

Clifton Cameras Product Specification

DJI Mavic 3 Pro

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Aircraft	Takeoff Weight	Mavic 3 Pro: 958 g Mavic 3 Pro Cine: 963 g
Aircraft	Dimensions	Folded (without propellers): 231.1 × 98 × 95.4 mm (L × W × H) Unfolded (without propellers): 347.5 × 290.8 × 107.7 mm
Aircraft	Max Ascent Speed	8 m/s
Aircraft	Max Descent Speed	6 m/s
Aircraft	Max Horizontal Speed (at sea level, no wind)	21 m/s
Aircraft	Max Takeoff Altitude	6000 m
Aircraft	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.}
Aircraft	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.}
Aircraft	Max Flight Distance	28 km
Aircraft	Max Wind Speed Resistance	12 m/s
Aircraft	Max Tilt Angle	35°
Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)
Aircraft	Global Navigation Satellite System	GPS + Galileo + BeiDou
Aircraft	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)
Aircraft	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-inch CMOS, Effective Pixels: 48 MP Tele Camera: 1/2-inch CMOS, Effective Pixels: 12 MP
Camera	Lens	Hasselblad Camera FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11

		<p>Focus: 1 m to ∞

 Medium Tele Camera
 FOV: 35°
 Format Equivalent: 70 mm
 Aperture: f/2.8
 Focus: 3 m to ∞

 Tele Camera
 FOV: 15°
 Format Equivalent: 166 mm
 Aperture: f/3.4
 Focus: 3 m to ∞</p>
Camera	ISO Range	<p>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</p>
Camera	Shutter Speed	<p>Hasselblad Camera: 8-1/8000 s
 Medium Tele Camera: 2-1/8000 s
 Tele Camera: 2-1/8000 s</p>
Camera	Max Image Size	<p>Hasselblad Camera: 5280 × 3956
 Medium Tele Camera: 8064×6048
 Tele Camera: 4000×3000</p>
Camera	Still Photography Modes	<p>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</p>
Camera	Photo Format	JPEG/DNG (RAW)
Camera	Video Resolution	<p>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
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		<p>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</p>
Camera	Video Format	MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265) MOV (Apple ProRes 422 HQ/422/422 LT)
Camera	Max Video Bitrate	H.264/H.265: 200 Mbps Apple ProRes 422 HQ: 3772 Mbps Apple ProRes 422: 2514 Mbps Apple ProRes 422 LT: 1750 Mbps
Camera	Supported File System	exFAT
Camera	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)
Camera	Digital Zoom (only in Normal Video Mode and Explore Mode)	Hasselblad Camera: 1-3× Medium Tele Camera: 3-7× Tele Camera: 7-28×
Gimbal	Stabilization	3-axis mechanical gimbal (tilt, roll, pan)
Gimbal	Mechanical Range	Tilt: -140° to 50° Roll: -50° to 50° Pan: -23° to 23°
Gimbal	Controllable Range	Tilt: -90° to 35° Pan: -5° to 5°
Gimbal	Max Control Speed (tilt)	100° /s
Gimbal	Angular Vibration Range	Hovering Without Wind: ±0.001° Normal Mode: ±0.003° Sport Mode: ±0.005°
Sensing	Sensing Type	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft

Sensing	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°
Sensing	Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90° , Vertical 103°
Sensing	Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed ≤ 15 m/s FOV: Horizontal 90° , Vertical 85°
Sensing	Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed ≤ 6 m/s FOV: Front and Back 100° , Left and Right 90°
Sensing	Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed ≤ 6 m/s FOV: Front and Back 130° , Left and Right 160°
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)
Video Transmission	Video Transmission System	O3+
Video Transmission	Live View Quality	Remote Controller: 1080p/30fps, 1080p/60fps
Video Transmission	Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Video Transmission	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)
Video Transmission	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.}
Video Transmission	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.}
Video Transmission	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.}
Video Transmission	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.}

Video Transmission	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.}
Video Transmission	Antenna	4 antennas, 2T4R
Battery	Capacity	5000 mAh
Battery	Weight	335.5 g
Battery	Nominal Voltage	15.4 V
Battery	Max Charging Voltage	17.6 V
Battery	Type	Li-ion 4S
Battery	Energy	77 Wh
Battery	Charging Temperature	5° to 40° C (41° to 104° F)
Battery	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
Charger	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.
Charger	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
Battery Charging Hub	Output	Battery Port: 12-17.6 V, max 5 A
Battery Charging Hub	Rated Power	Battery Charging Hub: 65 W Battery Charging Hub (100W): 100 W
Battery Charging Hub	Charging Type	Three batteries charged in sequence.
Battery Charging Hub	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)
Car Charger	Output	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
Car Charger	Rated Power	65 W
Car Charger	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 Samsung EVO Plus 512GB V30 A2 microSDXC Samsung PRO Plus 256GB V30 A2 microSDXC Samsung PRO Plus 512GB V30 A2 microSDXC