DJI DJIMAVIC3OB

DJI Mavic 3 Instruction Manual

Comprehensive Guide for Operation and Maintenance

1. Introduction

The DJI Mavic 3 is a state-of-the-art drone designed for professional aerial photography and videography. It features a 4/3 CMOS Hasselblad Camera, omnidirectional obstacle sensing, extended flight time, and advanced transmission capabilities.

Key Features:

- **Imaging Above Everything:** Equipped with a 4/3 CMOS Hasselblad Camera, offering a 12.8-stop dynamic range for detailed highlights and shadows.
- **Extended Flight Time:** Up to 46 minutes of flight time for prolonged aerial capture.
- **Enhanced Safety:** Omnidirectional obstacle sensing for confident and safe flight.
- **Superior Transmission:** 15-kilometer max transmission range with O3 Plus system for smooth, stable live feeds.
- **Smart Return to Home:** Advanced RTH system for safe and optimized return to home point.

2. Package Contents

Verify that all items are present in your DJI Mavic 3 package:

- DJI Mavic 3 ×1
- DJI RC-N1 Remote Controller ×1
- DJI RC-N1 Remote Controller Control Sticks (pair) ×1
- DJI RC-N1 RC Cable (USB Type-C Connector) ×1
- DJI RC-N1 RC Cable (Standard Micro-USB Connector) ×1
- DJI RC-N1 RC Cable (Lightning Connector) ×1
- DJI Mavic 3 Intelligent Flight Battery ×1
- DJI Mavic 3 Low-Noise Propellers (pair) ×3
- DJI 65W Portable Charger ×1
- DJI Mavic 3 Storage Cover ×1
- Type-C Cable ×1

3. Setup and Preparation

3.1 Unfolding the Aircraft

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



Image: A person carefully unfolding the arms of the DJI Mavic 3 drone.

3.2 Battery Installation and Charging

Insert the Intelligent Flight Battery into the battery compartment until it clicks securely. Use the provided DJI 65W Portable Charger to fully charge the battery before first use. A full charge takes approximately 90 minutes.

3.3 Remote Controller Setup

Attach the control sticks to the remote controller. Connect your mobile device to the remote controller using the appropriate RC cable (USB Type-C, Micro-USB, or Lightning).



Image: The DJI Mavic 3 drone positioned next to its remote controller.

3.4 DJI Fly App Installation

Download and install the DJI Fly app on your mobile device. Launch the app and follow the on-screen instructions to activate the aircraft and remote controller.

4. Operating the Drone

4.1 Pre-Flight Checklist

- Ensure batteries are fully charged for both drone and remote controller.
- Check propellers for any damage or obstructions.
- Verify sufficient GPS signal (at least 7-8 satellites).
- Confirm no-fly zones (NFZs) using the DJI Fly app.
- Ensure clear line of sight to the drone.

4.2 Takeoff and Landing

To take off, place the drone on a flat, open surface. In the DJI Fly app, tap the auto-takeoff button and confirm. For landing, tap the auto-landing button or manually descend using the left control stick.

Hand Launching and Landing:

Your browser does not support the video tag.

Video: Demonstrates the process of hand launching and landing the DJI Mavic 3 drone, showing the user holding the drone and initiating flight, then catching it upon return.

4.3 Flight Controls

The remote controller uses two sticks for flight control:

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

4.4 Intelligent Flight Modes

The DJI Mavic 3 offers several intelligent flight modes to enhance your flying and filming experience:

- **Tele Camera Pro Mode:** Allows manual parameter adjustments and RAW photos with the tele camera.
- **Smart Return to Home (RTH):** Automatically returns the drone to its home point when battery is low or signal is lost.
- **Adjustable Aperture:** Adjust f/2.8 aperture for optimal lighting conditions.

- **Omnidirectional Obstacle Sensing:** Detects obstacles in all directions and plans a safe flight path.

Your browser does not support the video tag.

Video: Demonstrates the DJI Mavic 3 Series' 28x Hybrid Zoom in Explore Mode, showcasing its capabilities for capturing distant subjects with clarity.

5. Maintenance

5.1 Battery Care

- Store batteries at 50-60% charge for long-term storage.
- Avoid overcharging or completely draining batteries.
- Charge batteries in a well-ventilated area away from flammable materials.

5.2 Propeller Inspection

Regularly inspect propellers for cracks, bends, or other damage. Replace damaged propellers immediately using the provided spares.

5.3 Cleaning

Wipe the drone body with a soft, damp cloth. Use a dry, soft brush to clean the camera lens and sensors. Avoid using harsh chemicals or abrasive materials.

6. Troubleshooting

6.1 No GPS Signal

Ensure you are in an open outdoor area away from tall buildings or strong magnetic interference. Restart the drone and remote controller.

6.2 Motor Overload Warning

This warning indicates that the motors are experiencing excessive load. Check for propeller obstructions or damage. Ensure the drone is not attempting to take off from an uneven or soft surface.

Your browser does not support the video tag.

Video: A user experiencing a motor overload warning during drone operation, highlighting a potential issue that requires troubleshooting.

6.3 Drone Not Responding to Controls

Check the remote controller's battery level. Ensure the drone and remote controller are properly linked. If the issue persists, perform a compass calibration.

7. Specifications

Feature	Detail
Brand	DJI
Model Name	DJIMAVIC3OB
Item Weight	895 Grams (1.97 pounds)
Product Dimensions	13.7"L x 11.1"W x 4.2"H
Video Capture Resolution	1080p (up to 5.1K/50fps or 4K/120fps for recording)
Effective Still Resolution	12 MP
Max Flight Time	46 Minutes

Max Transmission Range	15 Kilometers
Optical Sensor Technology	CMOS (4/3 CMOS Hasselblad Camera)
Connectivity Technology	Wi-Fi, USB

8. Warranty and Support

The DJI Mavic 3 comes with a standard manufacturer's warranty. For detailed warranty information, please refer to the official DJI website or the warranty card included in your package.

For technical support, troubleshooting, or service requests, please visit the official DJI Support page or contact their customer service directly.

Additional resources:

- Certificate of Compliance (PDF)
- Safety Information (PDF)
- User Manual (PDF)
- Visit the DJI Store

© 2024 DJI. All rights reserved. Information subject to change without notice.