MAVIC 2 PRO SPECIFICATIONS

MAVIC 2 PRO CAMERA

Sensor
1” CMOS
Effective Pixels: 20 million

Lens
FOV: about 77°
35 mm Format Equivalent: 28 mm
Aperture: f/2.8–f/11
Shooting Range: 1 m to ∞

ISO Range
Video:
100-6400
Photo:
100-3200 (auto)
100-12800 (manual)

Shutter Speed
Electronic Shutter: 8–1/8000s

Still Image Size
5472×3648

Still Photography Modes
Single shot
Burst shooting: 3/5 frames
Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV
Bias
Interval (JPEG: 2/3/5/7/10/15/20/30/60s
RAW:5/7/10/15/20/30/60s)

Video Resolution
4K: 3840×2160 24/25/30p
2.7K: 2688x1512 24/25/30/48/50/60p
FHD: 1920×1080 24/25/30/48/50/60/120p

Max Video Bitrate
100Mbps

Color Mode
Dlog-M (10bit), support HDR video (HLG 10bit)

Supported File System
FAT32 (≤ 32 GB)
exFAT (> 32 GB)
**Photo Format**
JPEG / DNG (RAW)

**Video Format**
MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265)

## AIRCRAFT

**Takeoff Weight**
907 g

**Dimensions**
Folded:
214×91×84 mm (length×width×height)

Unfolded:
322×242×84 mm (length×width×height)

**Diagonal Distance**
354 mm

**Max Ascent Speed**
5 m/s (S-mode)

4 m/s (P-mode)

**Max Descent Speed**
3 m/s (S-mode)

3 m/s (P-mode)

**Max Speed (near sea level, no wind)**
72 kph (S-mode)

**Max Service Ceiling Above Sea Level**
6000 m

**Max Flight Time (no wind)**
31 minutes (at a consistent 25 kph)

**Max Hovering Time (no wind)**
29 minutes

**Max Flight Distance (no wind)**
18 km (at a consistent 50 kph)

**Max Wind Speed Resistance**
29–38 kph

**Max Tilt Angle**
35° (S-mode, with remote controller) 25° (P-mode)

**Max Angular Velocity**
200°/s

**Operating Temperature Range**
-10°C to 40°C

**Operating Frequency**
2.400 - 2.483 GHz

5.725 - 5.850 GHz
### Transmission Power (EIRP)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>FCC</th>
<th>CE</th>
<th>SRRC</th>
<th>MIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.400 - 2.483 GHz</td>
<td>≤26 dBm</td>
<td>≤20 dBm</td>
<td>≤20 dBm</td>
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</tr>
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<td>5.725-5.850 GHz</td>
<td>≤26 dBm</td>
<td>≤14 dBm</td>
<td>≤26 dBm</td>
</tr>
</tbody>
</table>

### GNSS

- GPS+GLONASS

### Hovering Accuracy Range

- **Vertical:**
  - ±0.1 m (when vision positioning is active)
  - ±0.5 m (with GPS positioning)

- **Horizontal:**
  - ±0.3 m (when vision positioning is active)
  - ±1.5 m (with GPS positioning)

### Internal Storage

- 8 GB

### SENSING SYSTEM

**Sensing System:** Omnidirectional Obstacle Sensing

**Forward**

- **Precision Measurement Range:** 0.5 - 20 m
- **Detectable Range:** 20 - 40 m
- **Effective Sensing Speed:** ≤14 m/s
- **FOV:** Horizontal: 40°, Vertical: 70°

**Backward**

- **Precision Measurement Range:** 0.5 - 16 m
- **Detectable Range:** 16 - 32 m
- **Effective Sensing Speed:** ≤12 m/s
- **FOV:** Horizontal: 60°, Vertical: 77°

**Upward**

- **Precision Measurement Range:** 0.1 - 8 m

**Downward**

- **Precision Measurement Range:** 0.5 - 11 m
- **Detectable Range:** 11 - 22 m
Sides

Precision Measurement Range: 0.5 - 10 m
Effective Sensing Speed: ≤ 8m/s
FOV: Horizontal: 80°, Vertical: 65°

Operating Environment

Forward, Backward and Sides:
Surface with clear pattern and adequate lighting (lux > 15)
Upward:
Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)
Downward:
Surface with clear pattern and adequate lighting (lux > 15)
Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)

CHARGER

Input
100-240 V, 50/60 Hz, 1.8A

Output
Main: 17.6 V = 3.41 A
or 17.0 V = 3.53 A USB: 5 V = 2 A

Voltage
17.6 ± 0.1 V

Rated Power
60 W

APP

Video Transmission System
OcuSync 2.0

Name
DJI GO 4

Live View Quality
Remote Controller:
720p@30fps / 1080p@30fps
DJI Goggles:
720p@30fps / 1080p@30fps DJI Goggles RE:
720p@30fps / 1080p@30fps

Latency (depending on environmental conditions and mobile device)
120 - 130 ms

Max Live View Bitrate
40Mbps
### GIMBAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanical Range</strong></td>
<td>Tilt: -135–45° Pan: -100–100°</td>
</tr>
<tr>
<td><strong>Controllable Range</strong></td>
<td>Tilt: -90–30° Pan: -75–75°</td>
</tr>
<tr>
<td><strong>Stabilization</strong></td>
<td>3-axis (tilt, roll, pan)</td>
</tr>
<tr>
<td><strong>Max Control Speed (tilt)</strong></td>
<td>120° /s</td>
</tr>
<tr>
<td><strong>Angular Vibration Range</strong></td>
<td>±0.01° (Mavic 2 Pro)</td>
</tr>
<tr>
<td></td>
<td>±0.005° (Mavic 2 Zoom)</td>
</tr>
</tbody>
</table>

### INTELLIGENT FLIGHT BATTERY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>3850 mAh</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>15.4 V</td>
</tr>
<tr>
<td><strong>Max Charging Voltage</strong></td>
<td>17.6 V</td>
</tr>
<tr>
<td><strong>Battery Type</strong></td>
<td>LiPo 4S</td>
</tr>
<tr>
<td><strong>Energy</strong></td>
<td>59.29 Wh</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>297 g</td>
</tr>
<tr>
<td><strong>Charging Temperature Range</strong></td>
<td>5°C to 40°C</td>
</tr>
<tr>
<td><strong>Max Charging Power</strong></td>
<td>80 W</td>
</tr>
</tbody>
</table>

### SUPPORTED SD CARDS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supported SD Cards</strong></td>
<td>Micro SD™ Supporting Micro SD with capacity up to 128 GB and R/W speed up to UHS-I Speed Grade 3</td>
</tr>
<tr>
<td><strong>Recommended microSD Cards</strong></td>
<td>32G Sandisk V30 Sandisk Extreme V30 Pro 64G Sandisk Extreme Pro V30</td>
</tr>
</tbody>
</table>
128G
Sandisk Extreme V30
Sandisk Extreme Pro V30
Kingston Canvas Go!
Kingston Canvas React

FOOTNOTES

[1] Omnidirectional Obstacle Sensing includes left/right, up/down, and forward/backward obstacle sensing. Sensing for left/right directions is only available in ActiveTrack, POI, QuickShot and Tripod mode. Omnidirectional Obstacle Sensing does not fully cover the circumference of a 360-degree arc. And left and right obstacle sensing system only works in specific modes and environments. DJI warranty does not cover any loss caused by crashing when flying left or right, even when ActiveTrack or Tripod mode is activated. Please be aware of your surroundings and App notifications when operating the Mavic 2 to ensure safety.

These specs have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended.

SMART CONTROLLER SPECIFICATIONS

OCUSYNC 2.0

Operation Frequency Range 2.400-2.4835 GHz, 5.725-5.850 GHz

Max Transmission Distance (unobstructed, free of interference) 2.400-2.4835 GHz:
8 km (FCC), 4 km (CE), 4 km (SRRC), 4 km (MIC)
5.725-5.850 GHz:
8 km (FCC), 2 km (CE), 5 km (SRRC)
**Transmitter Power (EIRP)**

- **2.400-2.4835 GHz:**
  - 25.5 dBm (FCC), 18.5 dBm (CE), 19 dBm (SRRC), 18.5 dBm (MIC)
  - 5.725-5.850 GHz:
    - 25.5 dBm (FCC), 12.5 dBm (CE), 18.5 dBm (SRRC)

**BLUETOOTH**

**Protocol**

- Bluetooth 4.2

**Operation Frequency Range**

- 2.400-2.4835 GHz

**Transmitter Power (EIRP)**

- 4 dBm (FCC), 4 dBm (CE), 4 dBm (SRRC), 4 dBm (MIC)

**SUPPORTED SD CARDS**

**Supported SD Cards**

- microSD™

  Supports microSD cards with a capacity of up to 128 GB and R/W speed up to UHS-I Speed Grade 3

**WI-FI**

**Protocol**

- Wi-Fi Direct, Wireless Display, 802.11a/g/n/ac, Wi-Fi with 2×2 MIMO is supported

**Operation Frequency Range**

- 2.400-2.4835 GHz, 5.150-5.250 GHz
  - 5.725-5.850 GHz

**Transmitter Power (EIRP)**

- **2.400-2.4835 GHz:**
  - 21.5 dBm (FCC), 18.5 dBm (CE)
  - 18.5 dBm (SRRC), 20.5 dBm (MIC)
  - **5.150-5.250 GHz:**
    - 19 dBm (FCC), 19 dBm (CE)
    - 19 dBm (SRRC), 19 dBm (MIC)
GENERAL

Battery 18650 Li-ion (5000 mAh @ 7.2 V)

Charge Type Supports USB power adapters rated 12 V/2 A

Rated Power 15 W

Storage Capacity ROM 16 GB + scalable (microSD)

Charging Time 2 hours (using a USB power adapter rated 12 V/2 A)

Working Time 2.5 hours

Video Output Port HDMI Port

Power Supply Current / Voltage (USB-A port) 5 V/ 900 mA

Operation Temperature Range -4° to 104° F (-20° to 40° C)

Storage Temperature Range <1 month: -22° to 140° F (-30° to 60° C)
1-3 months: -22° to 113° F (-30° to 45° C)
3-6 months: -22° to 95° F (-30° to 35° C)
>6 months: -22° to 77° F (-30° to 25° C)

Charging Temperature Range 41° to 104° F (5° to 40° C)

Supported Aircraft Models Mavic 2 Pro, Mavic 2 Zoom

GNSS GPS/GLONASS

Dimensions 177.5 x 121.3 x 40 mm (antennas folded, and the control sticks unmounted)
177.5 x 181 x 60 mm (antennas unfolded, and the control sticks mounted)

Weight

Approx. 630 g

Model

RM500

FOOTNOTES

Footnotes

1. Local regulations in some countries prohibit the use of the 5.8 GHz and 5.2 GHz frequencies. In some regions, the 5.2 GHz frequency band is only allowed for indoor use.

2. The Smart Controller will support more DJI aircraft models in the future. Please visit the official website for the latest information.