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> DJI Mavic 2 Pro User Manual

DJI CP.MA.00000019.01

DJI Mavic 2 Pro User Manual

Model: CP.MA.00000019.01 | Brand: DJI

INTRODUCTION

The DJI Mavic 2 Pro is a high-performance drone designed for aerial photography and videography. It features a high-resolution 4K camera with a 20-megapixel sensor, capable of capturing stunning images and videos. This manual provides essential information for setting up, operating, and maintaining your DJI Mavic 2 Pro drone. For a complete and detailed guide, please refer to the [Official User Guide \(PDF\)](#).



Figure 1: DJI Mavic 2 Pro Drone

WHAT'S IN THE BOX

Your DJI Mavic 2 Pro package includes the following components:

- DJI Mavic 2 Pro Remote Controller
- DJI Intelligent Flight Battery for Mavic 2 Pro/Zoom
- DJI Battery Charger for Mavic 2
- Power Cable
- 3 x DJI Low-Noise Propellers for Mavic 2 Pro/Zoom/Enterprise (One Pair)
- RC Cable with Lightning Connector
- RC Cable with Micro-USB Connector
- RC Cable with USB Type-C Connector
- Gimbal Protector
- Communication Cable with USB 3.0 Type-C Connector
- USB Adapter
- Large RC Cable Slider
- 2 x Small RC Cable Slider
- Pair of Spare Control Sticks



Figure 2: Included Components

SETUP

1. Unfolding the Drone

Carefully unfold the front arms first, then the rear arms. Ensure all arms are fully extended and locked into place before flight.



Figure 3: Drone with unfolded arms

2. Battery Installation

Insert the Intelligent Flight Battery into the battery compartment on the top of the drone until it clicks securely into place. To remove, press the release buttons on the sides of the battery and pull it out.

3. Gimbal Protector

Before powering on the drone, gently remove the gimbal protector. This clear cover protects the camera and gimbal during transport. Reattach it when storing or transporting the drone.



Figure 4: Front view with gimbal

4. Remote Controller Setup

Unfold the remote controller's antennas and extend the smartphone clamps. Attach your smartphone using the appropriate RC cable (Lightning, Micro-USB, or USB Type-C) to connect it to the controller.



Figure 5: Remote Controller with Smartphone

5. Powering On

Press the power button on the drone and then on the remote controller once, then press and hold for two seconds to power them on. The drone and controller will automatically connect.

OPERATING THE DRONE

Camera Features

The Mavic 2 Pro is equipped with a high-quality camera. It supports 4K video recording at 30 frames per second (fps), 2.7K at 60 fps for a good balance of resolution and smoothness, and 1080p at 120 fps for ultimate slow-motion effects. The camera also supports HDR and Panorama modes for vivid and detailed images in various lighting conditions.

Flight Controls

The advanced flight controls provide responsive handling, allowing for precise maneuvers. The intuitive controls make it easy for both beginners and experienced pilots to operate the drone.

Intelligent Flight Modes

ActiveTrack: This intelligent flight mode allows the drone to automatically follow a selected subject. Once the subject is chosen, the drone autonomously tracks it, keeping it in the frame and adjusting its flight path as needed. This is ideal for capturing smooth, professional-looking tracking shots without manual control.

Hand Gesture Controls

The drone supports hand gesture controls, enabling users to command the Mavic 2 Pro and capture photos or videos using specific hand gestures. For example, raising your hand or forming a frame with your fingers can trigger a selfie or start recording. This feature is convenient for group photos or selfies when the controller is not readily available, offering a hands-free flying experience.

GPS and Return-to-Home

Reliable GPS connectivity ensures safe navigation and landing. The automatic Return-to-Home (RTH) function is especially useful if the drone loses connection or runs low on battery, guiding it safely back to its takeoff point.

MAINTENANCE

Battery Charging

Ensure all batteries are fully charged before each flight. Note that even with a multi-slot battery charger, batteries typically charge one at a time. Plan your charging sessions accordingly to maximize flight time.

Durability and Care

The Mavic 2 Pro is constructed with sturdy, high-quality materials, ensuring durability and long-lasting performance. Its robust design is built to withstand minor impacts and various weather conditions, extending the drone's lifespan. Always inspect propellers and the drone body for any damage before and after each flight.

TROUBLESHOOTING

If you encounter issues with your DJI Mavic 2 Pro, consider the following common troubleshooting steps:

- **No Connection:** Ensure both the drone and remote controller are powered on and fully charged. Check that your smartphone is securely connected to the controller with the correct cable.
- **GPS Signal Loss:** Fly in open areas away from tall buildings or strong electromagnetic interference. Allow the drone sufficient time to acquire GPS satellites before takeoff.
- **Unstable Flight:** Check for any damage to propellers or motors. Ensure the drone's firmware is up to date. Perform IMU calibration if recommended by the DJI app.
- **Battery Issues:** If batteries are not charging, ensure the charger is properly connected to a power source and the battery. Avoid over-discharging batteries.

For more detailed troubleshooting, refer to the [Official User Guide \(PDF\)](#) or contact DJI customer support.

SPECIFICATIONS

Feature	Detail
Brand	DJI
Model Name	Mavic 2 Pro
Color	Gray

Video Capture Resolution	4K UHD 2160p
Effective Still Resolution	12 MP
Connectivity Technology	USB
Item Weight	2 Pounds
Video Capture Format	MOV
Remote Control Technology	Radio Frequency (RF)
Control Type	Remote Control
Media Type	Micro SD
Material	PP
Wireless Communication Technology	Digital Video Transmission
Battery Cell Composition	Lithium Ion
Are Batteries Included	Yes
Supported Image Format	RAW, JPEG
Video Output Resolution	4K UHD 2160p
Remote Control Included?	Yes
Optical Sensor Technology	CMOS
Rechargeable Battery Included	Yes
Product Dimensions	11.14"L x 4.33"W x 10.9"H
UPC	190021320598
Manufacturer	DJI
Item model number	CP.MA.00000019.01
Batteries	1 Lithium Polymer batteries required. (included)
Date First Available	August 27, 2018

WARRANTY AND SUPPORT

The DJI Mavic 2 Pro comes with a Limited 1-Year Warranty for the MC, Remote Controller & Battery Charger. A Limited 6-Month Warranty is provided for the Gimbal Camera, Vision Positioning System, Propulsion System (excluding propellers) & Battery (with less than 200 charge cycles).

For further support, visit the [Official DJI Store on Amazon](#).