

Specs

Mavic 3 PRO



Aircraft

- **Takeoff Weight**

- Mavic 3 Pro: 958 g
- Mavic 3 Pro Cine: 963 g

- **Dimensions**

- Folded (without propellers): 231.1×98×95.4 mm (L×W×H)
- Unfolded (without propellers): 347.5×290.8×107.7 mm (L×W×H)

- **Max Ascent Speed**

- 8 m/s

- **Max Descent Speed**

- 6 m/s

- **Max Horizontal Speed (at sea level, no wind)**
 - 21 m/s
- **Max Takeoff Altitude**
 - 6000 m
- **Max Flight Time**
 - 43 minutes

Measured in a controlled test environment. Specific test conditions are as follows: flying at a constant speed of 32.4 kph in a windless environment at sea level, with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.
- **Max Hovering Time**
 - 37 minutes

Measured in a controlled test environment. Specific test conditions are as follows: hovering in a windless environment at sea level, with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.
- **Max Flight Distance**
 - 28 km

The flight distance is different from the video transmission distance. The data was tested in a controlled environment, under the following specific test conditions: flying at a constant speed of 50.4 kph in a windless environment at sea level, with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.
- **Max Wind Speed Resistance**
 - 12 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**
 - Vertical:
±0.1 m (with vision positioning)

±0.5 m (with satellite positioning)

Horizontal:

±0.3 m (with vision positioning)

±0.5 m (with satellite positioning)

- **Internal Storage**

- Mavic 3 Pro: 8 GB (approx. 7.9GB available space)

Mavic 3 Pro Cine: 1 TB (approx. 934.8GB available space)

- **Class**

- C2 (EU)

Camera

- **Image Sensor**

- Hasselblad Camera: 4/3 CMOS, Effective Pixels: 20 MP

Medium Tele Camera: 1/1.3" CMOS, Effective Pixels: 48 MP

Tele Camera: 1/2" CMOS, Effective Pixels: 12 MP

- **Lens**

- Hasselblad Camera

FOV: 84°

Format Equivalent: 24mm

Aperture: f/2.8-f/11

Focus: 1 m to ∞

Medium Tele Camera

FOV: 35°

Format Equivalent: 70mm

Aperture: f/2.8

Focus: 3 m to ∞

Tele Camera

FOV: 15°

Format Equivalent: 166mm

Aperture: f/3.4

Focus: 3 m to ∞

- **ISO Range**

- Video

Normal and Slow Motion:

100-6400 (Normal)
400-1600 (D-Log)
100-1600 (D-Log M)
100-1600 (HLG)

Night:
800-12800 (Normal)

Photo
100-6400

- **Shutter Speed**

- Hasselblad Camera: 8-1/8000 s
Medium Tele Camera: 2-1/8000 s
Tele Camera: 2-1/8000 s

- **Max Image Size**

- Hasselblad Camera: 5280×3956
Medium Tele Camera: 8064×6048
Tele Camera: 4000×3000

- **Still Photography Modes**

- Hasselblad Camera
Single Shot: 20 MP
Burst Shooting: 20 MP, 3/5/7 frames
Automatic Exposure Bracketing (AEB): 20 MP, 3/5 frames at 0.7 EV step
Timed: 20 MP, 2/3/5/7/10/15/20/30/60 s

Medium Tele Camera

Single Shot: 12 MP or 48 MP

Burst Shooting: 12 MP or 48 MP, 3/5/7 frames

Automatic Exposure Bracketing (AEB): 12 MP or 48 MP, 3/5 frames at 0.7 EV step

Timed:

12 MP: 2/3/5/7/10/15/20/30/60 s

48 MP: 7/10/15/20/30/60 s

Tele Camera

Single Shot: 12 MP

Burst Shooting: 12 MP, 3/5/7 frames

Automatic Exposure Bracketing (AEB): 12 MP, 3/5 frames at 0.7 EV step

Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s

- **Photo Format**

- JPEG/DNG (RAW)

- **Video Resolution**

- Hasselblad Camera

Apple ProRes 422 HQ/422/422 LT

5.1K: 5120×2700@24/25/30/48/50fps

DCI 4K: 4096×2160@24/25/30/48/50/60/120*fps

4K: 3840×2160@24/25/30/48/50/60/120*fps

H.264/H.265

5.1K: 5120×2700@24/25/30/48/50fps

DCI 4K: 4096×2160@24/25/30/48/50/60/120*fps

4K: 3840×2160@24/25/30/48/50/60/120*fps

FHD: 1920×1080@24/25/30/48/50/60/120*/200*fps

* Recording frame rates. The corresponding video plays as slow-motion video.

Medium Tele Camera

Apple ProRes 422 HQ/422/422 LT

4K: 3840×2160@24/25/30/48/50/60fps

H.264/H.265

4K: 3840×2160@24/25/30/48/50/60fps

FHD: 1920×1080@24/25/30/48/50/60fps

Tele Camera

Apple ProRes 422 HQ/422/422 LT

4K: 3840×2160@24/25/30/48/50/60fps

H.264/H.265

4K: 3840×2160@24/25/30/50/60fps

FHD: 1920×1080@24/25/30/50/60fps

Only the Cine version supports ProRes recording.

- **Video Format**

- MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)
MOV (Apple ProRes 422 HQ/422/422 LT)

Only the Cine version supports ProRes recording.

- **Max Video Bitrate**

- Hasselblad Camera:
H.264/H.265: 200 Mbps
ProRes 422 HQ: 3772 Mbps
ProRes 422: 2514 Mbps
ProRes 422 LT: 1750 Mbps

Medium Tele Camera:
H.264/H.265: 160 Mbps
ProRes 422 HQ: 1768 Mbps
ProRes 422: 1178 Mbps
ProRes 422 LT: 821 Mbps

Tele Camera:
H.264/H.265: 160 Mbps
ProRes 422 HQ: 1768 Mbps
ProRes 422: 1178 Mbps
ProRes 422 LT: 821 Mbps

Only the Cine version supports ProRes recording.

- **Supported File System**

- exFAT

- **Color Mode and Sampling Method**

- Hasselblad Camera
Normal:
10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)
8-bit 4:2:0 (H.264/H.265)
D-Log:
10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)
10-bit 4:2:0 (H.264/H.265)
HLG/D-Log M:
10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)
10-bit 4:2:0 (H.265)

Medium Tele Camera

Normal:

10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)

8-bit 4:2:0 (H.264/H.265)

HLG/D-Log M:

10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)

10-bit 4:2:0 (H.265)

Tele Camera

Normal:

10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)

8-bit 4:2:0 (H.264/H.265)

HLG/D-Log M:

10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)

10-bit 4:2:0 (H.265)

Only the Cine version supports ProRes recording.

- **Digital Zoom (only in Normal Video Mode and Explore Mode)**

- Hasselblad Camera: 1-3x
Medium Tele Camera: 3-7x
Tele Camera: 7-28x

Gimbal

- **Stabilization**

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

- **Mechanical Range**

- Tilt: -140° to 50°
Roll: -50° to 50°
Pan: -23° to 23°

- **Controllable Range**

- Tilt: -90° to 35°
Pan: -5° to 5°

- **Max Control Speed (tilt)**

- 100°/s

- **Angular Vibration Range**

- Hovering Without Wind: $\pm 0.001^\circ$
Normal Mode: $\pm 0.003^\circ$
Sport Mode: $\pm 0.005^\circ$

Sensing

- **Sensing Type**

- Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft

- **Forward**

- Measurement Range:
0.5-20 m
Detection Range:
0.5-200 m
Effective Sensing Speed:
Flight Speed ≤ 15 m/s
FOV:
Horizontal 90° , Vertical 103°

- **Backward**

- Measurement Range:
0.5-16 m
Effective Sensing Speed:
Flight Speed ≤ 12 m/s
FOV:
Horizontal 90° , Vertical 103°

- **Lateral**

- Measurement Range:
0.5-25 m
Effective Sensing Speed:
Flight Speed ≤ 15 m/s
FOV:
Horizontal 90° , Vertical 85°

- **Upward**

- Measurement Range:
0.2-10 m
Effective Sensing Speed:
Flight Speed ≤ 6 m/s

FOV:

Front and Back 100°, Left and Right 90°

- **Downward**

- Measurement Range:

0.3-18 m

Effective Sensing Speed:

Flight Speed ≤ 6 m/s

FOV:

Front and Back 130°, Left and Right 160°

- **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)

Video Transmission

- **Video Transmission System**

- 03+

- **Live View Quality**

- Remote Controller:

1080p/30fps, 1080p/60fps

- **Operating Frequency**

- 2.400-2.4835 GHz

5.725-5.850 GHz

- **Transmitter Power (EIRP)**

- 2.4 GHz:

< 33 dBm (FCC)

< 20 dBm (CE/SRRC/MIC)

5.8 GHz:

< 33 dBm (FCC)

< 30 dBm (SRRC)

< 14 dBm (CE)

- **Max Transmission Distance (unobstructed, free of interference)**

- FCC: 15 km

CE: 8 km

SRRC: 8 km

MIC: 8 km

Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for one-way, non-return flights under each standard. During your flight, please pay attention to RTH reminders in the DJI Fly app.

- **Max Transmission Distance (unobstructed, with interference)**

- Strong Interference: Urban landscape, approx. 1.5-3 km
Medium Interference: Suburban landscape, approx. 3-9 km
Low Interference: Suburb/seaside, approx. 9-15 km
Data tested under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual transmission distance.

- **Max Transmission Distance (obstructed, with interference)**

- 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 environments with typical low interference. Used for reference purposes only and provides no guarantee for actual transmission distance.

- **Max Download Speed**

- O3+:
5.5 MB/s (with DJI RC-N1 Remote Controller)
15 MB/s (with DJI RC Pro)
5.5 MB/s (with DJI RC)

Wi-Fi 6: 80 MB/s*

* Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz, with footage saved to the internal storage. Download speeds may vary depending on the actual conditions

- **Lowest Latency**

- 130 ms (with DJI RC-N1 Remote Controller)
120 ms (with DJI RC Pro)
130 ms (with DJI RC)
Depending on the actual environment and mobile device.

- **Antenna**

- 4 antennas, 2T4R

Battery

• Capacity
• 5000 mAh
• Weight
• 335.5 g
• Nominal Voltage
• 15.4 V
• Max Charging Voltage
• 17.6 V
• Type
• Li-ion 4S
• Energy
• 77 Wh
• Charging Temperature
• 5° to 40° C (41° to 104° F)
• Charging Time
• Approx. 96 minutes
Use the included data cable of the DJI 65W Portable Charger.
Approx. 70 minutes
Use the DJI 100W USB-C Power Adapter and DJI Mavic 3 Series 100W Battery Charging Hub.