



dji

**MAVIC 3
M**



Aircraft

Takeoff weight	1,050 g
Dimensions	Folded (without propellers): 223×96.3×122.2 mm(L×W×H) Unfolded (without propellers): 347.5×283×139.6 mm (L×W×H)
Max Ascent Speed	6 m/s (Normal Mode), 8 m/s (Sport Mode)
Max Descent Speed	6 m/s (Normal Mode), 6 m/s (Sport Mode)
Max Horizontal Speed (at sea level, no wind)	15 m/s (Normal Mode) Flying forward: 21 m/s, flying sideways: 20 m/s, flying backwards: 19 m/s (Sport mode)
Max Service Ceiling Above Sea Level	6000 m (without a payload)
Max Flight Time	43 minutes
Max Hovering Time	37 minutes
Max flight distance	32 km
Max Wind Speed Resistance	12 m/s
Operating temperature	-10° to 40° C (14° to 104° F)
Max Pitch Angle	30° (Normal Mode) 35° (Sport Mode)
Global Navigation Satellite System	GPS + Galileo + BeiDou + GLONASS (GLONASS is supported only when RTK module is enabled)
Hovering accuracy	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)
Motor Model Number	2008
Propeller Model Number	9453F Enterprise Edition
Light Sensor	Built-in module



Aircraft

Net Weight (with propellers and RTK module) [1]	951 g
Diagonal Length	Diagonal: 380.1 mm
Max Wind Speed Resistance	12 m/s

Sensing system

Sensing system type	Omnidirectional binocular vision system, with an infrared sensor at the bottom of the aircraft
Forward	Distance Measuring Range: 0.5 m to 20 m Detection Range: 0.5 m to 200 m Effective Obstacle Avoidance Speed: Flight Speed \leq15 m/s FOV: Horizontal 90°, vertical 103°
Backward	Distance Measuring Range: 0.5 m to 16 m Effective Obstacle Avoidance Speed: Flight speed \leq12 m/s FOV: Horizontal 90°, vertical 103°
Lateral	Distance Measuring Range: 0.5 m to 25 m Effective Obstacle Avoidance Speed: Flight speed \leq15 m/s FOV: Horizontal 90°, vertical 85°
Upward	Distance Measuring Range: 0.2 m to 10 m Effective Obstacle Avoidance Speed: Flight Speed \leq6 m/s FOV: Front and rear 100°, left and right 90°
Downward	Distance Measuring Range: 0.3 m to 18 m Effective Obstacle Avoidance Speed: Flight speed \leq6 m/s FOV: Front and rear 130°, left and right 160°
Operating Environment	Front, Rear, Left, Right, Above: Surfaces with clear patterns and adequate lighting ($>$ 15 lux, environments with normal indoor fluorescent light exposure) Below: Surfaces with diffuse reflection material and a reflectivity of $>$20% (such as walls, trees, people, etc.); Adequate lighting ($>$15 lux, environments with normal indoor fluorescent light exposure)



RGB Camera

Image Sensor	4/3 CMOS, Effective pixels: 20 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 to f/11 Focus: 1 m to ∞ (with autofocus)
ISO range	100-6400
Shutter Speed	Electronic shutter: 8-1/8000 s Mechanical shutter: 8-1/2000 s
Still Photography Modes	Single shot: 20 MP Timelapse: 20 MP JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG + RAW: 3/5/7/10/15/20/30/60 s Panorama: 20 MP (original material)
Max Image Size	5280×3956
Photo format	JPEG/DNG (RAW)
Video Resolution	H.264: 4K: 3840×2160@30fps FHD: 1920×1080@30fps
Supported File System	exFAT
Video Formats	MP4 (MPEG-4 AVC/H.264)
Max Video Bitrate	4K: 130Mbps FHD: 70Mbps



Multispectral Camera

Image Sensor	1/2.8-inch CMOS, effective pixels: 5 MP
Lens	FOV: 73.91° (61.2° x 48.10°) Equivalent focal length: 25 mm Aperture: f/2.0 Focus: Fixed Focus
Shutter Speed	Electronic Shutter: 1/30~1/12800 s
Multispectral Camera Band	Green (G): 560 ± 16 nm; Red (R): 650 ± 16 nm; Red Edge (RE): 730 ± 16 nm; Near infrared (NIR): 860 ± 26 nm;
Gain Range	1x-32x
Max Image Size	2592×1944
Image Format	TIFF
Video Format	MP4 (MPEG-4 AVC/H.264)
Photo Shooting Mode	Single shot: 5 MP Timelapse: 5 MP TIFF: 2/3/5/7/10/15/20/30/60 s
Video Resolution	H.264 FHD: 1920 x 1080@30fps Video content: NDVI/GNDVI/NDRE
Max Video Bitrate	Stream: 60 Mbps

Gimbal

Mechanical Range	Tilt: -135° to 45° Roll: -45° to 45° Pan: -27° to 27°
Controllable Range	Tilt: -90° to 35° Pan: Uncontrollable
Stabilization System	3-axis mechanical gimbal (tilt, roll, pan)
Max Control Speed (Tilt)	100°/s
Angular Vibration Range	±0.007°



Video Transmission

Video Transmission System	DJI O3 Image Transmission Industry Edition
Live View Quality	Remote Controller: 1080p/30fps
Operating Frequency	2.400-2.4835 GHz 5.725-5.850 Ghz
Max Effective Signal Distance (Unobstructed, No interference)	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
Max Transmission Distance (Obstructed)	Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC) Weak Interference (remote fields, open farmland, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)
Max Download Speed	15 MB/s (with DJI RC Pro Industry Edition)
Latency (depending on environment and mobile device)	Approximately 200 milliseconds
Antennas	4 antennas, 2 transmitting and 4 receiving
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)
Other	Supports the DJI Cellular module

Charger

Input	100V to 240V (AC), 50Hz to 60Hz, 2.5A
Output	Maximum output power of 100 Watts (total) When both the ports are used, the maximum output power of one interface is 82 W, and the charger will dynamically allocate the output power of the two interfaces according to load power.
Rated Power	100 Watts

DJI RC Pro Enterprise Edition

Image Transmission System	DJI O3 Image Transmission Industry Edition
Max Effective Signal Distance (Unobstructed, No interference)	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
Operating Band of Image Transmission	2.400-2.4835 GHz 5.725-5.850 Ghz
Antennas	4 antennas, 2 transmitting and 4 receiving
Operating Band of Image Transmission and Transmitter Power (EIRP)	2.4 GHz: <33 dBm (FCC); <20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC); <14 dBm (CE); <23 dBm (SRRC)
Wi-Fi Protocol	802.11 a/b/g/n/ac/ax Support 2×2 MIMO Wi-Fi
Wi-Fi Operating Band	2.400-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 Ghz
Wi-Fi Operating Band and Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC); <20 dBm (CE/SRRC/MIC) 5.1 GHz: <26 dBm (FCC); <23 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC); <14 dBm (CE)
Bluetooth Protocol	Bluetooth 5.1
Bluetooth Operating Band	2.400-2.4835 Ghz
Bluetooth Transmitter Power (EIRP)	<10 dBm
Screen Resolution	1920×1080
Screen Size	5.5 inches
Screen Frame Rate	60 fps
Screen Brightness	1,000 nits
Touch-Screen	10-point multi-touch
Battery	Lithium-ion battery (5000 mAh, 7.2 V)
Charging Type	100W Battery Charging Hub or USB charger with 12V or 15V specifications is recommended
Rated Power	12 Watts
Storage Capacity	Internal Memory (ROM): 64 GB Supports microSD card usage to increase storage capacity

DJI RC Pro Enterprise Edition

Charging Time	<p>Approx. 1.5 hours (measured when only using the 100W Battery Charging Hub to charge the remote control, or when using a 15V USB charger)</p> <p>Approximately 2 hours (measured using a 12V USB charger)</p> <p>Approximately 2 hours and 50 minutes (measured using the 100W Battery Charging Hub to charge the aircraft and remote control at the same time)</p>
Operating Time	Approx. 3 hours
Video Output Port	Mini-HDMI Port
Operating Temperature	-10° to 40° C (14° to 104°F)
Storage Temperature Range	<p><1 month: -30° to 60° C (-22° to 140° F)</p> <p>One to three months: -30° to 45° C (-22° to 113° F)</p> <p>Three to six months: -30° to 35° C (-22° to 95° F)</p> <p>More than six months: -30° to 25° C (-22° to 77° F)</p>
Charging Temperature	5° to 40° C (41° to 104° F)
Supported DJI Aircraft	<p>DJI Mavic 3E</p> <p>DJI Mavic 3T</p> <p>DJI Mavic 3M</p>
GNSS	GPS + Galileo + GLONASS
Dimensions	<p>Antenna is folded and no control sticks are installed: 183.27×137.41×47.6 mm (Length×Width×Height)</p> <p>Antenna unfolded and control sticks are installed: 183.27×203.35×59.84 mm (Length×Width×Height)</p>
Weight	Approx. 680 g
Model Number	RM510B

RTK Module

Dimensions	50.2×40.2×66.2 mm (Length×Width×Height)
Weight	24±2 g
Interface	USB-C
Power	Approximately 1.2 watts
RTK Position Accuracy	Fixed RTK: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

Storage

SD storage	<p>Remote Controller: 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 Plus 64GB V30 microSDXC Samsung EVO Plus 128GB V30 microSDXC Samsung EVO Plus 256GB V30 microSDXC Samsung EVO Plus 512GB V30 microSDXC Kingston Canvas Go! Plus 128GB V30 A2 microSDXC Kingston Canvas React Plus 128GB V90 A1 microSDXC</p> <p>Aircraft: SanDisk Extreme 32GB V30 A1 microSDHC SanDisk Extreme PRO 32GB V30 A1 microSDHC SanDisk Extreme 512GB V30 A2 microSDXC Lexar 1066x 64GB V30 A2 microSDXC Kingston Canvas Go! Plus 64GB V30 A2 microSDXC Kingston Canvas React Plus 64GB V90 A1 microSDXC Kingston Canvas Go! Plus 128GB V30 A2 microSDXC Kingston Canvas React Plus 128GB V90 A1 microSDXC Kingston Canvas React Plus 256GB V90 A2 microSDXC Samsung PRO Plus 256GB V30 A2 microSDXC</p>
Internal Storage	<p>Aircraft: Please use a memory card with a speed rating of V30 or higher, or use a memory card from the recommended list</p>



Battery

Capacity	5000 mAh
Nominal Voltage	15.4 V
Charging Voltage Limit	17.6 V
Battery type	Li-ion 4S
Weight	335.5 g
Energy	77 Wh
Chemical System	Lithium Cobalt
Charging temperature range	5° to 40° C (41° to 104° F)
Weight	335.5 g

Battery Charging Hub

Input	USB-C: 5V to 20V, 5.0A
Output	Battery Port: 12V to 17.6V, 8.0A
Rated Power	100 Watts
Charging Type	Three batteries charged in sequence
Charging Temperature	5° to 40° C (41° to 104° F)

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