**DJI Mavic 2 Pro**

# DJI Mavic 2 Pro Drone Instruction Manual

Model: Mavic 2 Pro

## 1. INTRODUCTION

This manual provides essential information for operating your DJI Mavic 2 Pro drone. Please read this document thoroughly before using the product to ensure safe and effective operation. Proper understanding of the drone's features and functions will enhance your flight experience and help maintain the longevity of your device.

## 2. PRODUCT OVERVIEW

The DJI Mavic 2 Pro is a compact, foldable quadcopter equipped with a Hasselblad camera featuring a 1-inch CMOS sensor. It offers advanced flight control systems, including obstacle avoidance and various intelligent flight modes.

### 2.1 Included Components

The standard package includes the following items:

- DJI Mavic 2 Pro Quadcopter
- Remote Controller
- Intelligent Flight Battery
- 3 x 8330 Quick Release Folding Propellers (pairs)
- Gimbal Clamp
- Charger and AC Power Cable
- 16GB microSD Card
- Micro-USB Cable
- RC Cable with Lightning Connector
- RC Cable with Micro-USB Connector
- 2 x RC Cable Slider
- Lens Hood/Gimbal Guard
- Transparent Lens Cover/Gimbal Lock
- Landing Gear Height Extender Kit

- Stabilizers
- RC Protector
- Microfiber Cleaning Cloth
- Hardshell Carrying Case
- SanDisk Ultra 32GB microSDHC UHS-I Card with Adapter

## 2.2 Drone Components

Familiarize yourself with the main parts of the Mavic 2 Pro.



Figure 1: Front view of the DJI Mavic 2 Pro drone, showcasing the Hasselblad camera and front obstacle sensors.



Figure 2: The DJI Mavic 2 Pro in its folded state, highlighting its compact design for portability.

Figure 3: Top-down view of the DJI Mavic 2 Pro drone with arms unfolded, ready for flight.

Figure 4: All included accessories for the DJI Mavic 2 Pro drone, laid out for inspection.

## 3. SETUP

### 3.1 Charging Batteries

Before first use, fully charge the Intelligent Flight Battery and the Remote Controller. Use the provided charger and AC power cable.

1. Connect the charger to a power outlet.
2. Connect the Intelligent Flight Battery to the charger. The battery level indicators will show charging status.
3. Connect the remote controller to the charger using the Micro-USB cable.

### 3.2 Attaching Propellers

Ensure propellers are correctly attached to their corresponding motor bases. Match the colored marks on the propellers with the marks on the motors.

1. Identify the two types of propellers: those with white rings and those without.
2. Attach the propellers with white rings to the motors with white dots.
3. Attach the propellers without white rings to the motors without white dots.

4. Press down on the propeller and rotate it in the lock direction until it is secure.

## 3.3 Installing the Intelligent Flight Battery

Insert the fully charged Intelligent Flight Battery into the battery compartment on the rear of the drone until it clicks securely into place.

## 3.4 Preparing the Remote Controller

1. Unfold the mobile device clamps on the remote controller.
2. Place your mobile device (smartphone or tablet) into the clamps.
3. Connect your mobile device to the remote controller using the appropriate RC cable (Lightning or Micro-USB).
4. Ensure the DJI GO 4 app is installed on your mobile device.

# 4. OPERATING INSTRUCTIONS

## 4.1 Pre-Flight Checklist

Before each flight, perform the following checks:

- Ensure all batteries (drone and remote controller) are fully charged.
- Propellers are correctly and securely attached.
- Gimbal clamp and lens cover are removed.
- MicroSD card is inserted if recording is desired.
- Check for clear GPS signal and sufficient satellite count in the DJI GO 4 app.
- Verify no obstacles or hazards in the flight path.

## 4.2 Takeoff and Landing

The Mavic 2 Pro offers automated takeoff and landing features.

1. Place the drone on a flat, open surface.
2. Power on the remote controller, then the drone.
3. Open the DJI GO 4 app and wait for connection.
4. In the app, tap the auto-takeoff icon and confirm. The drone will ascend to a preset height.
5. To land, tap the auto-landing icon in the app and confirm. The drone will descend and land automatically. Alternatively, use the left stick to slowly lower the drone.

## 4.3 Basic Flight Controls

Control the drone using the remote controller sticks:

- **Left Stick:** Controls altitude (up/down) and yaw (rotate left/right).
- **Right Stick:** Controls forward/backward movement and left/right strafing.

## 4.4 Intelligent Flight Modes

The Mavic 2 Pro features several intelligent flight modes for enhanced operation:

- **ActiveTrack:** Follows a moving subject automatically.
- **QuickShots:** Pre-programmed flight paths for cinematic video capture.

- **Waypoint:** Plans a flight path based on user-defined waypoints.
- **Return-to-Home (RTH):** Automatically returns the drone to its takeoff point.
- **Obstacle Avoidance:** Utilizes multiple sensors to detect and avoid obstacles in its path.

## 4.5 Camera Operation

The integrated Hasselblad camera captures high-quality images and 4K video.

- Use the camera settings in the DJI GO 4 app to adjust exposure, ISO, and white balance.
- The remote controller has dedicated buttons for taking photos and starting/stopping video recording.
- The gimbal can be controlled via a wheel on the remote controller for precise camera angle adjustments.

# 5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your drone.

## 5.1 Cleaning

- Wipe the drone body with a soft, dry cloth after each flight.
- Use the microfiber cleaning cloth to gently clean the camera lens and vision sensors.
- Remove any debris from the motors and propeller mounts.

## 5.2 Battery Care

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

## 5.3 Propeller Inspection

Inspect propellers before each flight for cracks, bends, or damage. Replace any damaged propellers immediately.

## 5.4 Firmware Updates

Periodically check the DJI GO 4 app for available firmware updates. Keep your drone and remote controller firmware up-to-date for optimal performance and new features.

# 6. TROUBLESHOOTING

This section addresses common issues and their potential solutions.

## 6.1 Drone Not Powering On

- **Issue:** Drone does not respond to power button.
- **Solution:** Ensure the Intelligent Flight Battery is fully charged and correctly installed. Press the power button once, then press again and hold for two seconds to power on.

## 6.2 No GPS Signal

- **Issue:** Drone cannot acquire GPS signal.
- **Solution:** Fly in an open outdoor area away from tall buildings or strong electromagnetic interference. Wait for the DJI GO 4 app to indicate a strong GPS signal before takeoff.

## 6.3 Image Transmission Issues

- **Issue:** Poor quality or no live video feed.
- **Solution:** Ensure the mobile device is securely connected to the remote controller. Check for interference in the area. Adjust antenna orientation on the remote controller. Update firmware for both drone and remote controller.

## 6.4 Gimbal Malfunction

- **Issue:** Gimbal is unstable or not responding.
- **Solution:** Ensure the gimbal clamp and transparent lens cover are removed before powering on. Calibrate the gimbal through the DJI GO 4 app. Check for any physical obstructions.

## 7. SPECIFICATIONS

| Feature | Detail |
| --- | --- |
| Brand | DJI |
| Model Name | Mavic 2 Pro |
| Item Weight | 5.96 pounds |
| Package Dimensions | 17.99 x 14.37 x 6.77 inches |
| Video Capture Resolution | 4K |
| Optical Sensor Technology | CMOS (1-inch) |
| Connectivity Technology | Wi-Fi |
| Special Features | Auto-Return, Follow-Me, GPS, Image-Stabilization, Integrated-Camera, Obstacle-Avoidance, Video-Downlink-Capable |
| Battery Cell Composition | Lithium Ion |
| UPC | 635665752218 |

## 8. WARRANTY & SUPPORT

For detailed warranty information and technical support, please refer to the official DJI website or contact DJI customer service. Keep your proof of purchase for warranty claims.
**Online Support:** Visit the DJI Support Page for FAQs, downloads, and contact options.

## Related Documents - Mavic 2 Pro

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|---|---|
| | [DJI Mavic 3 User Manual: Comprehensive Guide to Features and Operation](#)<br>Explore the DJI Mavic 3 user manual, detailing its advanced features, flight modes, camera capabilities, remote controller operation, and safety guidelines for optimal drone piloting. |
| | [DJI Mavic 3 User Manual: Comprehensive Guide to Operation and Features](#)<br>Explore the capabilities of the DJI Mavic 3 and Mavic 3 Cine drones with this official user manual. Learn about setup, flight controls, camera operation, safety protocols, DJI Fly app usage, and remote controller functions (DJI RC Pro, RC-N1). Includes technical specifications and troubleshooting. |
| | [DJI Mavic 2 Pro/Zoom User Manual](#)<br>Comprehensive user manual for the DJI Mavic 2 Pro and Mavic 2 Zoom drones, covering setup, flight operations, intelligent flight modes, camera usage, remote controller functions, and specifications. |
| | [DJI Mavic 3 Pro User Manual - Comprehensive Guide to Drone Operation and Features](#)<br>Explore the DJI Mavic 3 Pro and Mavic 3 Pro Cine drones with this official user manual. Learn about advanced features, flight modes, camera capabilities, safety guidelines, and remote controller operation for optimal aerial photography and videography. |
| | [DJI Mavic 2 Pro/Zoom User Manual](#)<br>This user manual provides comprehensive instructions for operating the DJI Mavic 2 Pro and Mavic 2 Zoom drones, covering setup, flight modes, app integration, and safety guidelines. |

**DJI Mavic 3 Pro Quick Start Guide**

A concise guide to setting up and operating the DJI Mavic 3 Pro drone, covering app installation, charging, propeller attachment, and basic controls.