DJI Mini 4 Pro

DJI Mini 4 Pro Fly More Combo with DJI RC 2 User Manual

Model: Mini 4 Pro

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your DJI Mini 4 Pro Fly More Combo with DJI RC 2. Please read this manual thoroughly before use and retain it for future reference. The DJI Mini 4 Pro is a compact and lightweight drone designed for aerial photography and videography, featuring advanced imaging capabilities and intelligent flight functions.

Figure 1.1: DJI Mini 4 Pro Fly More Combo with DJI RC 2 components.
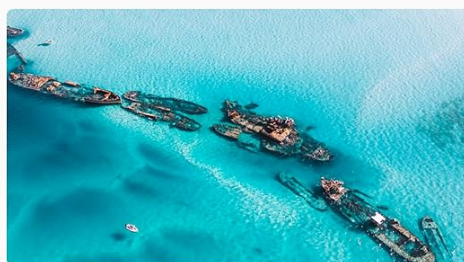
2. WHAT'S IN THE BOX

The DJI Mini 4 Pro Fly More Combo (DJI RC 2) includes the following items:

- DJI Mini 4 Pro Aircraft x 1
- DJI RC 2 Remote Controller x 1
- DJI Mini 4 Pro Intelligent Flight Battery x 3
- DJI Mini 4 Pro/Mini 3 Series Two-Way Charging Hub x 1
- DJI Mini Shoulder Bag x 1
- Spare Propellers (Pair) x 3
- Spare Screws x 18
- Gimbal Protector x 1
- Propeller Holder x 1
- Type-C to Type-C PD Cable x 1
- Screwdriver x 1
- USB Type-C Cable x 1

4K/60fps HDR Video
Keep the wonder of any moment. 4K/60fps HDR lets you capture light in true-to-life quality.

Recording 1.07 Billion Colors
10 bit D-Log M brings natural colors and rich details, unlocking pro-level post-production control.

Figure 2.1: Included components in the Fly More Combo.

3. SETUP

3.1 Unfolding the Aircraft

1. Remove the gimbal protector.
2. Unfold the front arms first, then the rear arms.
3. Ensure all propellers are free to rotate.

Figure 3.1: Folded DJI Mini 4 Pro aircraft.

Figure 3.2: Unfolding the aircraft arms.

3.2 Battery Installation

Insert a fully charged Intelligent Flight Battery into the battery compartment at the rear of the aircraft until it clicks into place.

3.3 Remote Controller Setup (DJI RC 2)

The DJI RC 2 remote controller features a built-in 5.5-inch 1080p FHD screen. To prepare for flight:

1. Screw the control sticks into the remote controller.
2. Extend the antennas for optimal signal.

Figure 3.3: DJI RC 2 Remote Controller.

3.4 Micro SD Card (Optional)

For full resolution footage, it is recommended to insert a micro SD card into the aircraft's designated slot. Without an SD card, footage will be saved to the DJI Fly App at a lower resolution.

3.5 Software and Firmware Updates

Ensure your aircraft and remote controller firmware are up to date. Connect the aircraft with the remote controller. The DJI Fly app will prompt you for firmware updates if available. Follow the instructions to update the firmware of the aircraft, remote controller, battery, and other modules. For the latest aircraft firmware, the Remote ID will only be activated when the Intelligent Flight Battery Plus is used.

Note: The aircraft will restart multiple times during an update and automatically power off after completing the update.

4. OPERATING THE DJI MINI 4 PRO

4.1 Basic Flight Controls

Familiarize yourself with the DJI RC 2 control sticks for precise flight maneuvers. The DJI Fly app provides a real-time view

from the drone's camera.

4.2 Flight Modes

The DJI Mini 4 Pro offers various flight modes to suit different flying styles and scenarios:

- **Cinema Mode:** Provides slow and smooth movements for cinematic shots.
- **Normal Mode:** Standard flight mode for general use.
- **Sport Mode:** Offers increased speed and responsiveness for dynamic flying.

4.3 Camera Operation

The DJI Mini 4 Pro is equipped with a powerful camera system:

- **4K/60fps HDR Video:** Capture stunning video with impressive clarity and dynamic range.
- **48 MP Photos:** High-resolution still images in DNG, JPEG, and RAW formats.
- **True Vertical Shooting:** Record vertical videos optimized for social media platforms without cropping.
- **4K/100fps Slow Motion:** Capture detailed slow-motion footage in 4K clarity.
- **Digital Zoom:** Up to 3x zoom for photos and 4x zoom for videos.

Figure 4.1: True Vertical Shooting capability.

4.4 Intelligent Features

Enhance your flight experience with these intelligent functions:

- **Omnidirectional Obstacle Sensing:** With precise detection capabilities in all directions, the drone can better detect and avoid obstacles, enhancing safety.
- **ActiveTrack 360°:** Customize your drone's tracking trajectory for complex and seamless operation effects.
- **Advanced Return to Home (RTH):** The drone can plan a safe flight route back to its home point, with the process displayed via AR.
- **Waypoint Flight:** Plan and execute precise flight paths for repeatable shots.
- **Cruise Control:** Set parameters for various movements, such as increasing altitude while orbiting a subject.

Out-sized Imaging Performance

Capture more details with Mini 4 Pro's 1/1.3" CMOS sensor camera. High dynamic range ensures uncompromising results.

1/1.3-inch CMOS sensor

Dual Native ISO Fusion
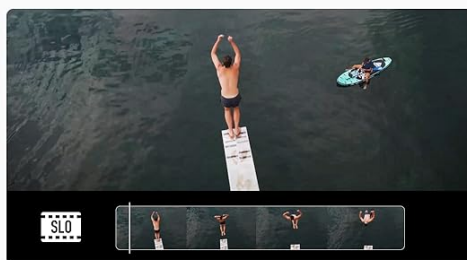f/1.7 aperture
2.4μm 4-in-1 pixels [4]

Figure 4.2: Omnidirectional Obstacle Sensing in action.

4.5 Video Transmission

The DJI Mini 4 Pro features Flagship O4 Video Transmission, providing ultra-responsive control and smooth 1080p/60fps FHD live feed image quality up to 20 km (12 mi) in FCC standard environments. Max transmission distance varies by interference level:

- **Unobstructed:** Strong Interference (urban landscape, approx. 1.5-4 km), Medium Interference (suburban landscape, approx. 4-10 km), Low Interference (suburb/seaside, approx. 10-20 km).
- **Obstructed:** Low Interference and Obstructed by Buildings (approx. 0-0.5 km), Low Interference and Obstructed by Trees (approx. 0.5-3 km).

Data tested under FCC standard in an unobstructed environment without interference. Used for reference purposes only and provides no guarantee for actual transmission distance.

Shocking 4K/100fps Slo-Mo Video

With slow motion in 4K clarity, capture the action on the trails, at the beach, or in your own backyard at 100fps.

Highlight the Night

The Mini 4 Pro's Night Shots video effectively suppresses noise and delivers clearer, cleaner footage.

Figure 4.3: O4 Video Transmission range.

4.6 Battery Life

The Intelligent Flight Batteries provide up to 34 minutes of flight time. With the Fly More Combo Plus, you can get three batteries with a total flight time of up to 135 minutes. Using the Intelligent Flight Battery Plus will increase the aircraft's weight to over 249 g.

Figure 4.4: Extended battery life for longer flights.

4.7 Flight Safety and Regulations

The DJI Mini 4 Pro aircraft weighs less than 249 g when used only with the DJI Mini 4 Pro Intelligent Flight Battery, potentially exempting it from certain registration requirements for recreational purposes in some regions. However, always check and strictly follow the latest local laws and regulations before flying. If your drone needs to be registered, such as for commercial purposes, please fly with the Intelligent Flight Battery Plus.

5. MAINTENANCE

- **Propeller Care:** Regularly inspect propellers for damage. Replace any bent, cracked, or chipped propellers using the provided screwdriver and spare screws.
- **Gimbal Protection:** Always attach the gimbal protector when the drone is not in use or during transport to prevent damage to the camera and gimbal.
- **Battery Storage:** Store batteries in a cool, dry place. Avoid extreme temperatures. If not used for extended periods, discharge batteries to approximately 50% for optimal longevity.
- **Cleaning:** Keep the drone and remote controller clean and free of dust and debris. Use a soft, dry cloth for cleaning.

6. TROUBLESHOOTING

6.1 Update Failures

Update failures can occur due to several factors:

- Battery level of the aircraft or remote controller is below 20%.
- Aircraft or remote controller is powered off during an update.
- Network is disconnected during a firmware download.
- Smartphone interface is switched to other apps during a firmware download.

If an update fails, ensure sufficient battery, stable network, and restart the aircraft and remote controller, then try again.

6.2 Lost Drone / Return to Home Issues

The drone's Advanced RTH feature allows it to automatically return to its takeoff location. If signal is lost or battery is critically low, the drone will initiate RTH. Ensure the home point is accurately recorded before flight.
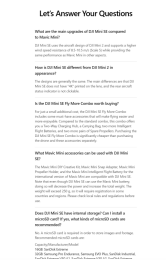
7. SPECIFICATIONS

Feature	Detail
Brand	DJI
Model Name	DJI Mini 4 Pro
Item Weight	249 Grams (8.8 ounces)
Product Dimensions	5.8"L x 3.7"W x 2.52"H
Video Capture Resolution	4K
Effective Still Resolution	48 MP
Optical Sensor Technology	CMOS
Connectivity Technology	Bluetooth, Wi-Fi
Maximum Range	20 Kilometers
Battery Cell Composition	Lithium Ion
Special Features	Extended Flight Time, Foldable, Lightweight, Obstacle Avoidance, One Button Return

8. WARRANTY AND SUPPORT

For official warranty information and technical support, please refer to the DJI official website or contact their customer service. Protection plans are available for purchase separately to cover potential damages or malfunctions.

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan)

Related Documents - Mini 4 Pro

[DJI Mini 4 Pro User Manual: Features, Flight, and Safety Guide](#)
Explore the DJI Mini 4 Pro with its comprehensive user manual. Learn about its advanced camera, intelligent flight modes, transmission technology, setup, and safety guidelines for optimal drone operation.

[DJI Mini SE: Frequently Asked Questions and Answers](#)
Answers common questions about the DJI Mini SE drone, covering upgrades compared to Mavic Mini, differences from DJI Mini 2, the Fly More Combo, accessory compatibility, storage, resolutions, flight altitude, charging, app usage, and beginner tips.

[DJI Avata 2 Fly More Combo (3 Batteries) Technical Specifications](#)

Explore the detailed technical specifications of the DJI Avata 2 Fly More Combo (3 Batteries), covering aircraft performance, camera capabilities, video transmission range, battery life, and remote control features.

[DJI NEO 2 Safety Guidelines and Specifications | Fly More Combo](#)

Comprehensive safety guidelines, operating instructions, and technical specifications for the DJI NEO 2 drone, including the Fly More Combo, covering flight environment, operation, and battery safety.

[DJI Avata 2 User Manual: Comprehensive FPV Drone Operation Guide](#)

Explore the DJI Avata 2 FPV drone with this official user manual. Learn about flight operations, safety guidelines, specifications, and how to use DJI Goggles 3 and DJI RC Motion 3 for an immersive flying experience.

[DJI Neo Fly More Combo Safety Guidelines](#)

This document provides safety guidelines for the DJI Neo Fly More Combo, covering flight environment, operation, and intelligent flight battery usage. It includes warnings and precautions to ensure safe operation of the drone.