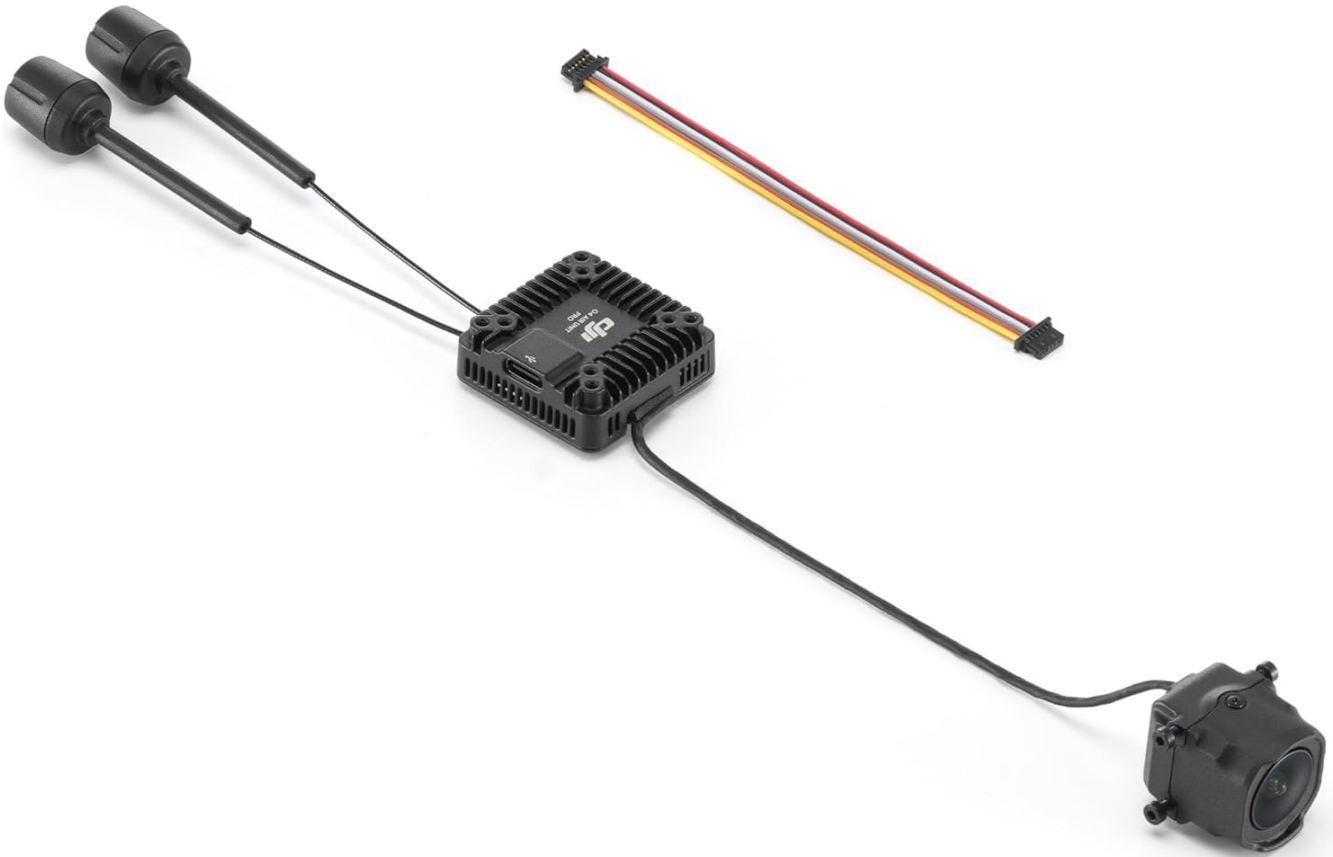
Comprehensive Guide for Setup, Operation, and Maintenance

PRODUCT OVERVIEW

The LuxZilvia O4 Air Unit Pro is an advanced video transmission system designed for FPV drones, offering high-quality video, extended range, and low latency. It integrates a camera module, transmission module, and antennas to provide a comprehensive solution for aerial video capture and real-time viewing.

- **New Heights in Transmission System:** Equipped with DJI O4 video transmission system, achieving ultra-low latency for more responsive controls. Max transmission distance of 15 kilometers, with automatic frequency selection for stable signals.
- **Smooth HD Video:** Capable of capturing 4K/60fps video. Utilizes H.265 video encoding and supports high-frame-rate transmission at 1080p/100fps for clear and smooth real-time imagery.
- **New Racing Mode:** Introduces a racing mode with video transmission latency as low as 15 milliseconds. Supports up to eight aircraft simultaneously.
- **Upgraded Video Output:** Features a 1/1.3-inch image sensor, supporting 4K/120fps video recording, eliminating the need for an external action camera for ultra-wide-angle, high-definition footage.
- **Moderate Brightness:** Compatible with DJI Avata 2 ND filter sets (ND8/16/32) to ensure balanced exposure and true-to-life colors even in bright lighting conditions.

WHAT'S IN THE BOX



This image displays all components included in the O4 Air Unit Pro package: the main transmission module, the camera module, two antennas, and the necessary 3-in-1 connection cable.

- O4 Air Unit Pro Camera Module × 1
- O4 Air Unit Pro Transmission Module × 1
- O4 Air Unit Pro Antenna × 2
- O4 Air Unit Pro 3-in-1 Cable × 1

COMPATIBILITY

The O4 Air Unit Pro is designed to be compatible with specific DJI Goggles and Remote Controllers, offering two main adaptation plans:

Adaptation Plan 1:

- For DJI Goggles 3
- For DJI Goggles N3
- For DJI FPV Remote Controller 3

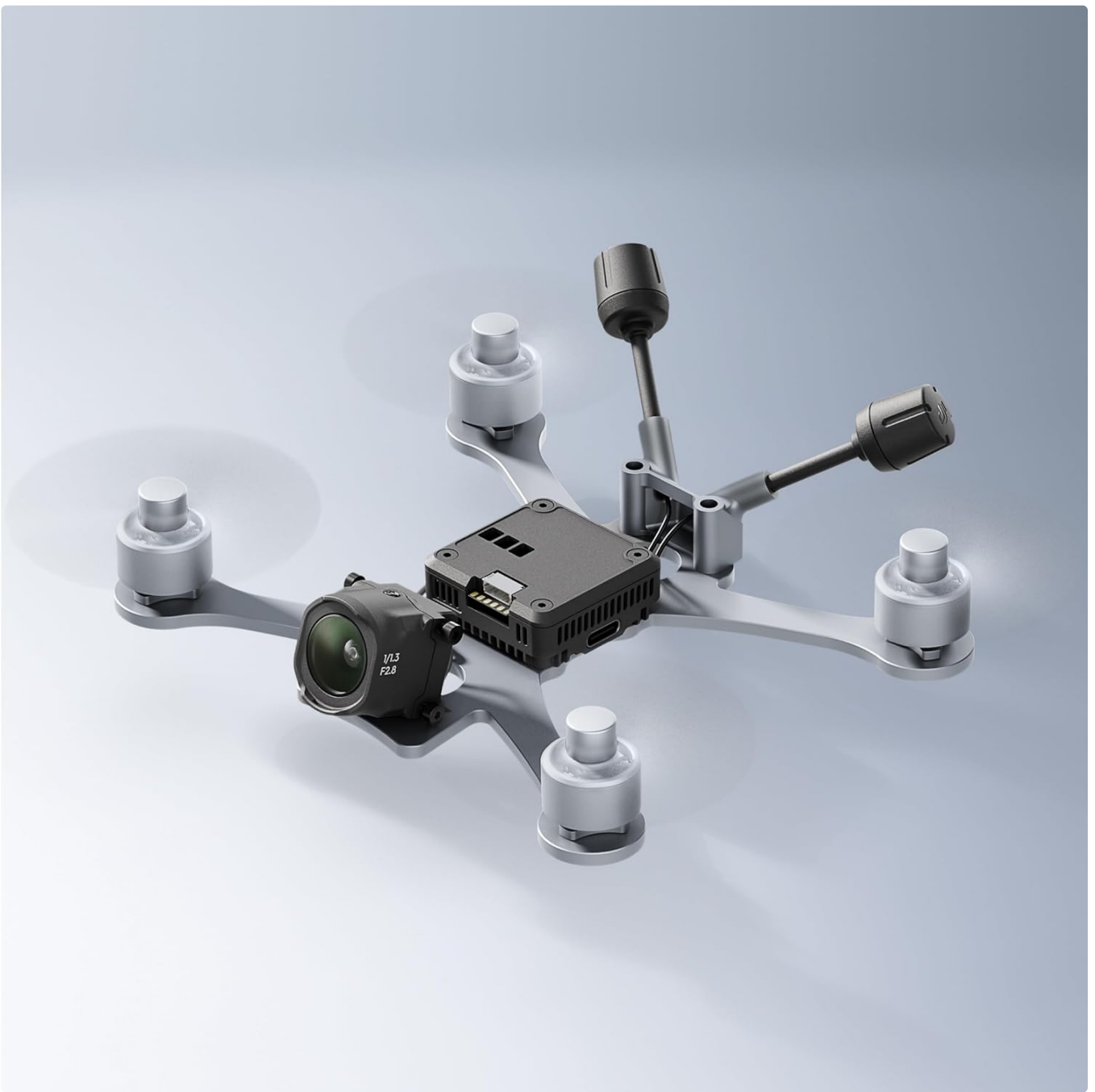
Adaptation Plan 2:

- For DJI Goggles 2
- For DJI Goggles Integra
- For DJI FPV Remote Controller 2

SETUP

Proper setup of the O4 Air Unit Pro is crucial for optimal performance. Follow these steps for installation and initial configuration:

1. **Mounting the Transmission Module:** Securely attach the O4 Air Unit Pro Transmission Module to your drone frame. Ensure it is placed in a location that allows for adequate airflow for cooling and does not obstruct other components.
2. **Connecting the Camera Module:** Connect the O4 Air Unit Pro Camera Module to the transmission module using the provided 3-in-1 cable. Ensure the connection is firm and correctly oriented.
3. **Attaching Antennas:** Connect the two O4 Air Unit Pro Antennas to the transmission module. Position the antennas to maximize signal reception, typically angled away from each other.
4. **Power Connection:** Connect the 3-in-1 cable's power lead to your drone's power distribution board or flight controller, ensuring correct voltage and polarity. Refer to your drone's manual for specific power requirements.
5. **Initial Power On and Binding:** Power on your drone. Follow the binding procedure outlined in the DJI Goggles and Remote Controller manuals to establish a connection with the O4 Air Unit Pro.



This image illustrates the O4 Air Unit Pro transmission module and camera module installed on a typical FPV drone frame, with antennas positioned for optimal signal.



A detailed view of the O4 Air Unit Pro's main components, including the central transmission unit, the camera, and the two signal antennas.

OPERATING INSTRUCTIONS

Once the O4 Air Unit Pro is set up and bound, you can begin operation. The system offers various modes and features for enhanced flight and video experience.

Video Transmission and Recording:

- **Live View:** The system provides a 1080p/100fps H.265 live view quality to your compatible DJI Goggles.
- **Recording:** The integrated camera supports 4K/120fps video recording. Ensure a compatible microSD card is inserted into the transmission module for recording.
- **Transmission Range:** The maximum transmission distance is 15 kilometers. Maintain line of sight for optimal signal stability.

Racing Mode:

- Activate Racing Mode through your DJI Goggles settings for reduced latency (as low as 15 milliseconds).
- This mode is optimized for multi-aircraft racing, supporting up to eight aircraft simultaneously.

Camera Settings:

- Access camera settings via your connected DJI Goggles to adjust resolution, frame rate, exposure, and other parameters.
- Consider using DJI Avata 2 ND filter sets (ND8/16/32) in bright conditions for balanced exposure and color accuracy.

MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your O4 Air Unit Pro.

- **Cleaning:** Gently clean the camera lens and transmission module housing with a soft, dry, lint-free cloth. Avoid abrasive materials or harsh chemicals.
- **Connection Check:** Periodically inspect all cable connections (3-in-1 cable, antenna connections) for wear, damage, or looseness.
- **Firmware Updates:** Check the official DJI website or app for firmware updates for the O4 Air Unit Pro, DJI Goggles, and Remote Controller. Keep all components updated for optimal compatibility and performance.
- **Storage:** When not in use, store the O4 Air Unit Pro in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

This section addresses common issues you might encounter with the O4 Air Unit Pro.

| Problem | Possible Cause | Solution |
|-------------------------------------|---|--|
| No video signal in goggles. | Loose cable connection, unpowered unit, binding issue, interference. | Check all cable connections. Ensure the Air Unit Pro is powered. Re-bind the Air Unit Pro with your goggles and remote controller. Move to an area with less signal interference. |
| Poor video quality or signal drops. | Antenna obstruction/damage, excessive distance, high interference, outdated firmware. | Ensure antennas are properly positioned and undamaged. Stay within the recommended transmission range. Avoid areas with strong Wi-Fi or RF interference. Update firmware for all components. |
| Unit not powering on. | Incorrect power connection, insufficient power supply, damaged unit. | Verify power cable connection and polarity. Ensure your drone's power supply meets the unit's requirements. If issues persist, contact support. |
| Cannot record 4K/120fps video. | Incompatible or full microSD card, incorrect camera settings. | Use a high-speed, compatible microSD card (e.g., U3/V30 or higher). Ensure sufficient storage space. Check camera settings in goggles to confirm 4K/120fps is selected. |

SPECIFICATIONS

| Feature | Detail |
|---------------------------|---|
| Brand | LuxZilvia |
| Model Name | O4 Air Unit Pro |
| Special Feature | Lightweight, Portable |
| Color | Black |
| Video Capture Resolution | 4K |
| Connectivity Technology | HDMI (for output), Wi-Fi, RF (for transmission) |
| Skill Level | Professional |
| Item Weight | 1.09 Ounces (approx. 30.9 grams) |
| Video Capture Format | MP4 |
| Control Type | Remote Control |
| Maximum Range | 15 Kilometers |
| Material | Carbon Fiber |
| Optical Sensor Technology | CMOS (1/1.3-inch image sensor) |
| Product Dimensions | 1.32"L x 1.32"W x 0.51"H (approx. 33.5mm x 33.5mm x 13mm) |

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official LuxZilvia or DJI support channels. Keep your purchase receipt as proof of purchase for warranty claims.

- **Official Website:** Visit the LuxZilvia or DJI official website for the most up-to-date warranty policies and support resources.
- **Customer Service:** Contact customer service for assistance with product issues, troubleshooting, or repair services.
- **Firmware Updates:** Regularly check for and install the latest firmware updates to ensure optimal performance and access to new features.

