DJI CP.MA.00000732.02

DJI Mini 4 Pro User Manual

Comprehensive Guide for Operation and Maintenance

Introduction to DJI Mini 4 Pro

The DJI Mini 4 Pro is an advanced, compact drone designed for both beginners and experienced pilots. Weighing less than 249 grams, it offers exceptional portability and often does not require registration in many regions. This drone features a powerful camera capable of 4K video recording and 48MP photos, omnidirectional obstacle sensing for enhanced safety, and extended flight times. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DJI Mini 4 Pro.



Image: The DJI Mini 4 Pro drone shown with its accompanying DJI RC 2 remote controller, highlighting its compact design and integrated screen.

Setup Guide

1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the "What's in the Box" section are present and undamaged.

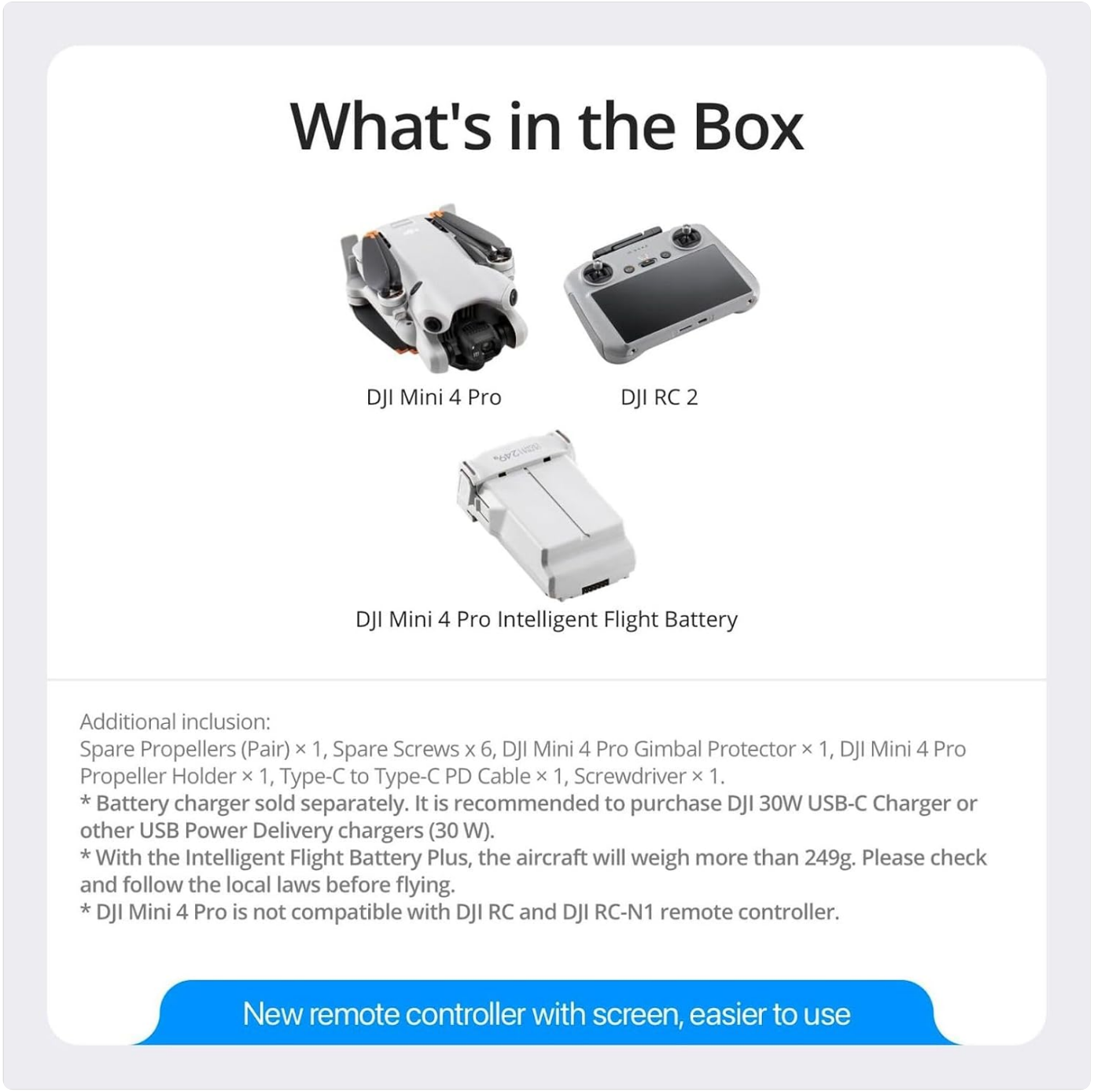


Image: A visual representation of the DJI Mini 4 Pro package contents, including the drone, DJI RC 2 remote controller, and Intelligent Flight Battery.

2. Battery Installation and Charging

Insert the Intelligent Flight Battery into the drone until it clicks securely into place. Connect the drone or battery to a power source using the provided Type-C to Type-C PD Cable. A 30W USB-C charger (sold separately) is recommended for optimal charging speed. Ensure the battery is fully charged before the first flight.

3. Propeller Installation

Attach the propellers according to the markings on the propellers and motor arms. Ensure they are securely fastened using the provided screwdriver and spare screws. Incorrect propeller installation can affect flight stability and safety.

4. App Installation and Activation

The DJI Mini 4 Pro requires the DJI Fly App for operation. Download the latest version of the DJI Fly App from the official DJI website. If using the DJI RC 2 remote controller, the app comes pre-installed. Follow the in-app instructions to activate your drone and remote controller.

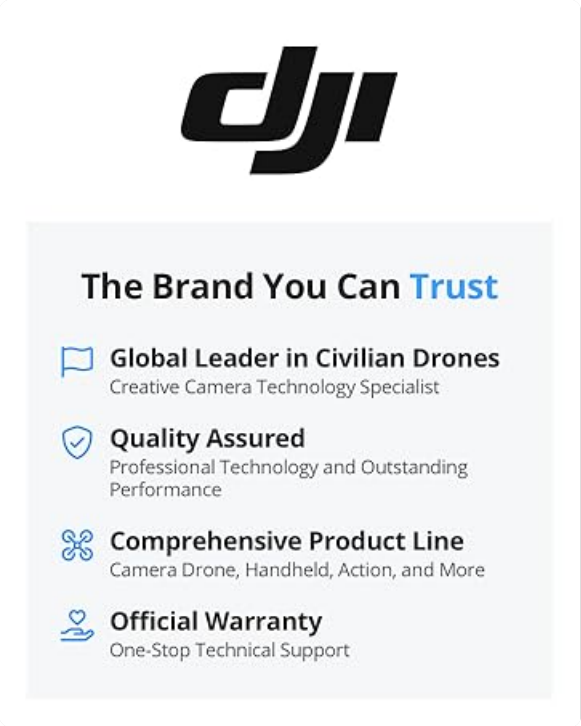


Image: A person holding the compact DJI Mini 4 Pro drone, demonstrating its portability and ease of handling.

Operating Instructions

1. Pre-Flight Checklist

- Ensure batteries for both drone and remote controller are fully charged.
- Check propellers for any damage and ensure they are securely attached.
- Verify the gimbal protector is removed before flight.
- Confirm sufficient storage space on the microSD card.
- Check local regulations and weather conditions before flying.

2. Taking Off and Landing

Place the drone on a flat, open surface. Power on the remote controller, then the drone. Wait for GPS signal acquisition. In the DJI Fly App, tap the auto-takeoff icon. For landing, either use the auto-land function or manually descend slowly to a clear area.

3. Flight Controls

The DJI Mini 4 Pro uses intuitive controls. The left stick typically controls altitude and yaw (rotation), while the right stick controls forward/backward and left/right movement. Familiarize yourself with the control sticks and buttons on the DJI RC 2 for precise maneuvering.

4. Intelligent Flight Features

- **Omnidirectional Obstacle Sensing:** The drone is equipped with sensors that detect obstacles in all directions, enhancing flight safety.
- **ActiveTrack 360°:** This feature allows the drone to track a subject from various angles, providing dynamic and cinematic shots.

- **Advanced RTH (Return-to-Home):** The drone can automatically return to its takeoff point, planning a safe route to avoid obstacles.
- **Cruise Control:** Maintain a constant flight speed and direction without continuous stick input.



Image: The DJI Mini 4 Pro navigating between trees, illustrating its omnidirectional obstacle sensing capabilities for safer flight.

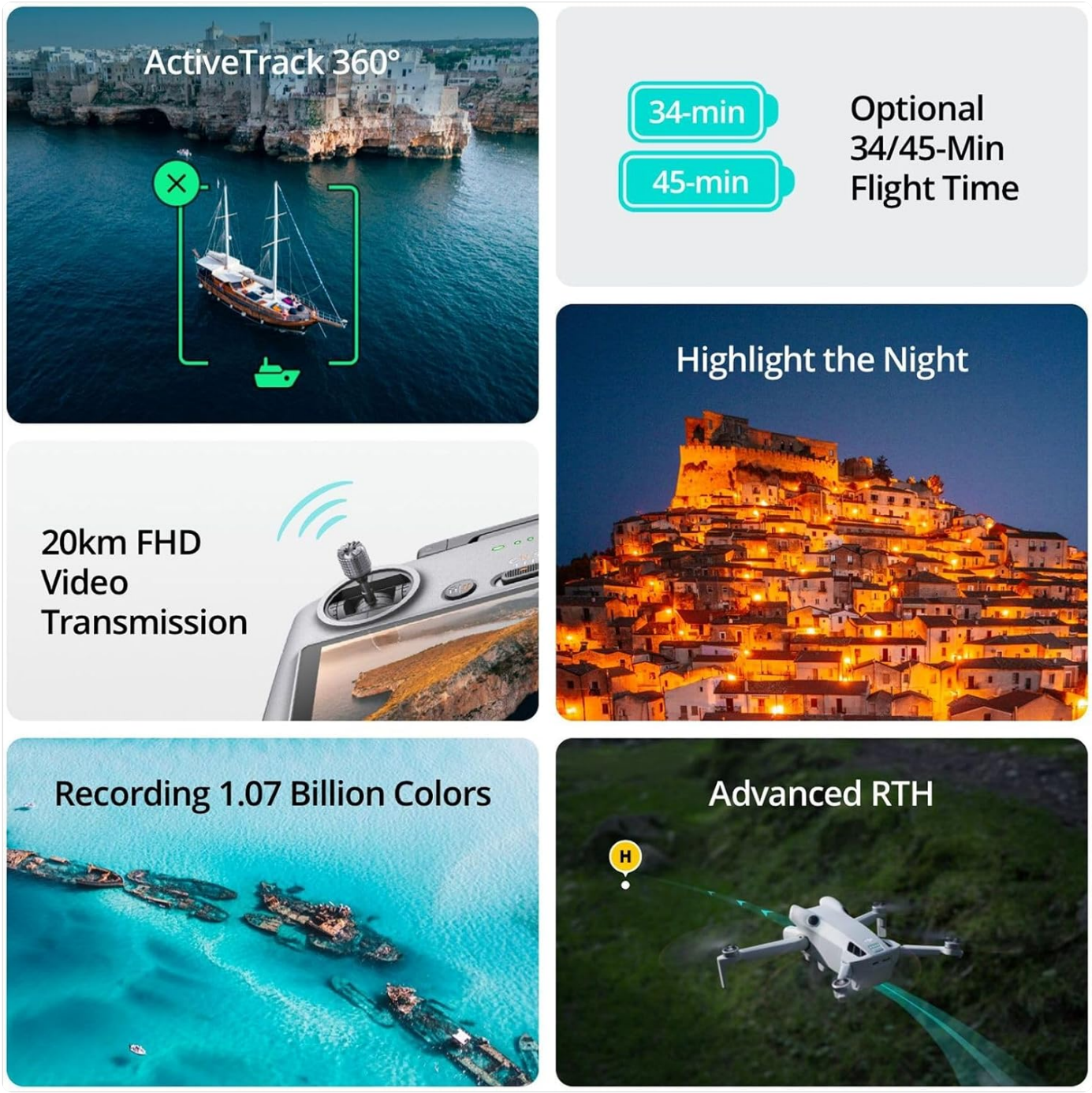


Image: An infographic detailing key features of the DJI Mini 4 Pro, including ActiveTrack 360°, extended flight time options, and 20km FHD video transmission.

5. Camera Operation

The DJI Mini 4 Pro features a 4K camera with 48MP photo capabilities. Use the dedicated buttons on the remote controller or the DJI Fly App interface to capture photos and videos. The drone supports True Vertical Shooting for social media-ready content and offers 4K/60fps HDR video and 4K/100fps slow-motion video.



Image: A visual summary of the DJI Mini 4 Pro's advanced imaging features, including 4K/60fps HDR video, 4K/100fps slow motion, and 48 MP RAW photo capture.

Maintenance

1. Cleaning

Regularly clean the drone body, propellers, and camera lens. Use a soft, dry cloth for the drone body. For the lens, use a specialized lens cleaning cloth and solution to avoid scratches. Ensure no dust or debris accumulates in the motor areas.

2. Battery Care

Store batteries in a cool, dry place. Avoid fully discharging or overcharging. If storing for extended periods, discharge batteries to approximately 50-60% capacity. Inspect battery tabs for any signs of wear or damage before each flight.

3. Propeller Inspection and Replacement

Inspect propellers for cracks, bends, or nicks before every flight. Damaged propellers can significantly impact flight performance and safety. Replace damaged propellers immediately using the spare propellers and screwdriver provided.

4. Firmware Updates

Keep your drone and remote controller firmware updated to ensure optimal performance and access to new features. Connect the aircraft with the remote controller, and the DJI Fly app will prompt you for updates. Follow the instructions carefully. Ensure stable internet connection and sufficient battery levels (above 20%) during updates.

Troubleshooting Guide

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not properly inserted	Charge the Intelligent Flight Battery; Reinsert battery securely.
No GPS signal	Flying indoors or in an area with poor satellite reception	Move to an open outdoor area; Wait for more satellites to connect.
Video transmission lag or disconnection	Strong interference; Exceeding max transmission distance	Fly in an open area with less interference; Stay within recommended transmission range.
Firmware update failure	Low battery; Disconnected network; App switched during update	Ensure battery is above 20%; Maintain stable network connection; Do not switch apps during update.
Drone drifts during flight	Compass interference; Propeller damage; IMU calibration needed	Calibrate compass in an open area away from magnetic interference; Replace damaged propellers; Perform IMU calibration via DJI Fly App.

For more detailed troubleshooting, refer to the official DJI Mini 4 Pro User Guide PDF available on the DJI website or through the link provided in the Support section.

Technical Specifications

Feature	Detail
Model Name	DJI Mini 4 Pro
Item Model Number	CP.MA.00000732.02
Weight	249 Grams (Under 0.55 lbs)

Feature	Detail
Video Capture Resolution	4K
Effective Still Resolution	48 MP
Max Transmission Distance	20 Kilometers (FCC)
Obstacle Sensing	Omnidirectional
Flight Time (Standard Battery)	Up to 34 minutes
Connectivity	Bluetooth, Wi-Fi
Included Components	DJI Mini 4 Pro, DJI RC 2, Intelligent Flight Battery, Spare Propellers, Spare Screws, Gimbal Protector, Propeller Holder, Type-C to Type-C PD Cable, Screwdriver

Which is the Best for You?

	Currently browsing  DJI Mini 4 Pro	 DJI Mini 3 Pro	 DJI Mini 3
Weight	<249 g	<249 g	<249 g
Wide-Angle Camera Sensor	1/1.3-inch CMOS	1/1.3-inch CMOS	1/1.3-inch CMOS
True Vertical Shooting	√	√	√
Video Resolution	**4K/60fps HDR**	4K/60fps, 4K/30fps HDR	4K/30fps HDR
Slow Motion	**4K/100fps**	1080p/120fps	x
Color Mode	**10-bit D-Log M, HLG**	D-Cinelike	x
Max Transmission Distance	**DJI O4, 20 km, 1080p/60fps**	DJI O3, 12 km, 1080p/30fps	DJI O2, 10 km, 720p/30fps
Obstacle Sensing	**Omnidirectional**	Forward/Backward/ Downward	Downward

Image: A comparative chart highlighting the differences and upgrades between the DJI Mini 4 Pro, Mini 3 Pro, and Mini 3 models.

Warranty and Support

Warranty Information

DJI products typically come with a limited warranty covering manufacturing defects. For specific warranty terms and conditions, please refer to the official DJI website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, product inquiries, or service requests, please visit the official DJI Support website. You can also find comprehensive FAQs, video tutorials, and contact information for customer service.

Official User Guide: For a detailed user guide, you can download the PDF version from the official DJI website:DJI Mini 4 Pro User Guide (PDF)
Safety Information: For important safety guidelines, refer to the Safety Information PDF:Safety Information (PDF)
Troubleshooting Guide (PDF): An additional troubleshooting guide is available here:Troubleshooting Guide (PDF)

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

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question