



MINI 4 Pro REVIEW



Prepared By :

FLY WORLD GADGET

Introduction

The DJI Mini 4 Pro is a compact yet powerful drone that builds upon the success of its predecessors in the Mini series. As part of DJI's line-up of small, portable drones, the Mini 4 Pro is designed to offer professional-level features in a lightweight and user-friendly package. Whether you're a hobbyist or a content creator, the Mini 4 Pro is packed with advanced features that elevate your drone flying and photography experience.

The DJI Mini 4 Pro is an excellent option for users who want high-quality aerial footage without the need for large, expensive drones. With its portability, advanced camera, and intelligent features, it's perfect for travelers, vloggers, and drone enthusiasts looking to up their aerial photography game.



Key Features :-

- Mini 4K camera drone for professionals and beginner enthusiasts.
- Weights just 249g, allowing an agile and easy flightpath.
- The ideal compact drone for travel and content creation.
- Shoots stunning 4K/60fps HDR footage and 100fps in slow motion
- 1/1.3-inch CMOS Wide-Angle Camera with 24MP for lifelike detail.
- Shoots using 10-bit D-Log M HLG for excellent imaging results.
- Ultra-responsive omnidirectional obstaclesensing.
- Extended Battery Life of up to 34 minutes flight time.
- Smooth 1080p/60fps FHD live feeds from up to 20 km away.
- New ActiveTrack 360° with enhanced subjecttracking capabilities



Aircraft :-

- Standard aircraft weight (including the Intelligent Flight Battery, propellers, and a microSD card). The actual product weight may vary due to differences in batch materials and external factors. Registration is not required in some countries and regions. Always check local laws and regulations before use. With the Intelligent Flight Battery Plus* , the aircraft will weigh more than 249 g. Always check and strictly abide by local laws and regulations before flying. * The Intelligent Flight Battery Plus is not sold in Europe.
- **Dimensions :-**
- Folded (without propellers) : 148×94×64 mm (L×W×H)
- Unfolded (with propellers): 298×373×101 mm (L×W×H)
- **Max Ascent Speed :-**
- 5 m/s (S Mode)
- 5 m/s (N Mode)
- 3 m/s (C Mode)
- **Max Descent Speed :-**
- 5 m/s (S Mode)
- 5 m/s (N Mode)
- 3 m/s (C Mode)
- **Max Horizontal Speed (at sea level, no wind) :-**
- 16 m/s (S Mode)
- 12 m/s (N Mode)
- 12 m/s (C Mode)
- The max horizontal speed is subject to dynamic local restrictions. Always abide by local laws and regulations when flying.



Aircraft :-

- **Max Takeoff Altitude**
- With DJI Mini 4 Pro Intelligent Flight Battery: 4000 m.
- With DJI Mini 3 Series Intelligent Flight Battery Plus*: 3000 m
- Increase in aircraft weight can affect flight propulsion. When the aircraft is using the Intelligent Flight Battery Plus, do not mount additional payloads like a propeller guard or third-party accessories to avoid diminished propulsion.
- * The Intelligent Flight Battery Plus is not sold in Europe.
- **Max Flight Time**
- 34 minutes (with Intelligent Flight Battery)
- 45 minutes (with Intelligent Flight Battery Plus)*
- Measured in a controlled test environment. Specific test conditions are as follows: flying forward at a constant speed of 21.6 kph in a windless laboratory environment at 20 meters above sea level, in photo mode (without photo taking operation during flight), with Obstacle Avoidance Action set to Off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.
- * The Intelligent Flight Battery Plus is not sold in Europe.
- **Max Hovering Time**
- 30 minutes (with Intelligent Flight Battery)
- 39 minutes (with Intelligent Flight Battery Plus)*
- Measured in a controlled test environment. Specific test conditions are as follows: hovering in a windless laboratory environment at 20 meters above sea level, in photo mode (without photo taking operation during flight) with Obstacle Avoidance Action set to Off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.
- * The Intelligent Flight Battery Plus is not sold in Europe



Aircraft :-

- **Max Flight Distance**
- 18 km (with Intelligent Flight Battery and measured while flying at 40.7 kph in a windless environment at 20 meters above sea level)
- 25 km (with Intelligent Flight Battery Plus* and measured while flying at 44.3 kph in a windless environment at 20 meters above sea level)
- * The Intelligent Flight Battery Plus is not sold in Europe.
- **Max Wind Speed Resistance**
- 10.7 m/s
- **Max Pitch Angle**
- 35°
- **Operating Temperature**
- -10° to 40° C (14° to 104° F)
- **Global Navigation Satellite System**
- GPS + Galileo + BeiDou
- **Hovering Accuracy Range (windless or breezy)**
- **Vertical:**
- ±0.1 m (with vision positioning)
- ±0.5 m (with GNSS positioning)
- **Horizontal:**
- ±0.1 m (with vision positioning)
- ±0.5 m (with GNSS positioning)
- **Internal Storage**
- 2 GB



Camera :-

- **Image Sensor**
- 1/1.3-inch CMOS, Effective Pixels: 48 MP
- **Lens**
- FOV: 82.1°
- Format Equivalent: 24 mm
- Aperture: f/1.7
- Focus: 1 m to ∞
- **ISO Video Range**
- **Normal and Slow Motion:**
- 100-6400 (Normal)
- 100-1600 (D-Log M)
- 100-1600 (HLG)
- **Night:**
- 100-12800 (Normal)
- **Photo**
- 12 MP: 100-6400, 48 MP: 100-3200
- **Shutter Speed**
- 12MP Photo: 1/16000-2 s (2.5-8 s for simulated long exposure)
- 48MP Photo: 1/8000-2 s
- **Max Image Size**
- 8064×6048
- **Still Photography Modes**
- Single Shot: 12 MP and 48 MP
- Burst Shooting:
- 12 MP - 3/5/7 frames , 48 MP - 3 frames
- **Automatic Exposure Bracketing (AEB):**
- 12 MP, 3/5/7 frames at 0.7 EV step



Camera :-

- **Photo Format**
- JPEG/DNG (RAW)
- **Video Resolution**
- H.264/H.265
- 4K: 3840×2160@24/25/30/48/50/60/100*fps
- FHD: 1920×1080@24/25/30/48/50/60/100*/200*fps
- * Recording frame rates. The corresponding video plays as slowmotion video. 4K/100fps and HLG/D-Log M only support H.265 coding.
- **Video Format**
- MP4 (MPEG-4 AVC/H.264, HEVC/H.265)
- **Max Video Bitrate**
- H.264/H.265: 150 Mbps
- **Supported File System**
- exFAT
- **Color Mode and Sampling Method**
- **Normal:**
- 8-bit 4:2:0 (H.264/H.265)
- HLG/D-Log M:
- 10-bit 4:2:0 (H.265)
- **Digital Zoom**
- 12MP Photo: 1-2x
- 4K: 1-3x
- FHD: 1-4x

BATTERY :-

1. Up to 34 Minutes of Flight Time

With its 2490mAh battery, the Mini 4 Pro offers up to 34 minutes of flight time under ideal conditions (calm weather and optimal flight settings). This is a significant improvement over earlier models, giving more time for shooting and exploring.

2. Battery Intelligent Management System

The Mini 4 Pro uses an intelligent battery management system, which ensures the battery is optimized for safe usage. This system monitors the health of the battery and prevents overcharging, overdischarging, and overheating, helping to extend the battery's overall lifespan.

3. Fast Charging Capability

The Mini 4 Pro supports fast charging, so you can quickly recharge the battery when needed. It is compatible with the DJI 30W USB-C charger, which allows for faster recharging times.



4. Low Battery Warning and RTH (Return to Home) Feature

The drone has built-in safety features like low battery warnings. When the battery gets low, it will alert you to return the drone to its starting point. If the battery level becomes critically low, the drone will automatically initiate Return to Home (RTH) to avoid power loss mid-flight.

5. Battery Protection for Safe Storage

The battery includes storage protection features to ensure it is stored safely, especially if you are not using it for extended periods. The drone's battery has a built-in protection mechanism to ensure the charge does not fall below a certain level during inactivity.

6. Battery Life with Active Track and Advanced Features

When using more power-demanding features such as ActiveTrack, FocusTrack, or advanced video recording modes, you may see a slight reduction in flight time. The system optimizes power for performance, but you can still expect around 28-30 minutes of use in real-world scenarios.

7. Compatibility with Mini 4 Pro Charging Hub

The DJI Mini 4 Pro is compatible with the DJI Mini 4 Pro Charging Hub, which allows you to charge multiple batteries in sequence, making it easier to stay in the air for extended sessions if you have extra batteries on hand.





SENSING :-

Omnidirectional Obstacle Sensing

- The Mini 4 Pro is equipped with 4-directional obstacle sensors (front, rear, bottom and top). This allows the drone to detect obstacles from all angles, significantly improving its ability to avoid crashes and fly safely in complex environments.
- The sensors use Vision Sensors and Infrared to detect objects, allowing the drone to automatically stop or reroute if an obstacle is detected.

Forward

- Measurement Range: 0.5-18 m
- Detection Range: 0.5-200 m
- Effective Sensing Speed: Flight Speed \leq 12 m/s
- FOV: Horizontal 90°, Vertical 72°

Backward

- Measurement Range: 0.5-15 m
- Effective Sensing Speed: Flight Speed \leq 12 m/s
- FOV: Horizontal 90°, Vertical 72°

Lateral

- Measurement Range: 0.5-12 m
- Effective Sensing Speed: Flight Speed \leq 12 m/s
- FOV: Horizontal 90°, Vertical 72°

Upward

- Measurement Range: 0.5-15 m
- Effective Sensing Speed: Flight Speed \leq 5 m/s
- FOV: Front and Back 72°, Left and Right 90°

Downward

- Measurement Range: 0.3-12 m
- Effective Sensing Speed: Flight Speed \leq 5 m/s
- FOV: Front and Back 106°, Left and Right 90°



SENSING :-

Operating Environment

- Forward, Backward, Left, Right, and Upward:
- Surfaces with discernible patterns and adequate lighting (lux > 15)
- Downward:
- Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g. walls, trees, people), and adequate lighting (lux > 15)

Smart RTH (Return to Home)

- The Mini 4 Pro uses its sensors to intelligently execute Smart RTH (Return to Home). When triggered by low battery or signal loss, the drone will navigate back to its takeoff point by detecting and avoiding obstacles along the way. The RTH system uses both GPS and visual sensors for a safe and efficient return.

ActiveTrack 360°

- ActiveTrack is an intelligent feature that allows the Mini 4 Pro to follow and track subjects while avoiding obstacles. With its 360° obstacle sensing, it can track a subject from any direction, whether it's in front, behind, or even flying above or below the drone. This gives you more freedom to shoot dynamic and complex shots without having to worry about collisions.

DJI RC 2 CONTROLLER



Compatible with both DJI Rc 2 Controller and DJI Rc-N2 Controller.

Built-in Screen

- The RC 2 comes with a 5.5-inch HD screen with a 700 nits brightness, offering a clear view even in bright sunlight.
- It eliminates the need for connecting a smartphone to the controller, making setup quicker and reducing distractions.

OcuSync 3.0+

- The RC 2 uses OcuSync 3.0+ technology, offering a reliable, low-latency connection between the controller and the drone.
- It provides up to 15 km of video transmission range (depending on region and regulations), which ensures a stable connection even at long distances.

Battery Life

- The RC 2 has a smart battery with a long battery life of up to 4.5 hours of continuous use, depending on conditions.

DJI Fly App Integration

- The controller integrates with the DJI Fly App, allowing for real-time monitoring of flight data, video feed, and camera settings directly on the built-in screen.
- It supports easy access to intelligent flight modes, such as ActiveTrack, QuickShots, and more.

Advanced Control Features

- The controller supports precise joystick controls, allowing for smooth drone maneuvering.
- The HDR video support on the built-in screen allows users to view high-quality footage in real time.

DJI RC-N2 CONTROLLER



SPECIFICATION :-

Max Operating Time

- Without charging any mobile device: 6 hours
- When charging a mobile device: 3.5 hours

Max Supported Mobile Device Size

- 180×86×10 mm (L×W×H)

Operating Temperature

- -10° to 40° C (14° to 104° F)

Charging Temperature

- 5° to 40° C (41° to 104° F)

Charging Time

- 2.5 hours

Charging Type

- It is recommended to use a 5V/2A charger.

Battery Capacity

- 18.72 Wh (3.6 V, 2600 mAh × 2)

Supported Mobile Device Port Type

- Lightning, USB-C, Micro-USB
- * Using a mobile device with Micro-USB port requires the DJI RC-N1 RC Cable (Standard Micro USB connector), which is sold separately.

Video Transmission Operating Frequency

- 2.4000-2.4835 GHz
- 5.170-5.250 GHz
- 5.725-5.850 GHz

Transmitter Power (EIRP)

- 2.4 GHz:
 - < 33 dBm (FCC)
 - < 20 dBm (CE/SRRC/MIC)
- 5.1 GHz:

SPECIFICATION

GIMBAL :-

Stabilization

- 3-axis mechanical gimbal (tilt, roll, pan)

Mechanical Range

- Tilt: -135° to 80°
- Roll: -135° to 45°
- Pan: -30° to 30°

Controllable Range

- Tilt: -90° to 60°
- Roll: -90° or 0°

Max Control Speed (tilt)

- 100°/s Angular

Vibration Range

- ±0.01°

CHARGING HUB :-

Input

- 5 V, 3 A
- 9 V, 3 A
- 12 V, 3 A

Output

- USB-A: Max Voltage: 5 V; Max Current: 2 A

Charging Type

- Three batteries charged in sequence.

Compatibility

- DJI Mini 4 Pro Intelligent Flight Battery, DJI Mini 3 Series Intelligent Flight Battery/Intelligent Flight Battery Plus
- * The Intelligent Flight Battery Plus is not sold in Europe

DJI MINI 4 PRO

Mini to the Max



CONS :-

- Still far from crashproof
- A bit expensive
- Not the best for night scenes

PROS :-

- Maneuverable.
- Improved obstacle avoidance.
- New ActiveTrack 360 feature is great.
- Solid image quality.

IN THE BOX



DJI Mini 4 Pro



DJI RC 2 Remote Controller



Type-C to Type-C PD Cable



Intelligent Flight Battery Plus x 3



Propellers (Pair) x 3



Two Way Charging Hub



Gimbal Protector



Screwdriver



USB-C Cable



Propeller Holder



Spare Screws x 18

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REGISTERED OFFICE:-

2nd floor, Main 100
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FOR MORE INFO!

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