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DJI CP.PT.00000130.01

DJI Mavic Air (Onyx Black) User Manual

Model: CP.PT.00000130.01

1. Introduction

The DJI Mavic Air is an ultraportable and foldable drone designed for aerial photography and videography. It integrates advanced flight performance with a compact form factor, making it suitable for various applications. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DJI Mavic Air drone.



Figure 1.1: The DJI Mavic Air drone in Onyx Black, showcasing its compact and aerodynamic design.

2. What's in the Box

Verify that all components listed below are present in your package:

- Aircraft (Drone) x 1
- Remote Controller x 1
- Intelligent Flight Battery x 1

- Charger x 1
- Power Cable x 1
- Propellers (Pair) x 4
- Propeller Guards (Set) x 1
- RC Cable (Lightning connector) x 1
- RC Cable (Standard Micro USB connector) x 1
- Gimbal Protector x 1
- Communication Cable (USB3.0 Type-C) x 1
- USB Adapter x 1
- RC Cable Slider (Large) x 1
- RC Cable Slider (Small) x 2
- Carrying Case x 1
- Spare Control Sticks (Pair) x 1



Figure 2.1: All components included with the DJI Mavic Air, neatly arranged.

3. Setup

3.1 Charging the Intelligent Flight Battery

1. Connect the charger to a power outlet using the power cable.
2. Insert the Intelligent Flight Battery into the charger.

3. The battery indicator lights will show the charging status. Ensure the battery is fully charged before first use.

3.2 Attaching Propellers

Attach the propellers to the corresponding motor bases. Match the propellers with the colored markings (silver or black) to the motor bases with the same markings. Press down and twist to secure.

3.3 Preparing the Remote Controller

Unfold the remote controller's phone clamps and antenna. Attach your mobile device using the appropriate RC cable (Lightning or Micro USB Type-C). Ensure the control sticks are securely screwed into place.



Figure 3.1: The DJI Mavic Air in its folded state, highlighting its portability.

4. Operating Instructions

4.1 Powering On/Off

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

4.2 Linking the Aircraft and Remote Controller

If the aircraft and remote controller are not linked, follow the instructions in the DJI GO 4 app to link them. Ensure both devices are powered on.

4.3 Flight Preparation

- Place the aircraft on a flat, open surface with the rear facing you.
- Ensure GPS signal is strong (at least 6 satellites).
- Check battery levels of both aircraft and remote controller.
- Remove the gimbal protector before flight.

4.4 Takeoff and Landing

Use the DJI GO 4 app for automatic takeoff and landing, or manually control using the remote sticks. For manual takeoff, push both control sticks to the bottom inner or outer corners to start the motors, then push the left stick up to ascend.



Figure 4.1: Front view of the DJI Mavic Air, highlighting the camera and obstacle sensing system.

5. Maintenance

5.1 Propeller Inspection

Regularly inspect propellers for cracks, bends, or damage. Replace any damaged propellers immediately to ensure safe flight. Ensure propellers are clean and free of debris.

5.2 Battery Care

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

5.3 Gimbal and Camera Cleaning

Gently clean the gimbal and camera lens with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could scratch the lens or damage the gimbal mechanism.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted. Press power button once, then press and hold for 2 seconds.
Loss of video transmission.	Weak signal, interference, or mobile device issue.	Fly within transmission range. Avoid areas with strong interference. Restart the DJI GO 4 app or mobile device.
Drone drifts during flight.	Weak GPS signal or compass interference.	Fly in an open area with clear sky for strong GPS. Perform compass calibration if prompted by the app.

7. Specifications

Feature	Detail
Brand	DJI
Model Name	Mavic Air
Color	Onyx Black
Video Capture Resolution	4K Ultra HD: 3840x2160 24/25/30p, 2.7K: 2720x1530 24/25/30/48/50/60p, FHD: 1920x1080 24/25/30/48/50/60/120p and HD: 1280x720 24/25/30/48/50/60/120p
Effective Still Resolution	12 MP
Connectivity Technology	iOS v9.0 or later, Android v4.4 or later
Skill Level	Professional
Item Weight	3.15 pounds
Maximum Range	80 Meters (when connected to a mobile device)
Battery Cell Composition	Lithium Ion
Product Dimensions	6.59 x 7.2 x 2.5 inches

8. Warranty and Support

For detailed warranty information and technical support, please refer to the official DJI website or contact DJI customer service directly. Keep your proof of purchase for warranty claims.
Official User Manual (PDF): Download PDF

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