

MAVIC 3 ENTERPRISE

MAVIC 3 THERMAL



AIRCRAFT

Weight (with propellers, without accessories)

[1]

DJI Mavic 3E: 915 g

DJI Mavic 3T: 920 g

Max Takeoff Weight

DJI Mavic 3E: 1,050 g

DJI Mavic 3T: 1,050 g

Dimensions

Folded (without propellers): 221×96.3×90.3 mm
(L×W×H)

Unfolded (without propellers): 347.5×283×107.7
mm (L×W×H)

Diagonal Distance

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)

Forward: 21 m/s, Side: 20 m/s, Backward: 19
m/s (Sport Mode) [2]

Max Wind Speed Resistance

12 m/s [3]

Max Take-off Altitude Above Sea Level

6000 m (without payload)

Max Flight Time (no wind)

45 mins [4]

Max Hover Time (no wind)

38 mins

Max Flight Distance

32 km

Max Tilt Angle

30° (Normal Mode)

35° (Sport Mode)

Max Angular Velocity

200°/s

GNSS

GPS+Galileo+BeiDou+GLONASS (GLONASS is
supported only when the RTK module is
enabled)

Hovering Accuracy

Vertical: ±0.1 m (with Vision System); ±0.5 m
(with GNSS); ±0.1 m (with RTK)

Horizontal: ±0.3 m (with Vision System); ±0.5 m
(with High-Precision Positioning System); ±0.1 m
(with RTK)

Operating Temperature Range

-10° to 40° C (14° to 104° F)

Internal Storage

N/A

Motor Model

2008

Propeller Model

9453F Propellers for Enterprise

Beacon

Built into the aircraft

GRIDX
metering and control

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WIDE CAMERA

Sensor

DJI Mavic 3E: 4/3 CMOS, Effective pixels: 20 MP

DJI Mavic 3T: 1/2-inch CMOS, Effective pixels: 48 MP

Lens

DJI Mavic 3E:

FOV: 84°

Format Equivalent: 24 mm

Aperture: f/2.8-f/11

Focus: 1 m to ∞

DJI Mavic 3T:

FOV: 84°

Format Equivalent: 24 mm

Aperture: f/2.8

Focus: 1 m to ∞

ISO Range

DJI Mavic 3E: 100-6400

DJI Mavic 3T: 100-25600

Shutter Speed

DJI Mavic 3E:

Electronic Shutter: 8-1/8000 s

Mechanical Shutter: 8-1/2000 s

DJI Mavic 3T:

Electronic Shutter: 8-1/8000 s

Max Image Size

DJI Mavic 3E: 5280×3956

DJI Mavic 3T: 8000×6000

Still Photography Modes

DJI Mavic 3E:

Single: 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

Smart Low-light Shooting: 20 MP

Panorama: 20 MP (raw image)

DJI Mavic 3T:

Single: 12 MP/48 MP

Timed: 12 MP/48 MP

JPEG: 2/3/5/7/10/15/20/30/60 s*

Panorama: 12 MP (raw image); 100 MP (stitched image)

Smart Low-light Shooting: 12 MP

* Shooting 48MP photo does not support 2s interval

Video Resolution

H.264

4K: 3840×2160@30fps

FHD: 1920×1080@30fps

Bitrate

DJI Mavic 3E:

4K: 130 Mbps

FHD: 70 Mbps

DJI Mavic 3T:

4K: 85 Mbps

FHD: 30 Mbps

Supported File Formats

exFAT

Photo Format

DJI Mavic 3E: JPEG/DNG (RAW)

DJI Mavic 3T: JPEG

Video Format

MP4 (MPEG-4 AVC/H.264)

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TELE CAMERA

Sensor

1/2-inch CMOS, Effective pixels: 12 MP

Lens

FOV: 15°

Format Equivalent: 162 mm

Aperture: f/4.4

Focus: 3 m to ∞

ISO Range

DJI Mavic 3E: 100-6400

DJI Mavic 3T: 100-25600

Shutter Speed

Electronic Shutter: 8-1/8000 s

Max Image Size

4000×3000

Photo Format

JPEG

Video Format

MP4 (MPEG-4 AVC/H.264)

Still Photography Modes

DJI Mavic 3E:

Single: 12 MP

Timed: 12 MP

JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s

Smart Low-light Shooting: 12 MP

DJI Mavic 3T:

Single: 12 MP

Timed: 12 MP

JPEG: 2/3/5/7/10/15/20/30/60 s

Smart Low-light Shooting: 12 MP

Video Resolution

H.264

4K: 3840×2160@30fps

FHD: 1920×1080@30fps

Bitrate

DJI Mavic 3E:

4K: 130 Mbps

FHD: 70 Mbps

DJI Mavic 3T:

4K: 85 Mbps

FHD: 30 Mbps

Digital Zoom

8x (56x hybrid zoom)

TELE CAMERA

Thermal Imager

Uncooled VOx Microbolometer

Pixel Pitch

12 μm

Frame Rate

30 Hz

Lens

DFOV: 61°

Format Equivalent: 40 mm

Aperture: f/1.0

Focus: 5 m to ∞

Sensitivity

≤50 mk@F1.1

Temperature Measurement Method

Spot Meter, Area Measurement

Temperature Measurement Range

-20° to 150° C (-4° to 302° F, High Gain Mode)

0° to 500° C (32° to 932° F, Low Gain Mode)

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Palette

White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2

Photo Format

JPEG (8-bit)

R-JPEG (16-bit)

Video Resolution

640×512@30fps

Bitrate

6 Mbps

Video Format

MP4 (MPEG-4 AVC/H.264)

Still Photography Modes

DJI Mavic 3T:

Single: 640×512

Timed: 640×512

JPEG: 2/3/5/7/10/15/20/30/60 s

Digital Zoom

28x

Infrared Wavelength

8-14 μm

Infrared Temperature Measurement Accuracy

$\pm 2^\circ\text{C}$ or $\pm 2\%$ (using the larger value)

TELE CAMERA

Stabilization

3-axis (tilt, roll, pan)

Mechanical Range

DJI Mavic 3E:

Tilt: -135° to 100°

Roll: -45° to 45°

Pan: -27° to 27°

DJI Mavic 3T:

Tilt: -135° to 45°

Roll: -45° to 45°

Pan: -27° to 27°

Controllable Range

Tilt: -90° to 35°

Pan: Not controllable

Max Control Speed (tilt)

$100^\circ/\text{s}$

Angular Vibration Range

$\pm 0.007^\circ$

SENSING

Type

Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft.

Forward

Measurement Range: 0.5-20 m

Detection Range: 0.5-200 m

Effective Sensing Speed: Flight Speed $\leq 15\text{ m/s}$

FOV: Horizontal 90° , Vertical 103°

Backward

Measurement Range: 0.5-16 m

Effective Sensing Speed: Flight Speed $\leq 12\text{ m/s}$

FOV: Horizontal 90° , Vertical 103°

Lateral

Measurement Range: 0.5-25 m

Effective Sensing Speed: Flight Speed $\leq 15\text{ m/s}$

FOV: Horizontal 90° , Vertical 85°

Upward

Measurement Range: 0.2-10 m

Effective Sensing Speed: Flight Speed $\leq 6\text{ m/s}$

FOV: Front and Back 100° , Left and Right 90°

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Downward

Measurement Range: 0.3-18 m

Effective Sensing Speed: Flight Speed ≤ 6 m/s

FOV: Front and Back 130°, Left and Right 160°

Operating Environment

Forward, Backward, Lateral, and Upward:

Surface with a clear pattern and adequate lighting (lux >15)

Downward: Diffuse reflective surface with diffuse reflectivity $>20\%$ (e.g. walls, trees, people) and adequate lighting (lux >15)

VIDEO TRANSMISSION

Video Transmission System

DJI O3 Enterprise Transmission

Live View Quality

Remote Controller: 1080p/30fps

Operating Frequency [6]

2.400-2.4835 GHz

5.725-5.850 GHz

Max Transmission Distance (unobstructed, free of interference) [7]

DJI Mavic 3E:

FCC: 15 km

CE: 8 km

SRRC: 8 km

MIC: 8 km

DJI Mavic 3T:

FCC: 15 km

CE: 8 km

SRRC: 8 km

MIC: 8 km

Max Transmission Distance (Obstructed) [8]

Strong Interference (dense buildings, residential areas, etc.): 1.5-3 km
(FCC/CE/SRRC/MIC)

Medium Interference (suburban areas, city parks, etc.): 3-9 km (FCC), 3-6 km
(CE/SRRC/MIC)

Low Interference (open spaces, remote areas, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)

Max Download Speed[9]

15 MB/s (with DJI RC Pro Enterprise)

Latency (depending on environmental conditions and mobile device)

Approx. 200 ms

Antenna

4 Antennas, 2T4R

Transmission 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)

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DJI RC PRO ENTERPRISE

Video Transmission System

DJI O3 Enterprise Transmission

Max Transmission Distance (unobstructed, free of interference) [7]

FCC: 15 km

CE/SRRC/MIC: 8 km

Video Transmission Operating Frequency [6]

2.400-2.4835 GHz

5.725-5.850 GHz

Antenna

4 Antennas, 2T4R

Video Transmission 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 Frequency [6]

2.400-2.4835 GHz

5.150-5.250 GHz

5.725-5.850 GHz

Wi-Fi 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 Frequency

2.400-2.4835 GHz

Bluetooth Transmitter Power (EIRP)

< 10 dBm

Screen Resolution

1920×1080

Screen Size

5.5 inches

Screen

60 fps

Brightness

1,000 nits

Touchscreen Control

10-point multi-touch

Battery

Li-ion (5000 mAh @ 7.2 V)

Charging Type

Recommended to be charged with the included DJI USB-C Power Adapter (100W) or USB charger at 12 V or 15 V

Rated Power

12 W

Storage Capacity

Internal Storage (ROM): 64 GB

Supports a microSD card for expanded capacity.

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Rated Power

12 W

Storage Capacity

Internal Storage (ROM): 64 GB

Supports a microSD card for expanded capacity.

Charging Time

Approx. 1 hour 30 minutes (with the included DJI USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V)

Approx. 2 hours (with a USB charger at 12 V)

Approx. 2 hours 50 minutes (with the included DJI USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)

Operating Time

Approx. 3 hours

Video Output Port

Mini-HDMI port

Operating Temperature Range

-10° to 40° C (14° to 104° F)

Storage Temperature

-30° to 60° C (-22° to 140° F) (within one month)

-30° to 45° C (-22° to 113° F) (one to three months)

-30° to 35° C (-22° to 95° F) (three to six months)

-30° to 25° C (-22° to 77° F) (more than six months)

Charging Temperature

5° to 40° C (41° to 104° F)

Supported DJI Aircraft^[10]

DJI Mavic 3E

DJI Mavic 3T

GNSS

GPS+Galileo+GLONASS

Dimensions

Antennas folded and controller sticks unmounted:

183.27×137.41×47.6 mm (L×W×H)

Antennas unfolded and controller sticks mounted:

183.27×203.35×59.84 mm (L×W×H)

Weight

Approx. 680 g

Model

RM510B

STORAGE

Supported Memory Cards

Aircraft:

U3/Class10/V30 or above is required. A list of recommended microSD cards can be found below.

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

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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

Capacity

5000 mAh

Standard Voltage

15.4 V

Max Charging Voltage

17.6 V

Type

LiPo 4S

Chemical System

LiCoO₂

Energy

77 Wh

Weight

335.5 g

Charging Temperature

5° to 40° C (41° to 104° F)

CHARGER

Input

100-240 V (AC Power), 50-60 Hz, 2.5 A

Output Power

100 W

Output

Max. 100 W (total)

When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the output power of the two ports according to the load power.

CHARGER

Input

USB-C: 5-20 V, 5.0 A

Output

Battery Port: 12-17.6 V, 8.0 A

Rated Power

100 W

Charging Type

Three batteries charged in sequence

Charging Temperature Range

5° to 40° C (41° to 104° F)

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RTK MODULE

Dimensions

50.2×40.2×66.2 mm (L×W×H)

Weight

24±2 g

Interface

USB-C

Power

Approx. 1.2 W

RTK Positioning Accuracy

RTK Fix:

Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

SPEAKER

Dimensions

114.1×82.0×54.7 mm (L×W×H)

Weight

85±2 g

Interface

USB-C

Rated Power

3 W

Max Volume [11]

110 dB @ 1 m

Effective Broadcast Distance [11]

100 m @ 70 dB

Bit Rate

16 Kbps/32 Kbps

Operating Temperature Range

-10° to 40° C (14° to 104° F)

OTHER

Notes

- [1] The standard weight of the aircraft (including the battery, propellers, and a microSD card). The actual product weight may vary due to differences in batch materials and external factors.
- [2] Maximum speed in Sport mode is 19m/s when operating in EU regions.
- [3] Max wind speed resistance during takeoff and landing.
- [4] Measured with Mavic 3 Enterprise Series flying at a constant speed of 32.4 kph in a windless environment at sea level until the battery reached 0%. Data is for reference only. Please pay attention to RTH reminders in the DJI Pilot 2 app during flight.
- [5] DO NOT expose the infrared camera lenses to strong sources of energy such as the sun, lava, or laser beams. Otherwise, the camera sensor may be burned, leading to permanent damage.
- [6] In some countries and regions, the 5.8 and 5.1GHz frequencies are prohibited, or the 5.1GHz frequency is only allowed for indoor use. Check local laws and regulations for more information.
- [7] Measured in an unobstructed environment free of interference. The above data shows the farthest communication range for one-way, non-return flights (with no payload) under each standard. During your flight, please pay attention to RTH reminders in the DJI Pilot 2 app.
- [8] Data tested under different standards in unobstructed environments with typical interference. Uses for reference purposes only and provides no guarantee as to the actual flight distance.
- [9] Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz. With footage saved on the officially recommended microSD cards. Download speeds may vary depending on actual conditions.
- [10] Will support more DJI aircraft in the future. Visit the official website for the latest information.
- [11] Data was measured in a controlled environment and is for reference only. Actual use experience may vary depending on software version, sound source, specific environment, and other conditions.

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