

# Specs

## Aircraft

Net Weight (with propellers and RTK module) <sup>[1]</sup>	951 g
Max Takeoff Weight	1,050 g
Dimensions (Folded/Unfolded)	Folded (without propellers): 223×96.3×122.2 mm (Length×Width×Height) Unfolded (without propellers): 347.5×283×139.6 mm (Length×Width×Height)
Diagonal Length	Diagonal: 380.1 mm
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 Flight 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) <sup>[2]</sup>
Max Wind Speed Resistance	12 m/s <sup>[3]</sup>
Max Take-off Altitude Above Sea Level	6000 m (without a payload)
Max Flight Time (without wind)	43 minutes <sup>[4]</sup>
Max Hover Time (without wind)	37 minutes <sup>[4]</sup>
Max Flight Distance	32 km <sup>[6]</sup>
Max Pitch Angle	30° (Normal Mode) 35° (Sport Mode)
Max Angular Velocity	200°/s
GNSS	GPS + Galileo + BeiDou + GLONASS (GLONASS is supported only when RTK module is enabled)
Hovering Accuracy Range	Vertical: ±0.1 m (Vision Positioning enabled); ±0.5 m (GNSS Positioning enabled); ±0.1 m (D-RTK enabled) Horizontal: ±0.3 m (Vision Positioning enabled); ±0.5 m (HD Positioning enabled); ±0.1 m (RTK enabled)
Operating Temperature	-10° to 40° C (14° to 104° F)
Internal Storage	N/A
Motor Model Number	2008

Propeller Model Number 9453F Enterprise Edition

Light Sensor Built-in module

## RGB Camera

Image Sensor 4/3 CMOS  
Effective Pixels: 20 MP

Lens FOV: 84°  
Equivalent focal length: 24 mm  
Aperture: f/2.8 to f/11  
Focus: 1 m to ∞

ISO Range 100-6400

Shutter speed Electronic shutter: 8-1/8000 s  
Mechanical shutter: 8-1/2000 s

Max Image Size 5280×3956

Photo Shooting Mode Single shot: 20 MP  
Timed: 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)

Video Resolution H.264:  
4K: 3840×2160@30fps  
FHD: 1920×1080@30fps

Max Video Bitrate 4K: 130Mbps  
FHD: 70Mbps

Supported File System exFAT

Image Format JPEG/DNG (RAW)

Video Format MP4 (MPEG-4 AVC/H.264)

## 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

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

Shutter Speed	Electronic Shutter: 1/30~1/12800 s
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

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

## 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 ≤15 m/s FOV: Horizontal 90°, vertical 103°
Backward	Distance Measuring Range: 0.5 m to 16 m Effective Obstacle Avoidance Speed: Flight speed ≤12 m/s FOV: Horizontal 90°, vertical 103°
Lateral	Distance Measuring Range: 0.5 m to 25 m Effective Obstacle Avoidance Speed: Flight speed ≤15 m/s FOV: Horizontal 90°, vertical 85°
Upward	Distance Measuring Range: 0.2 m to 10 m Effective Obstacle Avoidance Speed: Flight Speed ≤6 m/s FOV: Front and rear 100°, left and right 90°

<b>Downward</b>	Distance Measuring Range: 0.3 m to 18 m Effective Obstacle Avoidance Speed: Flight speed $\leq$ 6 m/s FOV: Front and rear 130°, left and right 160°
<b>Operating Environment</b>	Front, Rear, Left, Right, Above: Surfaces with clear patterns and adequate lighting (> 15 lux, environments w 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)

## Video Transmission

<b>Video Transmission System</b>	DJI O3 Image Transmission Industry Edition
<b>Live View Quality</b>	Remote Controller: 1080p/30fps
<b>Operating Band</b> <sup>[7]</sup>	2.400-2.4835 GHz 5.725-5.850 GHz
<b>Max Effective Signal Distance (Unobstructed, No interference)</b> <sup>[8]</sup>	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
<b>Max Transmission Distance (Obstructed)</b> <sup>[9]</sup>	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)
<b>Max Download Speed</b>	15 MB/s (with DJI RC Pro Industry Edition)
<b>Latency (depending on environment and mobile device)</b>	Approximately 200 milliseconds
<b>Antennas</b>	4 antennas, 2 transmitting and 4 receiving
<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>Other</b>	Supports the DJI Cellular module

## DJI RC Pro Enterprise Edition

<b>Image Transmission System</b>	DJI O3 Image Transmission Industry Edition
<b>Max Effective Signal Distance (Unobstructed, No interference)</b> <sup>[8]</sup>	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
<b>Operating Band of Image Transmission</b> <sup>[7]</sup>	2.400-2.4835 GHz 5.725-5.850 GHz
<b>Antennas</b>	4 antennas, 2 transmitting and 4 receiving
<b>Operating Band of Image Transmission and Transmitter Power (EIRP)</b>	2.4 GHz: <33 dBm (FCC); <20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC); <14 dBm (CE); <23 dBm (SRRC)

<b>Wi-Fi Protocol</b>	802.11 a/b/g/n/ac/ax Support 2×2 MIMO Wi-Fi
<b>Wi-Fi Operating Band</b> <sup>[7]</sup>	2.400-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz
<b>Wi-Fi Operating Band and Transmitter Power (EIRP)</b>	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)
<b>Bluetooth Protocol</b>	Bluetooth 5.1
<b>Bluetooth Operating Band</b>	2.400-2.4835 GHz
<b>Bluetooth Transmitter Power (EIRP)</b>	<10 dBm
<b>Screen Resolution</b>	1920×1080
<b>Screen Size</b>	5.5 inches
<b>Screen Frame Rate</b>	60 fps
<b>Screen Brightness</b>	1,000 nits
<b>Touch-Screen</b>	10-point multi-touch
<b>Battery</b>	Lithium-ion battery (5000 mAh, 7.2 V)
<b>Charging Type</b>	100W Battery Charging Hub or USB charger with 12V or 15V specifications is recommended
<b>Rated Power</b>	12 Watts
<b>Storage Capacity</b>	Internal Memory (ROM): 64 GB Supports microSD card usage to increase storage capacity
<b>Charging Time</b>	Approx. 1.5 hours (measured when only using the 100W Battery Charging Hub to charge the remote control when using a 15V USB charger) Approximately 2 hours (measured using a 12V USB charger) Approximately 2 hours and 50 minutes (measured using the 100W Battery Charging Hub to charge the aircraft remote control at the same time)
<b>Operating Time</b>	Approx. 3 hours
<b>Video Output Port</b>	Mini-HDMI Port
<b>Operating Temperature</b>	-10° to 40° C (14° to 104°F)
<b>Storage Temperature Range</b>	<1 month: -30° to 60° C (-22° to 140° F) One to three months: -30° to 45° C (-22° to 113° F) Three to six months: -30° to 35° C (-22° to 95° F) More than six months: -30° to 25° C (-22° to 77° F)
<b>Charging Temperature</b>	5° to 40° C (41° to 104° F)
<b>Supported DJI Aircraft</b> <sup>[10]</sup>	DJI Mavic 3E DJI Mavic 3T DJI Mavic 3M

<b>GNSS</b>	GPS + Galileo + GLONASS
<b>Dimensions</b>	Antenna is folded and no control sticks are installed: 183.27×137.41×47.6 mm (Length×Width×Height) Antenna unfolded and control sticks are installed: 183.27×203.35×59.84 mm (Length×Width×Height)
<b>Weight</b>	Approx. 680 g
<b>Model Number</b>	RM510B

## Storage

<b>Supported microSD Cards</b>	Aircraft: Please use a memory card with a speed rating of V30 or higher, or use a memory card from the recommend
<b>Recommended microSD Cards</b>	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  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

## Battery

<b>Capacity</b>	5000 mAh
<b>Standard Voltage</b>	15.4 V
<b>Max Charging Voltage</b>	17.6 V
<b>Battery Type</b>	LiPo 4S

Chemical System	Lithium Cobalt
Energy	77 watt-hours
Weight	335.5 g
Charging Temperature	5° to 40° C (41° to 104° F)

## Battery Charger

Input	100V to 240V (AC), 50Hz to 60Hz, 2.5A
Output Power	100 Watts
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.

## 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	3 batteries on charging rotation
Charging Temperature	5° to 40° C (41° to 104° F)

## 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

## Notes

Footnotes	<ol style="list-style-type: none"><li>1. Standard weight of the aircraft (including battery, propellers, and microSD card). The actual product weight may vary due to differences in batch materials and external factors. Use for reference only.</li><li>2. The max speed in the EU cannot exceed 19 m/s.</li><li>3. Max wind resistance during takeoff and landing.</li><li>4. Data measured using the DJI Mavic 3M in a wind-free environment while flying at sea level at a constant speed of 36 kph until there was 0% power remaining. For reference only. Please pay attention to Return to Home procedure in the DJI Pilot 2 app when flying.</li><li>5. Data measured using the DJI Mavic 3M in a wind-free environment hovering over the sea level until there</li></ol>
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power remaining. For reference only. Please pay attention to Return to Home prompts in the DJI Pilot 2 app flying.

6. Data measured using the DJI Mavic 3M in a wind-free environment while flying at sea level at 57.6 kph until was 0% power remaining. For reference only. Please pay attention to Return to Home prompts in the DJI Pilot 2 app when flying.

7. In some countries, the 5.1/5.8GHz frequencies are prohibited, or the 5.1GHz frequency is only allowed for use. Please refer to local laws and regulations before use.

8. Data measured flying in an unobstructed outdoor environment free of interference. It shows the farthest communication range for one-way, non-Return to Home flights under each standard. Please pay attention to Return to Home prompts in the DJI Pilot 2 app when flying.

9. Data measured in an unobstructed environment with typical interference under various standards. The actual flight distance may vary and is for reference only.

10. The DJI RC Pro will support more DJI aircraft in the future.

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## Others

Guaranteed software updates until 2024/12/31

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