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DJI CP.PT.000500

DJI Mavic Pro Quadcopter User Manual

Model: CP.PT.000500

Introduction

The DJI Mavic Pro is a compact yet powerful quadcopter designed for aerial photography and videography. It integrates advanced technologies to provide a stable and intuitive flight experience, making it suitable for both enthusiasts and professionals. Its foldable design enhances portability, allowing users to capture high-quality aerial footage wherever they go.

Key features include a 4K camera stabilized by a 3-axis mechanical gimbal, an OcuSync transmission system offering a range of up to 4.3 miles (7 km) with Full HD 1080p video streaming, and Flight Autonomy technology for obstacle avoidance and precise hovering.

Product Components



Image: The DJI Mavic Pro Quadcopter with its four propellers extended, showcasing its compact and foldable design. The camera gimbal is visible at the front.

The DJI Mavic Pro package includes the following main components:

- **Mavic Pro Aircraft:** The main drone unit with integrated camera and gimbal.

- **Remote Control:** A compact controller featuring DJI's OcuSync transmission technology for long-range control and video feed.
- **Intelligent Flight Battery:** Provides power for the aircraft, offering extended flight times.
- **Charger:** For recharging the Intelligent Flight Battery and Remote Control.
- **Propeller Pairs:** Multiple sets of propellers for replacement.
- **16GB microSD Card:** For storing captured photos and videos.

Setup Guide

1. **Charge Batteries:** Fully charge the Intelligent Flight Battery and the Remote Control using the provided charger. Ensure all indicator lights show a full charge.
2. **Attach Propellers:** Carefully unfold the drone arms. Attach the propellers to the corresponding motor bases. Ensure correct propeller types (clockwise and counter-clockwise) are installed on the correct motors as indicated in the quick start guide.
3. **Insert MicroSD Card:** Locate the microSD card slot on the aircraft and insert the 16GB microSD card. This card is essential for recording footage.
4. **Power On:** Press the power button on the Intelligent Flight Battery once, then press and hold for two seconds to power on the aircraft. Repeat this process for the Remote Control.
5. **Connect to Mobile Device:** Connect your smartphone or tablet to the Remote Control using the appropriate cable. Launch the DJI Go 4 app on your mobile device.
6. **Aircraft Activation:** Follow the on-screen instructions in the DJI Go 4 app to activate the aircraft. This typically involves logging into your DJI account.

Operating Instructions



Image: An angled view of the DJI Mavic Pro Quadcopter, highlighting its folded arms and compact form factor, ready for transport or storage.

The Mavic Pro is designed for intuitive flight control, but understanding its features is crucial for safe and effective

operation.

- **Pre-Flight Checklist:** Before each flight, ensure propellers are securely attached, batteries are charged, the microSD card is inserted, and the flight area is clear of obstacles. Check GPS signal strength in the DJI Go 4 app.
- **Takeoff and Landing:** Use the automatic takeoff/landing function in the DJI Go 4 app for a smooth start and finish. The Flight Autonomy system allows the Mavic to land almost exactly where it took off.
- **Obstacle Avoidance:** The Mavic Pro utilizes vision sensors to detect obstacles up to 49 feet (15 meters) away, enabling it to fly at speeds up to 22 mph (36 kph) while actively avoiding collisions. Always maintain visual line of sight and be aware of your surroundings.
- **Flight Modes:** The DJI Go 4 app offers various intelligent flight modes, including ActiveTrack, TapFly, and Gesture Mode, to enhance your flying and filming experience. Refer to the in-app tutorials for detailed instructions on each mode.
- **Camera Operation:** The integrated 4K camera with a 3-axis mechanical gimbal provides stable and clear footage. Control camera tilt, capture photos, and start/stop video recording directly from the remote control or the DJI Go 4 app.
- **Return to Home (RTH):** The RTH function allows the aircraft to automatically return to its takeoff point. This can be initiated manually or triggered automatically in case of low battery or loss of signal.

Note on Videos: No official product videos with "Seller" as creator type were found in the provided data to embed. For visual demonstrations, please refer to the official DJI website or authorized channels.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your DJI Mavic Pro.

- **Cleaning:** After each flight, gently wipe down the aircraft and remote control with a soft, dry cloth. Ensure no dust or debris accumulates in the motor areas or around the camera gimbal.
- **Propeller Inspection:** Regularly inspect propellers for any cracks, bends, or damage. Replace damaged propellers immediately to ensure safe flight.
- **Battery Care:** Store Intelligent Flight Batteries in a cool, dry place. Avoid fully discharging batteries and charge them periodically if not in use for extended periods to maintain battery health.
- **Firmware Updates:** Periodically check for and install firmware updates for both the aircraft and remote control via the DJI Go 4 app. Updates often include performance improvements and bug fixes.
- **Gimbal Protection:** Always attach the gimbal protector when transporting or storing the aircraft to prevent damage to the camera and gimbal mechanism.

Troubleshooting

This section addresses common issues you might encounter with your Mavic Pro.

- **Aircraft Not Powering On:** Ensure the Intelligent Flight Battery is fully charged and properly inserted. Press the power button once, then press and hold for two seconds.
- **No Video Feed in App:** Check the connection between your mobile device and the remote control. Ensure the DJI Go 4 app is updated and the aircraft is powered on and linked to the remote.
- **GPS Signal Weak/Lost:** Fly in open areas away from tall buildings or strong magnetic interference. Allow sufficient time for the drone to acquire enough satellites before takeoff.
- **Unstable Flight:** Check propellers for damage and ensure they are correctly installed. Perform IMU and compass calibrations in the DJI Go 4 app if flight stability issues persist.

- **Obstacle Avoidance Not Working:** Ensure vision sensors are clean and unobstructed. Fly in well-lit conditions as vision sensors rely on adequate lighting.

For more detailed troubleshooting, refer to the official DJI support resources or the comprehensive user manual available online.

Specifications

Feature	Detail
Brand	DJI
Model Name	Mavic Pro
Item Model Number	CP.PT.000500
UPC	190021279605
Color	Gray
Item Weight	1.64 Pounds (0.74 kg)
Product Dimensions	11.4"L x 7.1"W x 9.45"H (28.96 x 18.03 x 24.0 cm)
Video Capture Resolution	4K
Video Output Resolution	1920x1080 pixels
Connectivity Technology	OcuSync, Wi-Fi
Maximum Range	4.3 Miles (7 km)
Operating Temperature	32° to 104° F (0° to 40° C)
Battery Type	Lithium Ion (1 included)
Skill Level	Professional
Special Features	Auto-return, Follow-me, GPS, Image-stabilization, Integrated-camera, Obstacle-avoidance, Video-downlink-capable, Wi-Fi

Warranty and Support

The DJI Mavic Pro comes with a manufacturer's warranty. Based on available information, a 12-month factory warranty is provided, with 9 months potentially remaining from the date of purchase for certain units.
For official support, additional user guides, and frequently asked questions, please refer to the following resources:

- Official User Guide (PDF)
- Official User Manual (PDF)
- Visit the Official DJI Store on Amazon

For any specific issues or warranty claims, it is recommended to contact DJI customer support directly through their official website.

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