



Mavic 3 Thermal



FEATURES

AIRCRAFT :

Maximum Takeoff Weight	DJI Mavic 3T: 1,050 g
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)
Max Flight Time (no wind)	45 mins
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 Wind Speed Resistance	12 m/s
Max Take-off Alltude Above Sea Level	6000 m (without payload)
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
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 Positoning System); ± 0.1 m (with RTK)

FLIGHT CONTROL SYSTEM :

GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)
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WIDE CAMERA :

Sensor	1/2-inch CMOS, Effective pixels: 48 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 Focus: 1 m to ∞
ISO Range	100 - 25600
Shutter Speed	Electronic Shutter: 8 - 1/8000 s
Max Image Size	8000 x 6000
Still Photography Modes	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

4K: 85 Mbps

FHD: 30 Mbps

Supported File Formats

exFAT

Photo Format

JPEG

Video Format

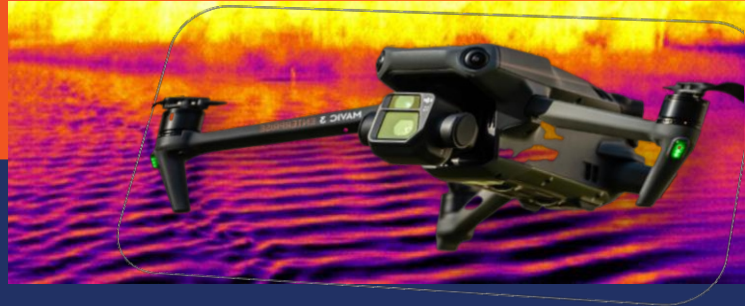
MP4 (MPEG-4 AVC/H.264)

TELE CAMERA :



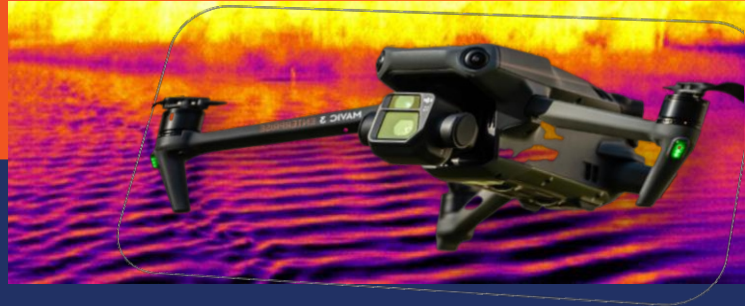
Sensor	1/2-inch CMOS, Effective pixels: 12 MP
Lens	FOV: 15° Format Equivalent: 162 mm Aperture: f/4.4 Focus: 3 m to ∞
ISO Range	100-25600
Shutter Speed	Electronic Shutter: 8 - 1/8000 s
Max Image Size	4000×3000
Photo Format	JPEG
Video Format	MP4 (MPEG-4 AVC/H.264)
Still Photography Modes	Single: 12 MP 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
Bitrate	4K : 85 Mbps FHD : 30Mbps
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/ Arcti /Medical/Fulgurite/Rainbow 1/Rainbow 2
Photo Format	JPEG (8-bit) R-JPEG (16-bit)
Video Resolution	640x512@30fps
Still Photography Modes	Single: 640x512 Timed: 640x512 JPEG: 2/3/5/7/10/15/20/30/60 s

THERMAL CAMERA :



Bitrate	6 Mbps
Video Format	MP4 (MPEG-4 AVC/H.264)
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	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 ≤ 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	2.400-2.4835 GHz 5.725-5.850 GHz
Max Transmission Distance (unobstructed, free of interference)	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 <small>(depending on environmental conditions and mobile device)</small>	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 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

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 GB 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	LiCoO ₂
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	100 m @ 70 dB
Bit Rate	16 Kbps/32 Kbps
Operating Temperature Range	-10° to 40° C (14° to 104° F)\

GENERAL :

Weight (with propellers, without accessories)	920 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

•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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