DJI 6941565980120

DJI Avata 2 User Manual

Model: 6941565980120

Introduction

The DJI Avata 2 is an advanced FPV drone designed for an immersive flight experience. Featuring intuitive motion control, a high-quality 4K camera, and built-in propeller guards, it offers both thrilling performance and enhanced safety. This manual will guide you through the essential steps to set up, operate, and maintain your DJI Avata 2.

Please read this manual thoroughly before first use to ensure safe and proper operation. Always observe local laws and regulations regarding drone operation.

What's in the Box

- DJI Avata 2 x1
- DJI Avata 2 Intelligent Flight Battery x3
- DJI RC Motion 3 x1
- DJI Goggles 3 x1
- DJI Avata 2 Two-Way Charging Hub x1
- DJI Sling Bag x1
- Spare Propellers (Pair) x2
- Spare Screws x8
- DJI Avata 2 Gimbal Protector x1
- Type-C to Type-C PD Cable x1
- Screwdriver x1
- DJI RC Motion 3 Lanyard x1
- DJI Goggles 3 Foam Padding x1
- DJI Goggles 3 Additional Forehead Pad x1
- DJI Goggles 3 -2.0D Corrective Lenses (Pair) x1
- USB-C OTG Cable x1



Figure 1: All components included in the DJI Avata 2 Fly More Combo package.

Setup

1. Charging Batteries

Ensure all components (drone, RC Motion 3, Goggles 3, Intelligent Flight Batteries) are fully charged before first use. Use the provided Two-Way Charging Hub for Intelligent Flight Batteries.

2. DJI Fly App Installation & Activation

The DJI Fly app is required for activation and optimal product usage. Due to platform compatibility issues, the DJI Fly app has been removed from Google Play. Please download the latest version directly from the DJI official website before use.

Activate your DJI Avata 2 through the DJI Fly app upon first connection.

3. Drone Preparation

- Remove the gimbal protector before flight.

- Insert a fully charged Intelligent Flight Battery into the drone.

4. Goggles 3 Setup

- Attach the foam padding and additional forehead pad for comfort.
- If needed, install the -2.0D corrective lenses.
- Adjust the diopters (+2.0 to -6.0 D) using the adjustment knobs on the goggles for clear vision.
- Adjust the interpupillary distance (IPD) for optimal viewing comfort.

5. Linking Components

Power on the drone, DJI Goggles 3, and DJI RC Motion 3. Follow the on-screen prompts in the goggles to link all devices. Ensure all components are linked for full functionality.

Video 1: DJI Avata 2 First Use Guide (Source: DJI Service LLC)

Operating Instructions

1. Basic Flight Controls (DJI RC Motion 3)

- **Takeoff:** Double-press the orange lock button to start the motors. Press and hold the orange lock button to initiate automatic takeoff.
- **Movement:** Gently pull the accelerator trigger to move forward. Tilt your wrist to control direction (left/right/up/down).
- **Braking/Hovering:** Release the accelerator trigger to brake and hover in place.
- **Landing:** Press and hold the orange lock button while hovering to initiate automatic landing.



Figure 2: Intuitive motion control with DJI RC Motion 3.

2. Advanced Flight Modes (One-Push Acrobatics)

The DJI Avata 2 offers easy one-push acrobatic maneuvers for dynamic shots. Use the digital crown on the RC Motion 3 to select the desired maneuver, then push the joystick in the indicated direction.

- **One-Push Flip:** Perform 360° front/back flips.
- **One-Push Roll:** Perform 360° rolls left/right.
- **One-Push 180° Drift:** Execute a quick 180-degree turn.
- **One-Push Power Loop:** Accelerate, ascend, flip, and descend in a continuous loop.



Figure 3: One-Push Acrobatics for easy aerial maneuvers.

3. Camera Operation

- **Video Quality:** Capture stunning 4K/60fps footage.
- **FOV:** Experience a super-wide 155° Field of View.
- **Sensor:** Equipped with a 1/1.3-inch image sensor for enhanced dynamic range and low-light performance.
- **Color Profile:** Record in 10-bit D-Log M for greater flexibility in post-production.
- **Stabilization:** Supports RockSteady and HorizonSteady for smooth footage. Gyroflow stabilization is also available (requires turning off electronic stabilization in goggles menu before flight).

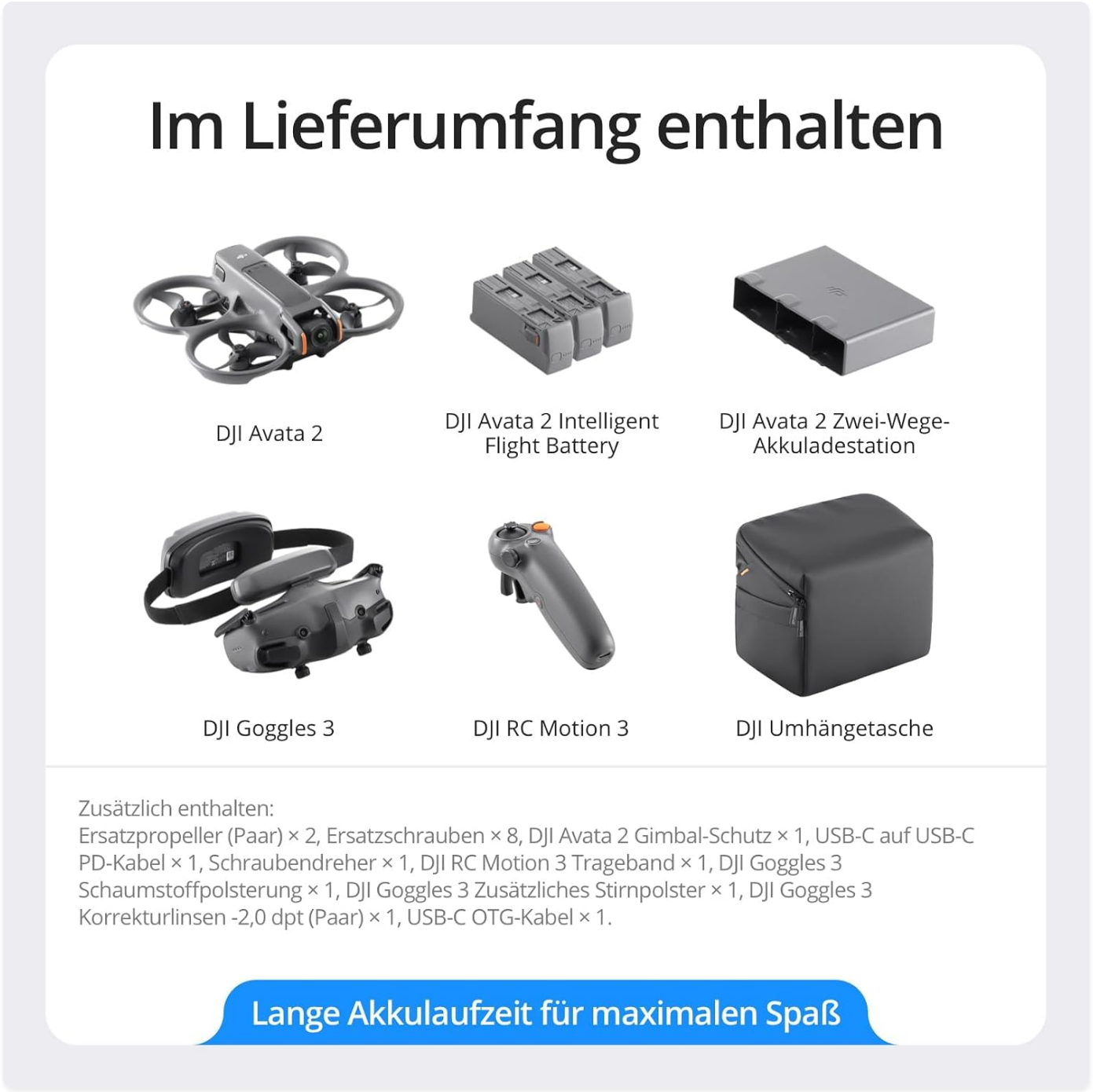


Figure 4: Wide 155° FOV for spectacular aerial visuals.

4. Safety Features

- **Built-in Propeller Guard:** Integrated guards provide increased agility and crash resistance, allowing safer flights in various scenarios.
- **Fisheye Visual Positioning and ToF:** Enhances flight stability and precision.
- **Turtle Mode:** Allows the drone to flip itself back to takeoff position if it lands upside down.
- **One-Click Emergency Brake:** Instantly stops the drone in an emergency.
- **Automatic Return to Home (RTH):** The drone is factory set to automatically perform RTH if the signal is disconnected. Users can change this setting to hover or land before takeoff.
- **FAA Remote ID Compliant:** DJI Avata 2 complies with FAA Remote ID rules.



Figure 5: Built-in Propeller Guard for enhanced safety.

5. Storage & Data Transfer

The DJI Avata 2 comes with 46GB of internal storage, capable of storing approximately 90 minutes of 1080p/60fps video. You can also use a Micro SD card for additional storage.

Use the LightCut app to easily export footage and edit with numerous templates. The app offers seamless integration for content creation.

Video 2: DJI Avata 2 Exporting Footage and Editing with LightCut App (Source: DJI Service LLC)

6. Compatibility

The DJI Avata 2 is compatible with the following DJI Goggles and Remote Controllers:

- **Goggles:** DJI Goggles 3, DJI Goggles N3, DJI Goggles 2, DJI Goggles Integra
- **Remote Controllers:** DJI RC Motion 2, DJI RC Motion 3, DJI FPV Remote Controller 2, DJI FPV Remote Controller 3

Maintenance

1. Battery Care

Always use the provided Two-Way Charging Hub for charging Intelligent Flight Batteries. Do NOT connect the charger, external devices, or insert/remove any batteries during power accumulation.

2. Propeller Replacement

Regularly inspect propellers for damage. Replace any damaged propellers using the provided spare propellers and screwdriver.

3. Firmware Updates

Keep your drone's firmware updated via the DJI Fly app to ensure optimal performance and access to new features.

Troubleshooting

- **DJI Fly App Compatibility:** If you encounter issues, ensure you have downloaded the app from the official DJI website.
- **Signal Disconnection:** The drone is set to automatically RTH upon signal loss. Ensure you have sufficient battery for RTH.
- **Obstacle Avoidance:** In Normal (N) and Sport (S) modes, DJI Avata 2 supports downward and backward visual positioning. Always be aware of your surroundings as the drone does not have full obstacle avoidance in all directions.
- **Windy Conditions:** While stable, extreme wind may affect flight performance. Fly in calm conditions for best results.

Specifications

- **Model Name:** DJI Avata 2
- **Item Weight:** 1.97 Kilograms (4.32 pounds)
- **Product Dimensions:** 8.35"L x 7.28"W x 2.52"H
- **Video Capture Resolution:** 4K
- **Effective Still Resolution:** 12 MP
- **Maximum Flight Time:** Up to 23 Minutes
- **Maximum Range:** 13 Kilometers
- **Battery Capacity:** 2600 Milliamp Hours
- **Material:** Plastic
- **Connectivity Technology:** Bluetooth, Wi-Fi

Warranty and Support

For detailed warranty information, user guides, and safety information, please refer to the official PDF documents:

- Warranty (PDF)
- User Manual (PDF)
- Safety Information (PDF)
- User Guide (PDF)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question