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DJI Mavic 4 Pro

DJI Mavic 4 Pro User Manual

Comprehensive Guide for Operation, Maintenance, and Troubleshooting

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your DJI Mavic 4 Pro drone. Please read this manual thoroughly before operating the aircraft to ensure proper usage and to prevent damage or injury.

The DJI Mavic 4 Pro is an advanced aerial platform designed for high-quality photography and videography, offering intelligent flight features and superior performance.

2. PRODUCT OVERVIEW

2.1 Components

The DJI Mavic 4 Pro system typically includes the aircraft, remote controller, intelligent flight battery, propellers, and charging accessories.

DJI Mavic 4 Pro

User Guide



Figure 1: DJI Mavic 4 Pro Aircraft. This image displays the drone with its four propellers extended, showcasing the camera gimbal at the front.

2.2 Key Features

- **Advanced Camera System:** High-resolution sensor for stunning photos and videos.
- **Omnidirectional Obstacle Sensing:** Enhanced safety with sensors detecting obstacles in multiple directions.
- **Extended Flight Time:** Optimized battery for longer aerial operations.

- **Intelligent Flight Modes:** Automated flight paths and creative shooting options.
- **Portable and Foldable Design:** Easy to transport and deploy.

3. SETUP AND PREPARATION

3.1 Unboxing and Assembly

1. Carefully remove all components from the packaging.
2. Unfold the aircraft arms and propellers. Ensure propellers are securely attached.
3. Attach the landing gear (if detachable).

3.2 Charging Batteries

Charge the Intelligent Flight Battery and the remote controller using the provided charger. Ensure all batteries are fully charged before each flight.

- Connect the charger to a power outlet.
- Insert the battery into the charging hub or directly into the aircraft for charging.
- Monitor the charging indicator lights.

3.3 App Installation and Activation

Download and install the official DJI Fly app on your mobile device. Follow the in-app instructions to activate your aircraft and link it to your DJI account.

3.4 Compass Calibration

Perform a compass calibration before the first flight and whenever flying in a new location or if the app prompts you. Follow the on-screen instructions in the DJI Fly app.

4. OPERATION

4.1 Pre-Flight Checklist

- Ensure all batteries are fully charged.
- Check propellers for damage and ensure they are securely attached.
- Verify the camera gimbal protector is removed.
- Confirm sufficient GPS signal and clear flight path.
- Check local regulations and weather conditions.

4.2 Taking Off and Landing

Automatic Takeoff: In the DJI Fly app, tap the takeoff icon and confirm. The aircraft will ascend to a safe height and hover.

Automatic Landing: Tap the landing icon in the app. The aircraft will descend and land automatically. Ensure the landing area is clear.

Manual Control: Use the remote controller sticks for manual takeoff and landing. Refer to the app for detailed stick configurations.

4.3 Flight Modes

The DJI Mavic 4 Pro offers various flight modes to suit different piloting needs:

- **Normal Mode (N):** Standard flight mode with full obstacle sensing.
- **Sport Mode (S):** Increased speed and responsiveness, obstacle sensing may be limited.
- **Cine Mode (C):** Reduced flight speed for smoother, more cinematic footage.
- **Intelligent Flight Modes:** Includes QuickShots, MasterShots, FocusTrack, and Hyperlapse for automated creative shots.

4.4 Camera Operation

Control the camera settings, capture photos, and record videos directly from the DJI Fly app interface. Adjust parameters such as ISO, shutter speed, and white balance for optimal results.

- **Photo Modes:** Single Shot, Burst, AEB, Timed Shot.
- **Video Modes:** Standard, HDR, Slow Motion.
- **Gimbal Control:** Adjust pitch and yaw of the camera gimbal using the remote controller dial.

5. MAINTENANCE

5.1 Cleaning

- Wipe the aircraft body with a soft, dry cloth.
- Clean the camera lens and vision sensors with a lens cleaning cloth.
- Ensure no dust or debris obstructs the cooling vents.

5.2 Battery Care and Storage

- Store batteries in a cool, dry place, away from direct sunlight.
- Do not overcharge or over-discharge batteries.
- If storing for extended periods, discharge batteries to approximately 50-60% capacity.

5.3 Propeller Inspection

Regularly inspect propellers for cracks, bends, or other damage. Replace damaged propellers immediately to ensure flight safety and performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft fails to power on	Low battery, battery not properly inserted	Charge battery, reinsert battery firmly
No GPS signal	Flying indoors, obstructed view of sky	Move to an open outdoor area

Problem	Possible Cause	Solution
Gimbal abnormal	Gimbal protector not removed, physical obstruction	Remove protector, check for obstructions, recalibrate gimbal via app
App disconnects from aircraft	Interference, remote controller battery low	Move to an area with less interference, charge remote controller

For more detailed troubleshooting, refer to the DJI official support website or the DJI Fly app's help section.

7. SPECIFICATIONS

Feature	Detail
Model	Mavic 4 Pro
Dimensions (Folded)	(Refer to official DJI website)
Weight	(Refer to official DJI website)
Max Flight Time	(Refer to official DJI website)
Camera Sensor	(Refer to official DJI website)
Video Resolution	(Refer to official DJI website)
Operating Frequency	(Refer to official DJI website)

Note: Specific technical specifications for the DJI Mavic 4 Pro are not available in this manual's source data. Please refer to the official DJI website or the product packaging for the most accurate and up-to-date specifications.

8. SAFETY GUIDELINES

- Always fly in open areas, away from people, buildings, and vehicles.
- Maintain visual line of sight with the aircraft at all times.
- Do not fly near airports or in restricted airspace.
- Check local drone regulations before flying.
- Avoid flying in strong winds or adverse weather conditions.
- Ensure propellers are free from obstructions before and during flight.

9. WARRANTY AND SUPPORT

For detailed warranty information, product support, and service requests, please visit the official DJI website. Keep your proof of purchase for warranty claims.

Official DJI Website: www.dji.com/support

