DJI CP.MA.00000654.02

DJI Mavic 3 Pro User Manual

Model: CP.MA.00000654.02
Brand: DJI

1. Introduction

The DJI Mavic 3 Pro is a flagship triple-camera drone designed for advanced aerial photography and videography. It features a 4/3 CMOS Hasselblad camera, extended flight time, and advanced obstacle sensing capabilities, making it suitable for both enthusiasts and professional users.



Image: DJI Mavic 3 Pro drone with its remote controller.

2. What's in the Box

Upon unboxing your DJI Mavic 3 Pro, verify that all components are present:

- DJI Mavic 3 Pro x1
- DJI RC x1
- DJI RC Control Sticks (Pair) x1
- DJI Mavic 3 Intelligent Flight Battery x1
- Spare DJI Mavic 3 Low-Noise Propellers (pair) x1
- DJI 65W Portable Charger x1
- DJI Mavic 3 Pro Storage Cover x1
- USB 3.0 Type-C Cable x1



Image: Visual representation of all items included in the product package.

3. Setup Guide

3.1 Charging the Battery

Before first use, fully charge the Intelligent Flight Battery and the DJI RC. Use the provided DJI 65W Portable Charger and USB 3.0 Type-C Cable. The battery level indicators on both the drone and controller will show charging progress.

3.2 Attaching Propellers

Attach the propellers to the corresponding motor mounts. Ensure the propellers with orange marks are installed on motors with orange marks, and unmarked propellers on unmarked motors. Press down and twist to secure.

3.3 Powering On/Off

To power on, press the power button once, then press and hold for two seconds. Repeat the process to power off.

3.4 Linking the Aircraft and Remote Controller

If the aircraft and remote controller are not linked, follow the instructions in the DJI Fly app to link them. Ensure both devices are powered on and within range.

Your browser does not support the video tag.

Video: Official DJI guide on the first use of the Mavic 3 Pro, covering initial setup and linking procedures.

4. Operating Instructions

4.1 Flight Operations

The DJI Mavic 3 Pro offers a maximum flight time of 43 minutes. Always ensure sufficient battery for your flight plan, including return to home. The drone features Omnidirectional Obstacle Sensing and APAS 5.0, which uses eight vision sensors to detect obstacles and plan safe flight routes, enhancing flight safety.



Image: The drone actively sensing and avoiding obstacles during flight.

4.2 Camera System

The Mavic 3 Pro is equipped with a flagship triple-camera system:

- **Hasselblad Main Camera:** 4/3 CMOS sensor, 24mm equivalent, f/2.8-f/11, 20 MP. Supports 12-bit RAW photos and 5.1K/50fps video.
- **70mm Medium Tele Camera:** 1/1.3-inch CMOS, 3x optical zoom, 48 MP.
- **166mm Tele Camera:** 1/2-inch CMOS, 7x optical zoom, 28x hybrid zoom, 12 MP.

These cameras provide diverse focal lengths for various shooting scenarios, from wide landscapes to detailed close-ups. The Hasselblad Natural Colour Solution (HNCS) ensures accurate color reproduction. For post-production, 10-bit D-Log M and HLG color modes are supported, offering rich color depth.



Image: Detailed view of the drone's triple-camera system with focal length specifications.

4.3 Intelligent Features

The Mavic 3 Pro includes advanced intelligent features:

- **FocusTrack:** The Hasselblad and medium tele cameras support FocusTrack, enabling stable tracking shots with various tracking modes.

- **Advanced RTH (Return to Home):** Automatically determines a safe and efficient flight route back to its home point.
- **DJI O3+ Transmission:** Provides a stable signal transmission distance of up to 15 km, with 1080p/60fps live feed for smooth control.



Image: Visual representation of the drone's extended flight time and video transmission range.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your DJI Mavic 3 Pro:

- **Cleaning:** Regularly clean the drone body, propellers, and camera lenses with a soft, dry cloth. Avoid using harsh chemicals.
- **Battery Care:** Store batteries at approximately 50-60% charge if not used for extended periods. Avoid extreme temperatures.
- **Propeller Inspection:** Check propellers for any cracks, bends, or damage before each flight. Replace damaged propellers immediately using the provided spares.

- **Firmware Updates:** Keep the drone and remote controller firmware updated via the DJI Fly app to ensure access to the latest features and performance improvements.

6. Troubleshooting

This section addresses common issues you might encounter:

- **No GPS Signal:** Ensure you are flying in an open area away from tall buildings or dense foliage. Magnetic interference can also affect GPS.
- **Obstacle Avoidance Warning:** If you receive frequent warnings, check the vision sensors for obstructions or dirt. Fly in well-lit environments for optimal sensor performance.
- **Connection Issues:** Restart both the drone and the remote controller. Ensure they are properly linked. Avoid areas with strong radio interference (e.g., Wi-Fi hotspots, power lines).
- **Short Flight Time:** Ensure batteries are fully charged. Flight time can be affected by strong winds, aggressive flying, or extreme temperatures.

For a comprehensive guide, please refer to the officialTroubleshooting Guide (PDF) and User Guide (PDF).

7. Specifications

Feature	Detail
Brand	DJI
Model Name	Mavic 3 Pro
Item Model Number	CP.MA.00000654.02
Special Feature	Long Distance Control, High Sensitivity Sensor, Obstacle Avoidance, Long Battery Life, One Button Return
Age Range (Description)	Adult
Color	Black
Video Capture Resolution	4K, 5.1K
Effective Still Resolution	20 MP
Connectivity Technology	Bluetooth, Wi-Fi
Item Weight	958 Grams (2.11 pounds)
Battery Capacity	5000 Milliampere Hour (mAh)
Maximum Range	15 Kilometers
Material	Carbon Fiber, Plastic
Product Dimensions	13.68"L x 11.44"W x 4.24"H

Feature	Detail
Date First Available	April 25, 2023

8. Warranty and Support

DJI provides an official warranty and one-stop technical support for its products. For detailed warranty information and to access support resources, please visit the official DJI Store or refer to the warranty documentation included with your product.
Additional support documents, including the Certificate of Compliance (PDF) and Safety Information (PDF), are available for download.

© 2024 DJI. All rights reserved.