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DJI Mavic 3 Pro

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## Specs

### Aircraft

<b>Takeoff Weight</b>	Mavic 3 Pro: 958 g Mavic 3 Pro Cine: 963 g
<b>Dimensions</b>	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)
<b>Max Ascent Speed</b>	8 m/s
<b>Max Descent Speed</b>	6 m/s
<b>Max Horizontal Speed (at sea level, no wind)</b>	21 m/s
<b>Max Takeoff Altitude</b>	6000 m
<b>Max Flight Time</b>	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 with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary depend environment, actual use, and firmware version.
<b>Max Hovering Time</b>	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, Ai camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, act firmware version.
<b>Max Flight Distance</b>	28 km
<b>Max Wind Speed Resistance</b>	12 m/s
<b>Max Tilt Angle</b>	35°
<b>Operating Temperature</b>	-10° to 40° C (14° to 104° F)
<b>Global Navigation Satellite System</b>	GPS + Galileo + BeiDou
<b>Hovering Accuracy Range</b>	Vertical: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning)  Horizontal: ±0.3 m (with vision positioning) ±0.5 m (with high-precision positioning system)

**Internal Storage**

Mavic 3 Pro: 8 GB (approx. 7.9GB available space)  
 Mavic 3 Pro Cine: 1 TB (approx. 934.8GB available space)

**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

Apple ProRes 422

Apple ProRes 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

Apple ProRes 422

Apple ProRes 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

Apple ProRes 422

Apple ProRes 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

Apple ProRes 422 HQ: 3772 Mbps

Apple ProRes 422: 2514 Mbps

Apple ProRes 422 LT: 1750 Mbps

## Medium Tele Camera:

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

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

**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)

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: $\pm 0.005^\circ$
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## 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 $\leq 15$ m/s FOV: Horizontal $90^\circ$ , Vertical $103^\circ$
Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed $\leq 12$ m/s FOV: Horizontal $90^\circ$ , Vertical $103^\circ$
Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed $\leq 15$ m/s FOV: Horizontal $90^\circ$ , Vertical $85^\circ$
Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed $\leq 6$ m/s FOV: Front and Back $100^\circ$ , Left and Right $90^\circ$
Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed $\leq 6$ m/s FOV: Front and Back $130^\circ$ , Left and Right $160^\circ$
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 (l

## Video Transmission

Video Transmission System	O3+
Live View Quality	Remote Controller: 1080p/30fps, 1080p/60fps

<b>Operating Frequency</b>	2.400-2.4835 GHz 5.725-5.850 GHz
<b>Transmitter Power (EIRP)</b>	2.4 GHz: < 33 dBm (FCC) < 20 dBm (CE/SRRC/MIC)  5.8 GHz: < 33 dBm (FCC) < 30 dBm (SRRC) < 14 dBm (CE)
<b>Max Transmission Distance (unobstructed, free of interference)</b>	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, no flights under each standard. During your flight, please pay attention to RTH reminders in the DJI Fly app.
<b>Max Transmission Distance (unobstructed, with interference)</b>	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 of actual transmission distance.
<b>Max Transmission Distance (obstructed, with interference)</b>	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.
<b>Max Download Speed</b>	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 storage. Download speeds may vary depending on the actual conditions.
<b>Lowest Latency</b>	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.
<b>Antenna</b>	4 antennas, 2T4R

## Battery

<b>Capacity</b>	5000 mAh
<b>Weight</b>	335.5 g
<b>Nominal Voltage</b>	15.4 V
<b>Max Charging Voltage</b>	17.6 V
<b>Type</b>	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.

## Charger

Input	DJI 65W Portable Charger: 100-240 V (AC), 50-60 Hz, 2 A
	DJI 100W USB-C Power Adapter: 100-240 V (AC), 50-60 Hz, 2.5 A
Output	DJI 65W Portable Charger: USB-C: 5 V, 5 A 9 V, 5 A 12 V, 5 A 15 V, 4.3 A 20 V, 3.25 A 5-20 V, 3.25 A
	USB-A: 5 V, 2 A
	DJI 100W USB-C Power Adapter: Max 100 W (total) When both ports are used, the max output power of one port is 82 W, and the charger will dynamically allocate output power of the two ports according to the power load.
Rated Power	DJI 65W Portable Charger: 65 W DJI 100W USB-C Power Adapter: 100 W

## Battery Charging Hub

Input	USB-C: 5-20 V, max 5 A
Output	Battery Port: 12-17.6 V, max 5 A
Rated Power	Battery Charging Hub: 65 W Battery Charging Hub (100W): 100 W
Charging Type	Three batteries charged in sequence.
Compatibility	DJI Mavic 3 Intelligent Flight Battery

## Car Charger

<b>Input</b>	Car Power Input: 12.7-16 V, 6.5 A, rated voltage 14 V (DC)
<b>Output</b>	USB-C: 5 V, 5 A 9 V, 5 A 12 V, 5 A 15 V, 4.3 A 20 V, 3.25 A 5-20 V, 3.25 A  USB-A: 5 V, 2 A
<b>Rated Power</b>	65 W
<b>Charging Temperature</b>	5° to 40° C (41° to 104° F)

## Storage

<b>Recommended microSD Cards</b>	Lexar 1066x 64GB V30 A2 microSDXC Lexar 1066x 128GB V30 A2 microSDXC Lexar 1066x 256GB V30 A2 microSDXC Lexar 1066x 512GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk High Endurance 128GB V30 microSDXC SanDisk High Endurance 256GB V30 microSDXC Kingston Canvas Go! Plus 64GB V30 A2 microSDXC Kingston Canvas Go! Plus 128GB V30 A2 microSDXC Kingston Canvas Go! Plus 256GB V30 A2 microSDXC Kingston Canvas Go! Plus 512GB V30 A2 microSDXC Samsung EVO Plus 512GB V30 A2 microSDXC Samsung PRO Plus 256GB V30 A2 microSDXC Samsung PRO Plus 512GB V30 A2 microSDXC
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