

DJI V2

DJI FPV Goggles V2 User Manual

Model: V2

1. INTRODUCTION

The DJI FPV Goggles V2 are designed to provide an immersive first-person view experience for drone racing and FPV flight. These goggles feature high-resolution displays, low-latency video transmission, and a comfortable design, making them an essential component for advanced drone piloting.



Figure 1.1: Main view of the DJI FPV Goggles V2.

2. WHAT'S IN THE BOX

Upon unboxing your DJI FPV Goggles V2, ensure all the following components are present:

- DJI FPV Goggles V2
- Power Cable (XT60 to barrel plug) - *Note: Some packages may not include this cable.*
- Head Strap
- USB-C Cable
- Antennas (4x)
- Goggles Battery

3. SAFETY INFORMATION

Before operating the DJI FPV Goggles V2, please read and understand the following safety guidelines to ensure safe and proper use:

- Always operate the goggles in a safe environment, away from obstacles and people.
- Ensure the battery is fully charged and properly connected before use.
- Avoid prolonged exposure to direct sunlight on the goggle lenses, as this can damage the internal screens.
- Do not disassemble or modify the goggles, as this will void the warranty and may cause damage.
- Keep the goggles away from water and moisture.
- Use only official DJI accessories and replacement parts.

4. COMPONENTS OVERVIEW

Familiarize yourself with the various components and their functions on your DJI FPV Goggles V2.

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Video 4.1: A 35-second overview showcasing the DJI FPV Goggles V2 from various angles, highlighting its design and key features.

4.1 Front View



Figure 4.1.1: The front of the goggles, showing the four antenna ports for optimal signal reception.

4.2 Inside View (Lenses)



Figure 4.2.1: The internal view of the goggles, displaying the high-resolution screens and adjustable lenses for clear vision.

4.3 Side View with Ports



Figure 4.3.1: Side view showing the USB-C port for data transfer and charging, and the MicroSD card slot for recording flight footage.

4.4 Other Side View



Figure 4.4.1: The opposite side view of the goggles, showing the strap attachment point and overall profile.

4.5 Top View



Figure 4.5.1: Top view of the goggles, illustrating the overall ergonomic design and strap attachment points.

4.6 Bottom View



Figure 4.6.1: The bottom view of the goggles, showing ventilation and additional structural details.

4.7 Controls and Indicators

The goggles feature intuitive controls and indicators for easy operation:

- **Power Button:** Located on the side, used to power the goggles on/off.
- **Record Button:** Initiates and stops video recording to the MicroSD card.
- **Back Button:** Navigates back through menus.
- **5D Button:** Multi-directional button for menu navigation and selection.
- **Status Indicator LED:** Provides visual feedback on power status, recording, and errors.



Figure 4.7.1: Top-down view highlighting the control buttons and indicator lights on the goggles.

5. SETUP

Follow these steps for the initial setup of your DJI FPV Goggles V2:

1. **Charge the Battery:** Connect the provided battery to a power source using the USB-C cable. Ensure the battery is fully charged before first use.
2. **Attach Antennas:** Screw the four antennas firmly into their respective ports on the front of the goggles.
3. **Install Head Strap:** Attach the head strap to the designated clips on the sides and top of the goggles. Adjust for a comfortable and secure fit.
4. **Insert MicroSD Card (Optional):** If you plan to record footage, insert a compatible MicroSD card into the slot on the side of the goggles.
5. **Power On:** Press and hold the power button on the goggles until the indicator light illuminates and you hear a startup sound.
6. **Binding:** Follow the instructions in your drone's manual to bind the goggles to your DJI FPV drone or air unit. This

typically involves pressing a bind button on both devices.

6. OPERATING

Once set up, operating your DJI FPV Goggles V2 is straightforward:

1. **Wearing the Goggles:** Place the goggles over your eyes and adjust the head strap for a snug fit that blocks out external light. Ensure the lenses are aligned with your eyes.
2. **Adjusting Focus:** Use the diopter adjustment sliders (if present, or adjust the position of the goggles on your face) to achieve a clear image.
3. **Menu Navigation:** Use the 5D button to navigate through the on-screen display (OSD) menus. Press the button to select an option, and use the Back button to return.
4. **Recording Footage:** Press the Record button once to start recording. The indicator light will change to red. Press it again to stop recording.
5. **Viewing Live Feed:** After binding, the live video feed from your drone will automatically appear on the goggle screens.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your goggles:

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the goggle screens. Do not use abrasive materials or chemical cleaners.
- **Cleaning Exterior:** Wipe the exterior of the goggles with a clean, damp cloth.
- **Storage:** Store the goggles in a cool, dry place, away from direct sunlight and extreme temperatures. Use the original packaging or a protective case to prevent dust and scratches.
- **Battery Care:** If storing for extended periods, ensure the battery is charged to approximately 50-60% to maintain battery health.

8. TROUBLESHOOTING

Refer to the following common issues and their solutions:

Problem	Possible Cause	Solution
No video feed	Goggles not bound to drone/air unit; weak signal; drone not powered on.	Ensure drone is on and within range. Re-bind goggles if necessary. Check antenna connections.
Goggles not powering on	Battery depleted; faulty power cable.	Charge the battery. Check power cable connection.

Problem	Possible Cause	Solution
Blurry image	Lenses dirty; focus not adjusted; incorrect IPD.	Clean lenses. Adjust focus and inter-pupillary distance (IPD) for clarity.
Recording issues	MicroSD card full or corrupted; card not inserted correctly.	Format or replace MicroSD card. Ensure card is fully inserted.

9. SPECIFICATIONS

Key technical specifications for the DJI FPV Goggles V2:

Feature	Detail
Product Dimensions	19.69 x 19.69 x 11.02 inches
Item Weight	14.8 ounces
Model Number	V2
Batteries	1 Lithium Polymer battery required (included)
Manufacturer	DJI
First Available	January 11, 2021

10. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official DJI website or the comprehensive user guide provided by the manufacturer.

You can access the official User Guide (PDF) [here](#).