DJI CP.MA.00000176.03

DJI Mavic Air 2 Drone User Manual

Model: CP.MA.00000176.03

Introduction

This manual provides essential information for operating and maintaining your DJI Mavic Air 2 Drone. The Mavic Air 2 combines advanced camera capabilities with intelligent flight modes, offering an enhanced aerial photography experience. It features a 1/2-inch CMOS sensor for 48MP photos and 4K/60fps video, supported by a 3-axis gimbal. OcuSync 2.0 provides a video transmission distance of up to 10 km (6.2 miles) with 1080p FHD livestream.
Key features include an impressive flight time of up to 34 minutes, obstacle sensing in three directions for improved safety, and intelligent tracking functions like Spotlight 2.0, ActiveTrack 3.0, and POI 3.0.

What's in the Box



Image: All components included in the DJI Mavic Air 2 package, laid out neatly. This includes the drone, remote controller, intelligent flight battery, low-noise propellers, RC cables (USB Type-C, Lightning, Standard Micro-USB), control sticks, gimbal protector, battery charger, manuals, AC power cable, and Type-C cable.

- Mavic Air 2 Aircraft
- Remote Controller
- Intelligent Flight Battery
- 3x Low-Noise Propellers (Pair)
- RC Cables (USB Type-C, Lightning, Standard Micro-USB)
- Control Stick
- Gimbal Protector
- Battery Charger
- Manuals
- AC Power Cable
- Type-C Cable

Setup

1. Charging Batteries

Before first use, fully charge the Intelligent Flight Battery and the Remote Controller. Connect the battery charger to a power outlet and then to the Intelligent Flight Battery. For the remote controller, use the provided USB cable to connect it to a power source.

2. Propeller Installation

Attach the propellers to the motor bases. Match the propellers with marks to the motors with marks, and unmarked propellers to unmarked motors. Press down and twist to secure them.

3. Remote Controller Setup



Image: A user's hands holding the DJI Mavic Air 2 remote controller, which has a smartphone securely mounted at the top. The phone screen displays the DJI Fly app interface, showing a live feed from the drone's camera and control options.

Unfold the remote controller's phone holder and insert your smartphone. Connect the appropriate RC cable from the remote controller to your smartphone. Ensure the control sticks are securely attached.

4. DJI Fly App Installation

Download and install the DJI Fly app on your mobile device. The app is compatible with iOS v10.0 or above and Android v6.0 or above. This app is essential for controlling the drone, accessing intelligent flight modes, and viewing the live camera feed.

Operating the Drone



Image: The DJI Mavic Air 2 drone, light gray in color, with its four arms extended and propellers unfolded, ready for flight. The camera gimbal is visible at the front, positioned below the main body.

Basic Flight Controls

Familiarize yourself with the remote controller's joysticks and buttons. The left stick typically controls altitude and yaw (rotation), while the right stick controls forward/backward and left/right movement. Always perform a pre-flight check before takeoff.

Intelligent Flight Modes

- **Spotlight 2.0:** Keeps the camera locked on a subject while you fly freely, allowing for dynamic shots.
- **ActiveTrack 3.0:** Automatically tracks and keeps subjects centered in the frame, even if they move.
- **POI 3.0 (Point of Interest):** Tracks moving subjects like people and vehicles in a circular path around them.

Camera Operation

The Mavic Air 2 is equipped with a powerful camera capable of capturing 48MP photos and 4K/60fps video. The 3-axis gimbal ensures stable footage. For enhanced dynamic range, utilize the HDR video feature, which leverages a high-performance Quad Bayer image sensor.

Flight Safety and Obstacle Sensing

The drone features obstacle sensing in three directions (forward, backward, and downward) to enhance flight safety, especially for beginners. Always fly in open areas, away from people and obstacles. Be aware of local flight restrictions and regulations. Avoid flying indoors unless you are an experienced pilot and have sufficient space.

Maintenance

- **Cleaning:** Regularly clean the drone body, camera lens, and sensors with a soft, dry cloth. Avoid using liquids or abrasive materials.
- **Propeller Inspection:** Before each flight, inspect propellers for any cracks, bends, or damage. Replace damaged propellers immediately.
- **Battery Care:** Store batteries in a cool, dry place. Do not fully discharge or overcharge batteries. If storing for extended periods, discharge them to approximately 50-60% capacity.
- **Gimbal Protection:** Always attach the gimbal protector when transporting or storing the drone to prevent damage

to the camera and gimbal mechanism.

Troubleshooting

Issue	Possible Cause	Solution
Drone does not power on	Low battery; Battery not properly inserted	Charge the Intelligent Flight Battery; Ensure battery is securely clicked into place.
No video feed on app	Loose cable connection; App not running; Interference	Check RC cable connection to phone; Restart DJI Fly app; Move to an area with less interference.
Drone drifts during flight	Compass calibration needed; Strong winds	Perform compass calibration in the DJI Fly app; Avoid flying in strong winds.
Poor image/video quality	Dirty lens; Incorrect camera settings; Low light conditions	Clean the camera lens; Adjust camera settings (ISO, shutter speed); Fly in well-lit conditions.

Specifications

Feature	Detail
Brand	DJI
Model Name	Mavic Air 2
Video Capture Resolution	4K
Connectivity Technology	OcuSync 2.0, Wi-Fi
Maximum Range	11.5 Miles (18.5 km)
Flight Time	Up to 34 minutes
Obstacle Sensing	3 directions (Forward, Backward, Downward)
Camera Sensor	1/2-inch CMOS
Photo Resolution	48MP
Gimbal	3-axis mechanical gimbal
Product Dimensions	7.09"L x 3.82"W x 3.31"H (Folded)
Item Weight	4.2 pounds
Battery Type	Lithium Polymer

Warranty and Support

This product is a renewed item and is backed by theAmazon Renewed Guarantee. If you are not satisfied with your purchase, renewed products are eligible for replacement or refund under this guarantee.
For further assistance, please refer to the official DJI support resources or contact Amazon Renewed customer service.

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Example: How do I reset this device or fix this error?

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