DJI 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 GNSS positioning) Horizontal: ±0.3 m (with vision positioning) ±0.5 m (with high-precision positioning system)

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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

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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:

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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: ±0.001° Normal Mode: ±0.003° Sport Mode: ±0.005°

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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 ≤ 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	O3+
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)

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< 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.

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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 the 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

Input	Car Power Input: 12.7-16 V, 6.5 A, rated voltage 14 V (DC)
Output	USB-C: 5 V, 5 A 9 V, 5 A 12 V, 5 A 15 V, 4.3 A

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	20 V, 3.25 A 5-20 V, 3.25 A
	USB-A: 5 V, 2 A
Rated Power	65 W
Charging Temperature	5° to 40° C (41° to 104° F)

Storage

Recommended microSD Cards	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

Footnotes

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