AIRCRAFT

Net Weight (with propellers and RTK module)

[1]

951 q

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) [2]

Max Wind Speed Resistance

12 m/s [3]

Max Take-off Altitude Above Sea Level

6000 m (without a payload)

Max Flight Time (without wind)

43 minutes [4]

Max Hover Time (without wind)

37 minutes [4]

Max Flight Distance

32 km [6]

Max Tilt 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

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)

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)



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): $650 \pm 16 \text{ nm}$;

Red Edge (RE): 730 ± 16 nm;

Near infrared (NIR): 860 \pm 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





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

Speed =12 11/13

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°

Downward

Distance Measuring Range: 0.3 m to 18 m Effective Obstacle Avoidance Speed: Flight speed ≤6 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)





Video Transmission System

DJI O3 Image Transmission Industry Edition

Live View Quality

Remote Controller: 1080p/30fps

Operating Band [7] 2.400-2.4835 GHz 5.725-5.850 GHz

Max Effective Signal Distance (Unobstructed, No interference) [8]

FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km

Max Transmission Distance (Obstructed) [9]

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



Image Transmission System

DJI O3 Image Transmission Industry Edition

Max Effective Signal Distance (Unobstructed,

No interference) [8] FCC: 15 km

CE: 8 km

SRRC: 8 km

MIC: 8 km

Operating Band of Image Transmission [7]

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

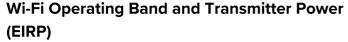
Wi-Fi Operating Band [7]

2.400-2.4835 GHz

5.150-5.250 GHz

5.725-5.850 GHz





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

Charging Time

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)

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 and remote control at the same time)

Operating Time

Approx. 3 hours

Video Output Port

Mini-HDMI Port

Operating Temperature

-10° to 40° C (14° to 104°F)

Storage Temperature Range

<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)

Charging Temperature

5° to 40° C (41° to 104° F)

Supported DJI Aircraft [10]

DJI Mavic 3E

DJI Mavic 3T

DJI Mavic 3M





GPS + Galileo + GLONASS

Dimensions

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)

Weight

Approx. 680 g

Model Number RM510B

STORAGE

Supported microSD Cards

Aircraft:

Please use a memory card with a speed rating of V30 or higher, or use a memory card from the recommended list

Recommended microSD Cards

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



Kingston Canvas React Plus 128GB V90 A1 microSDXC

Aircraft:

SanDisk Extreme 32GB V30 A1 microSDHC SanDisk Extreme PRO 32GB V30 A1 microSDHC

Lexar 1066x 64GB V30 A2 microSDXC Kingston Canvas Go! Plus 64GB V30 A2

SanDisk Extreme 512GB 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





Capacity 5000 mAh
Standard Voltage 15.4 V
Max Charging Voltage 17.6 V
Battery Type 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 q

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

- 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.
- 2. The max speed in the EU cannot exceed 19 m/s.
- 3. Max wind resistance during takeoff and landing.
- 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 prompts in the DJI Pilot 2 app when flying.
- 5. Data measured using the DJI Mavic 3M in a wind-free environment hovering over the sea level until there was 0% power remaining. For reference only. Please pay attention to Return to Home prompts in the DJI Pilot 2 app when flying.
- 6. Data measured using the DJI Mavic 3M in a wind-free environment while flying at sea level at 57.6 kph until there 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 indoor 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

interference under various standards. The actual flight distance may vary and is for reference only.

10. The DJI RC Plus will support more DJI air craff in the future.

metering and control