

DJI Mavic 3T

Specs

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 Pitch 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

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)

* Shooting 48MP photo does not support 2s interval
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
- Supported File Formats
 - exFAT
- Photo Format
 - DJI Mavic 3E: JPEG/DNG (RAW)
DJI Mavic 3T: JPEG
- Video Format
 - MP4 (MPEG-4 AVC/H.264)
- **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)

Thermal Camera ^[5]

- 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 ∞
- Noise Equivalent Temperature Difference (NETD)
 - ≤ 50 mK@F1.0
- 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)
- 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
 - $640 \times 512 @ 30$ fps
- 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 μ m
- Infrared Temperature Measurement Accuracy
 - $\pm 2^{\circ}$ C or $\pm 2\%$ (using the larger value)

Gimbal

- 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°/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 ≤ 15 m/s
 - FOV: Horizontal 90°, Vertical 103°
- Backward
 - Measurement Range: 0.5-16 m
 - Effective Sensing Speed: Flight Speed ≤ 12 m/s
 - FOV: Horizontal 90°, Vertical 103°
- Lateral
 - Measurement Range: 0.5-25 m
 - Effective Sensing Speed: Flight Speed ≤ 15 m/s
 - FOV: Horizontal 90°, Vertical 85°
- Upward
 - Measurement Range: 0.2-10 m
 - Effective Sensing Speed: Flight Speed ≤ 6 m/s
 - FOV: Front and Back 100°, Left and Right 90°
- 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)

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.
- 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
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

- 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.

Charging Hub

- 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)

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)