

Clifton Cameras Product Specification

DJI Mavic 3 & Cine Drone Full Spec

group_title	item_title	spec_key	spec_value
DJI Mavic 3	Aircraft	Takeoff Weight	900 g
DJI Mavic 3	Aircraft	Dimensions (Folded/Unfolded)	Folded (without propellers) 221×96.3×90.3 mm (Length×Width×Height) Unfolded (without propellers) 347.5×283×107.7 mm (Length×Width×Height)
DJI Mavic 3	Aircraft	Wheelbase	Diagonal: 380.1 mm
DJI Mavic 3	Aircraft	Max Ascent Speed	1 m/s (C mode) 6 m/s (N mode) 8 m/s (S mode)
DJI Mavic 3	Aircraft	Max Descent Speed	1 m/s (C mode) 6 m/s (N mode) 6 m/s (S mode)
DJI Mavic 3	Aircraft	Max Flight Speed (at sea level, no wind)	5 m/s (C mode) 16 m/s (N mode) 21 m/s (S mode)
DJI Mavic 3	Aircraft	Max Service Ceiling Above Sea Level	6000 m
DJI Mavic 3	Aircraft	Max Flight Time (no wind)	46 minutes
DJI Mavic 3	Aircraft	Max Hovering Time (no wind)	40 minutes
DJI Mavic 3	Aircraft	Max Flight Distance	30 km
DJI Mavic 3	Aircraft	Max Wind Speed Resistance	12 m/s
DJI Mavic 3	Aircraft	Max Tilt Angle	25° (C mode) 30° (N mode) 35° (S mode)
DJI Mavic 3	Aircraft	Max Angular Velocity	200°/s
DJI Mavic 3	Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)
DJI Mavic 3	Aircraft	GNSS	GPS + Galileo + BeiDou
DJI Mavic 3	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)
DJI Mavic 3	Aircraft	Internal Storage	Mavic 3: 8 GB (available space is approx. 7.2 GB) Mavic 3 Cine: 1TB (available space is approx. 934.8 GB)
DJI Mavic 3	Hasselblad Camera	Sensor	4/3 CMOS, Effective pixels: 20 MP
DJI Mavic 3	Hasselblad Camera	Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 to f/11

			Focus: 1 m to ∞ (with Autofocus)
DJI Mavic 3	Hasselblad Camera	ISO Range	Video: 100-6400 Still Image: 100-6400
DJI Mavic 3	Hasselblad Camera	Shutter Speed	Electronic Shutter: 8-1/8000 s
DJI Mavic 3	Hasselblad Camera	Max Image Size	Main Unit: 5280×3956
DJI Mavic 3	Hasselblad Camera	Still Photography Modes	Single shot: 20MP Photos Automatic Exposure Bracketing (AEB): 20 MP, 3/5 bracketed frames at 0.7 EV Timed: 20 MP, 2/3/5/7/10/15/20/30/60s
DJI Mavic 3	Hasselblad Camera	Video Resolution	H.264/H.265 5K: 5120×700@24/25/30/48/50p DCI 4K: 4096×2160@24/25/30/48/50/60/120*fps 4K: 3840×2160@24/25/30/48/50/60/120*fps FHD: 1920×1080p@24/25/30/48/50/60/120*/200*fps * Frame rates above are recording frame rates. Videos will be played as slow-motion videos.
DJI Mavic 3 Cine	Hasselblad Camera	Video Resolution	Apple ProRes 422 HQ 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 5K: 5120×700@24/25/30/48/50p DCI 4K: 4096×2160@24/25/30/48/50/60/120*fps 4K: 3840×2160@24/25/30/48/50/60/120*fps FHD: 1920×1080p@24/25/30/48/50/60/120*/200*fps * Frame rates above are recording frame rates. Videos will be played as slow-motion videos.
DJI Mavic 3	Hasselblad Camera	Max Video Bitrate	H.264/H.265 Bitrate: H.264 Max 200Mbps, H.265 Max 140Mbps
DJI Mavic 3	Hasselblad Camera	Supported File Formats	exFAT
DJI Mavic 3	Hasselblad	Photo Format	JPEG/DNG (RAW)

	Camera		
DJI Mavic 3	Hasselblad Camera	Video Formats	Mavic 3: MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265) Mavic 3 Cine: MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265) MOV (Apple ProRes 422 HQ)
DJI Mavic 3	Tele Lens	Sensor	1/2" CMOS,
DJI Mavic 3	Tele Camera	Lens	FOV: 15° Format Equivalent: 162 mm Aperture: f/4.4 Focus: 3 meters to ∞
DJI Mavic 3	Tele Camera	ISO Range	Video: 100-6400 Still Image: 100-6400
DJI Mavic 3	Tele Lens	Shutter Speed	Electronic Shutter: 2-1/8000 s
DJI Mavic 3	Tele Camera	Max Image Size	4000x3000
DJI Mavic 3	Tele Camera	Photo Format	JPEG
DJI Mavic 3	Tele Camera	Video Formats	MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)
DJI Mavic 3	Tele Camera	Still Photography Modes	Single shot: 12MP Photos
DJI Mavic 3	Tele Camera	Video Resolution	H264/H.265 4K: 3840x2160@30 FHD: 1920x1080@30
DJI Mavic 3	Tele Camera	Digital Zoom	4 times
DJI Mavic 3	Gimbal	Stabilization	3-axis mechanical (tilt, roll, pan)
DJI Mavic 3	Gimbal	Mechanical Range	Tilt: -135° to 100° Roll: -45° to 45° Pan: -27° to 27°
DJI Mavic 3	Gimbal	Controllable Range	Tilt: -90° to 35° Pan: -5° to 5°
DJI Mavic 3	Gimbal	Max Control Speed (tilt)	100°/s
DJI Mavic 3	Gimbal	Angular Vibration Range	±0.007°
DJI Mavic 3	Sensing	Sensing System	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft
DJI Mavic 3	Sensing	Forward Vision System:	Measurement Range: 0.5-20 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed ≤ 16m/s FOV: Horizontal 90°, Vertical 103°
DJI Mavic 3	Sensing	Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤ 14m/s FOV: Horizontal 90°, Vertical 103°
DJI Mavic 3	Sensing	Lateral Sensing System	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed ≤ 16m/s FOV: Horizontal 90°, Vertical 85°
DJI Mavic 3	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°
DJI Mavic 3	Sensing	Downward Vision	Measurement Range: 0.3-18 m

		System:	Effective Sensing Speed: Flight Speed \leq 6 m/s FOV: Front and Back 130°, Left and Right 160°
DJI Mavic 3	Sensing	Operating Environment	Forward, Backward, Left, Right, and Upward: Surface with a clear pattern and adequate lighting (lux>15) Downward: Surface with a clear pattern and adequate lighting (lux >15). Diffuse reflective surface with diffuse reflectivity>20% (e.g. wall, tree, person)
DJI Mavic 3	Video Transmission	Video Transmission System	O3+
DJI Mavic 3	Video Transmission	Live View Quality	Remote Controller: 1080p@30fps/1080p@60fps
DJI Mavic 3	Video Transmission	Operation Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
DJI Mavic 3	Video Transmission	Max Transmission Distance (unobstructed, free of interference and aligned with controller)	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
DJI Mavic 3	Video Transmission	Max Download Bitrate	SDR: 5.5MB/s (with RC-N1 remote controller) 15MB/s (with DJI RC Pro remote controller) Wi-Fi 6: 80MB/s
DJI Mavic 3	Video Transmission	Latency (depending on environmental conditions and mobile device)	130 ms (with RC-N1 remote controller) 120 ms (with DJI RC Pro remote controller)
DJI Mavic 3	Video Transmission	Antennas	4 antennas, 2T4R
DJI Mavic 3	Video Transmission	Transmitter Power (EIRP)	2.4 GHz: \leq 33 dBm (FCC); \leq 20 dBm (CE/SRRC/MIC) 5.8 GHz: \leq 33 dBm (FCC), \leq 30 dBm(SRRC), \leq 14 dBm(CE)
DJI Mavic 3	Battery	Capacity	5000 mAh
DJI Mavic 3	Battery	Voltage	15.4 V
DJI Mavic 3	Battery	Charging Voltage Limit	17.6 V
DJI Mavic 3	Battery	Battery Type	LiPo 4S
DJI Mavic 3	Battery	Energy	77 Wh
DJI Mavic 3	Battery	Weight	335.5 g
DJI Mavic 3	Battery	Charging Temperature	5° to 40° C (41° to 104° F)
DJI Mavic 3	Battery Charger	Input	100-240 V AC, 47-63 Hz, 2.0 A
DJI Mavic 3	Battery Charger	USB-C Output	USB-C: 5.0 V=5.0 A/9.0=5.0 A/12.0 V=5.0 A/15.0 V=4.3 A/20.0 V=3.25 A/5.0~20.0 V=3.25 A
DJI Mavic 3	Battery Charger	USB-A output	USB-A: 5 V=2 A
DJI Mavic 3	Battery Charger	Rated Power	65 W
DJI Mavic 3	Charging Hub	Input	USB-C: 5-20 V=5.0 A max



DJI Mavic 3	Charging Hub	Output	Battery: 12-17.6 V~5.0 A max
DJI Mavic 3	Charging Hub	Rated Power	65 W
DJI Mavic 3	Charging Hub	Charging Type	Charges three batteries in sequence
DJI Mavic 3	Charging Hub	Charging Temperature Range	5° to 40° C (41° to 104° F)
DJI Mavic 3	Car Charger	Input	Car Power Input: 12.7-16 V~6.5 A, rated voltage 14 V DC
DJI Mavic 3	Car Charger	Output	USB-C: 5.0 V~5.0 A/9.0~5.0 A/12.0 V~5.0 A/15.0 V~4.3A/20.0 V~3.25 A/5.0~20.0 V~3.25 A USB-A: 5 V~2 A
DJI Mavic 3	Car Charger	Rated Power	65 W
DJI Mavic 3	Car Charger	Charging Time	Approx. 96 minutes
DJI Mavic 3	Car Charger	Charging Temperature Range	5° to 40° C (41° to 104° F)
DJI Mavic 3	Storage	Supported SD Cards	SDXC or UHS-I microSD card with a capacity of up to 2 TB (theoretically)
DJI Mavic 3	Storage	Recommended microSD Cards	SanDisk Extreme PRO 64GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk Extreme 128GB V30 A2 microSDXC SanDisk Extreme 256GB V30 A2 microSDXC SanDisk Extreme 512GB V30 A2 microSDXC Lexar 667x 64GB V30 A2 microSDXC Lexar High-Endurance 64GB V30 microSDXC Lexar High-Endurance 128GB V30 microSDXC Lexar 667x 256GB V30 A2 microSDXC Lexar 512GB V30 A2 microSDXC Samsung EVO 64GB V30 microSDXC Samsung EVO Plus 128GB V30 microSDXC Samsung EVO Plus 256GB V30 microSDXC Samsung EVO Plus 512GB V30 microSDXC Kingston 128GB V30 microSDXC
DJI Mavic 3	Storage	SSD Specs	Capacity: 1 TB Max Read Speed: 700MB/s* Max Write Speed: 471MB/s* * Data refers to the read and write speed inside the aircraft. Actual read and write speed of computer and other external devices may affect actual speed.
DJI Mavic 3	DJI RC-N1 Remote Controller	Remote Controller Transmission System	OcuSync 2.0



DJI Mavic 3	DJI RC-N1 Remote Controller	Battery Life	Without charging any mobile device: 6 hr; when charging mobile device: 4 hr
DJI Mavic 3	DJI RC-N1 Remote Controller	Supported USB Port Types	Lightning, Micro USB, USB-C
DJI Mavic 3	DJI RC-N1 Remote Controller	Max Supported Mobile Device Size	180x86x10 mm (LengthxWidthxHeight)
DJI Mavic 3	DJI RC-N1 Remote Controller	Operating Temperature	0° to 40° C (32° to 104° F)
DJI Mavic 3	DJI RC-N1 Remote Controller	Transmitter Power (EIRP)	2.4 GHz: ≤26 dBm (FCC), ≤20 dBm (CE/SRRC/MIC) 5.8 GHz: ≤26 dBm (FCC/SRRC), ≤14 dBm (CE)