

DJI MAVIC 3 ENTERPRISE SERIES



DJI Mavic 3 Enterprise with Thermal Camera (DJI Mavic 3T) SP 1Y

The Mavic 3 Enterprise Series redefines industry standards for small commercial drones.

With a mechanical shutter, a 56× zoom camera, and an RTK module for centimeter-level precision, the Mavic 3E brings mapping and mission efficiency to new heights.

A thermal version is available for firefighting, search and rescue, inspection, and night operations.

- Compact and Portable
- 4/3 CMOS Wide Camera
- 56× Hybrid Zoom
- 640 × 512 px Thermal Camera
- 45-min Max Flight Time
- DJI O3 Enterprise Transmission
- Centimeter-level Positioning with RTK
- High-Volume Loudspeaker

Compact and Portable

Streamlined and compact, Mavic 3 Enterprise Series can be carried in one hand and deployed at a moment's notice. Perfect for beginner and veteran pilots alike, it's built to perform on lengthy missions.

DJI Mavic 3T

Wide Equivalent Focal Length: 24mm, 48MP

Zoom Equivalent Focal Length: 162mm, 12MP, 56× Hybrid Zoom

Thermal DFOV: 61°, Equivalent Focal Length: 40mm, Resolution 640 × 512



Premium Camera Performance

Focus and Find: Both Mavic 3E and Mavic 3T are equipped with a 12MP Zoom Camera, supporting up to 56× Max Hybrid Zoom to see essential details from afar.

See the Unseen: Mavic 3T's thermal camera has 640 × 512 resolution and supports point and area temperature measurement, high temperature alerts, color palettes, and isotherms to help you find your targets and make quick decisions.

Simultaneous Split-Screen Zoom: Mavic 3T's thermal and zoom cameras support 28× continuous side-by-side zoom for easy comparisons.

Exceptional Operational Efficiency. Batteries Optimized For Endurance: 45-min flight durations let you cover more ground each mission, for surveying of up to 2 square kilometers in a single flight.

Max Flight Time 45 Minutes:

Surveying Area in a Single Flight 2 Square Kilometers

Fast charge batteries with 100W charging hub, or directly charge the drone with 88W fast charging.

Charging Hub 100W

Aircraft 88W

Next-Generation Image Transmission: Quad-antenna O3 Enterprise Transmission enables more stable connections in a wide variety of complex environments.

Omnidirectional Sensing for Safe Flying:

Equipped with wide-angle lenses on all sides for omnidirectional obstacle avoidance with zero blind spots. Adjust proximity alarms and braking distance depending on mission requirements.

Advanced RTH automatically plans the optimal route home, saving power, time, and hassle.

APAS 5.0 enables automatic rerouting around obstacles, so you can fly with peace of mind.



Abundant Accessories

DJI RC Pro Enterprise: A portable remote controller with a 1,000-nit high-brightness screen for clear visibility in direct sunlight, a built-in microphone for clear communication, and 1.5-hour 65W fast charging.

Loudspeaker: Broadcast your message from above, with support for text-to-speech, audio storage, and looping, to improve search and rescue efficiency.

RTK Module: Achieve centimeter-level accuracy with RTK and support for network RTK, custom network RTK services, and D-RTK 2 Mobile Station.

D-RTK 2 Mobile Station: D-RTK 2 Mobile Station is DJI's upgraded high-precision GNSS receiver that supports all major global satellite navigation systems, providing real-time differential corrections that generate centimeter-level positioning data for improved relative accuracy.

Full Software Suite

DJI Pilot 2: A revamped Enterprise flight interface designed to improve piloting efficiency and flight safety. Drone and payload controls can be easily accessed with one tap. Clear presentation of flight details and navigational information improves user experience together with support for various route types.

DJI FlightHub 2: All-in-one cloud drone operations management for your fleet with support for live annotations and cloud mapping for seamless ground-to-cloud synergy. Efficiently manage inspection operations with route planning and mission management.

DJI Terra: Full featured mapping software for all stages of work, from mission planning to processing of 2D and 3D models.

DJI Thermal Analysis Tool 3.0: Analyze, annotate, and process images captured by M3T using DTAT 3.0 to detect temperature abnormalities in your inspections.



User Data Security

Local Data Mode
One-Tap Clear All Device Data
AES-256 Video Transmission Encryption
Cloud API

Open Developer Ecosystem

PSDK: PSDK is a unified interface that enables expansion of Mavic 3 Enterprise Series capabilities through third-party hardware.

MSDK: Mobile SDK 5 simplifies the development of apps to control the Mavic 3 Enterprise Series. Mobile SDK 5 is fully open source and comes with production code samples of core DJI Pilot 2 modules.

Cloud API: With Pilot 2's built-in MQTT based protocols in DJI Cloud API, you can directly connect the Mavic 3 Enterprise Series to Third-Party cloud platforms without having to develop an App. Access the drone's hardware, video live-stream, and photo data.

Set Includes:

Mavic 3 Thermal Drone
DJI Care Enterprise Basic for 2 year
DJI Terra Electricity software for 3 months
1x Drone battery
DJI RC Pro Enterprise control unit
USB-C power charger
2x USB-C cable
Power cable
Camera cover
Pair of spare propellers
Allen wrench
64GB memory card
Carrying case

SPECIFICATIONS



Aircraft

Weight (with propellers, without accessories) DJI Mavic 3T: 920 g
Max Takeoff Weight 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
Max Take-off Altitude Above Sea Level 6000 m (without payload)
Max Flight Time (no wind) 45 mins
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

Wide Camera

Sensor DJI Mavic 3T: 1/2-inch CMOS, Effective pixels: 48 MP
Lens DJI Mavic 3T: FOV: 84°, Format Equivalent: 24 mm, Aperture: f/2.8, Focus: 1 m to ∞
ISO Range DJI Mavic 3T: 100-25600
Shutter Speed DJI Mavic 3T: Electronic Shutter: 8-1/8000 s
Max Image Size DJI Mavic 3T: 8000×6000
Still Photography Modes 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 3T: 4K: 85 Mbps, FHD: 30 Mbps
Supported File Formats exFAT
Photo Format 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 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 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 3T: 4K: 85 Mbps, FHD: 30 Mbps
Digital Zoom 8x (56x hybrid zoom)

Thermal 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 $\leq 50 \text{ mk@F1.1}$

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)

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)

Gimbal

Stabilization 3-axis (tilt, roll, pan)

Mechanical Range 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 $\leq 15 \text{ m/s}$, 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°

Downward Measurement Range: 0.3-18 m, Effective Sensing Speed: Flight Speed $\leq 6 \text{ m/s}$, FOV: Front and Back 130°, Left and Right 160°

Operating Environment Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting ($\text{lux} > 15$) ; Downward: Diffuse reflective surface with diffuse reflectivity $> 20\%$ (e.g. walls, trees, people) and adequate lighting ($\text{lux} > 15$)



Video Transmission

Video Transmission System DJI O3 Enterprise Transmission

Live View Quality Remote Controller: 1080p/30fps

Operating Frequency 2.400-2.4835 GHz, 5.725-5.850 GHz

Max Transmission Distance (unobstructed, free of interference) DJI Mavic 3T: FCC: 15 km, CE: 8 km, SRRC: 8 km, MIC: 8 km

Max Transmission Distance (Obstructed) 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 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) FCC: 15 km, CE/SRRC/MIC: 8 km

Video Transmission Operating Frequency 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 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 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 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)



