



MAVIC 3 ENTERPRISE Series

Your Everyday Commercial Drone

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

AIRCRAFT

Dimensions:	[Folded without propellers]	221×96×90 mm	(L×W×H)
	[Unfolded without propellers]	348×283×108 mm	(L×W×H)
Diagonal Distance:	380 mm	Max Take-off Weight:	1,050 g
Weight: [with propellers, without accessories]		Max Ascent Speed:	6 m/s (Normal Mode) 8 m/s (Sport Mode)
DJI Mavic 3E:	915 g	Max Descent Speed:	6 m/s
DJI Mavic 3T:	920 g		
Max Flight Speed:	[at sea level, no wind]	- Normal Mode	15 m/s
		- Sport Mode	Forward: 21 m/s Side: 20 m/s Backward: 19 m/s
Max Wind Speed Resistance:	12 m/s	Max Take-off Altitude:	6000 m Above Sea Level
Max Flight Time:	45 min	Max Hover Time:	38 min
Max Flight Distance:	32 km	Max Angular Velocity:	200°/s
Max Tilt Angle:	30° (Normal Mode) 35° (Sport Mode)	GNSS:	GPS+Galileo+BeiDou+GLONASS (GLONASS only when RTK module enabled)
Hovering Accuracy:		Horizontal:	
Vertical:	±0.1 m (Vision System enabled) ±0.5 m (with GNSS) ±0.1 m (with RTK)	±0.3 m (Vision System enabled) ±0.5 m (with High-Precision Positioning System) ±0.1 m (with RTK)	
Operating Temp:	-10° to 40° C	Internal Storage:	N/A
Motor Model:	2008	Propeller Model:	9453F Propellers for Enterprise
Beacon:	Built-in		

WIDE CAMERA

	DJI Mavic 3E	DJI Mavic 3T
Sensor:	4/3 CMOS, Effective pixels: 20 MP	1/2-inch CMOS, Effective pixels: 48 MP
Lens:		
FOV:	84°	84°
Format Equivalent:	24 mm	24 mm
Aperture:	f/2.8-f/11	f/2.8
Focus:	1 m to ∞	1 m to ∞
ISO Range:	100-6400	100-25600
Shutter Speed:		
Electronic Shutter	8-1/8000 s	8-1/8000 s
Mechanical Shutter	8-1/2000 s	
Max Image Size:	5280×3956	8000×6000

OPTRON (Pty) Ltd

Tel: +27 12 683 4500
 Email: info@optron.com
 Website: www.optron.com

Lakefield Office Park (Building C)
 272 West Avenue, Centurion 0157
 SOUTH AFRICA

OPTRON

DJI Mavic 3E

DJI Mavic 3T

Still Photography Modes

Single:	20 MP	12 MP/48 MP
Timed:	20 MP	12 MP/48 MP
JPEG:	0.7/1/2/3/5/7/10/15/20/30/60 s	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	12 MP
Panorama:	20 MP (raw image)	12 MP (raw); 100 MP (stitched)

Bitrate:	4K: 130 Mbps FHD: 70 Mbps	4K: 85 Mbps FHD: 30 Mbps
-----------------	------------------------------	-----------------------------

Photo Format:	JPEG/DNG (RAW)	DJI Mavic 3T: JPEG
----------------------	----------------	--------------------

Video Resolution: H.264 | 4K: 3840×2160@30fps | FHD: 1920×1080@30fps

Supported File Formats: exFAT

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
Shutter Speed:	Electronic Shutter: 8-1/8000 s		Aperture: f/4.4
Max Image Size:	4000×3000		Focus: 3 m to ∞
Video Resolution:	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps	Photo Format:	JPEG
		Video Format:	MP4 (MPEG-4 AVC/H.264)
		Digital Zoom:	8x (56x hybrid zoom)

DJI Mavic 3E

DJI Mavic 3T

ISO Range:	100-6400	100-25600
-------------------	----------	-----------

Still Photography Modes

Single:	12 MP	12 MP
Timed:	12 MP	12 MP
JPEG:	0.7/1/2/3/5/7/10/15/20/30/60 s	2/3/5/7/10/15/20/30/60 s
Smart Low-light Shooting:	12 MP	12 MP

Bitrate:	4K: 130 Mbps FHD: 70 Mbps	4K: 85 Mbps FHD: 30 Mbps
-----------------	------------------------------	-----------------------------

THERMAL CAMERA

Thermal Imager:	Uncooled VOx Microbolometer	Lens	DFOV: 61° Format Equivalent: 40 mm
Pixel Pitch:	12 μm		Aperture: f/1.0
Frame Rate:	30 Hz		Focus: 5 m to ∞
Sensitivity:	≤50 mk@F1.1	Photo Format:	JPEG (8-bit) R-JPEG (16-bit)

Temp Measurement Method: Spot Meter, Area Measurement

Temp Measurement Range: -20° to 150° C (High Gain Mode) | 0° to 500° C (Low Gain Mode)

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

Still Photography Modes (DJI Mavic 3T):

Single:	640×512	Video Resolution:	640×512@30fps
Timed:	640×512	Bitrate:	6 Mbps
		Video Format:	MP4 (MPEG-4 AVC/H.264)

OPTRON (Pty) Ltd

Tel: +27 12 683 4500
Email: info@optron.com
Website: www.optron.com

Lakefield Office Park (Building C)
272 West Avenue, Centurion 0157
SOUTH AFRICA

OPTRON

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

Digital Zoom: 28x

Infrared Wavelength: 8-14 μm

Infrared Temp Measurement Accuracy: $\pm 2^\circ\text{C}$ or $\pm 2\%$

GIMBAL

Stabilization: 3-axis (tilt, roll, pan)

Controllable Range: Tilt: -90° to 35°
Pan: Not controllable

Max Control Speed (tilt): $100^\circ/\text{s}$

Angular Vibration Range: $\pm 0.007^\circ$

DJI Mavic 3E

DJI Mavic 3T

Mechanical Range: Tilt: -135° to 100° -135° to 45°
Roll: -45° to 45° -45° to 45°
Pan: -27° to 27° -27° to 27°

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/Back 100° , Left/Right 90°

Downward

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

Operating Frequency: 2.400-2.4835 GHz

Live View Quality: Remote Controller: 1080p/30fps

5.725-5.850 GHz

Max Transmission Distance:

Unobstructed / free of interference FCC: 15 km | CE: 8 km | SRRC: 8 km | MIC: 8 km
Obstructed Strong Interference: 1.5-3 km (FCC/CE/SRRC/MIC)
Medium Interference: 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)
Low Interference: 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)

Max Download Speed: 15 MB/s (with DJI RC Pro Enterprise)

Latency: Approx. 200 ms

Antenna: 4 Antennas, 2T4R

Transmission Power: 2.4 GHz: $<33\text{ dBm}$ (FCC), $<20\text{ dBm}$ (CE/SRRC/MIC)
(EIRP) 5.8 GHz: $<33\text{ dBm}$ (FCC), $<30\text{ dBm}$ (SRRC), $<14\text{ dBm}$ (CE)

OPTRON (Pty) Ltd

Tel: +27 12 683 4500
Email: info@optron.com
Website: www.optron.com

Lakefield Office Park (Building C)
272 West Avenue, Centurion 0157
SOUTH AFRICA

OPTRON

DJI RC PRO ENTERPRISE

Sensor:	1/2" CMOS, Effective pixels: 48M	Lens	Focal length: 21-75 mm (equivalent: 113-405 mm) Aperture: f/2.8-f/4.2 Focus: 5 m to ∞
Video Transmission System:	DJI O3 Enterprise Transmission		
Max Transmission Distance (unobstructed):	FCC: 15 km CE/SRRC/MIC: 8 km		
Video Transmission Operating Frequency:	2.400-2.4835 GHz 5.725-5.850 GHz		
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)		
Antenna:	4 Antennas, 2T4R	Wi-Fi Operating Frequency:	2.400-2.4835 GHz
Wi-Fi Protocol:	802.11 a/b/g/n/ac/ax Support 2x2 MIMO Wi-Fi		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:	1920x1080
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)	Rated Power:	12 W
Charging Type:	Recommended to be charged with included 100W DJI USB-C Power Adapter or 12V / 15 V USB charger		
Storage Capacity:	Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity.		
Charging Time:	Approx. 1 hour 30 minutes 100W DJI USB-C Power Adapter charging the remote controller or USB charger at 15 V Approx. 2 hours with a USB charger at 12 V Approx. 2 hours 50 minutes 100W DJI USB-C Power Adapter charging aircraft and remote controller simultaneously		
Operating Time:	Approx. 3 hours	Video Output Port :	Mini-HDMI port
Operating Temp Range:	-10° to 40° C	Storage Temperature:	-30° to 60° C (within one month) -30° to 45° C (one to three months) -30° to 35° C (three to six months)
Charging Temperature:	5° to 40° C		
Supported DJI Aircraft:	DJI Mavic 3E 3T		
GNSS:	GPS+Galileo+GLONASS		
Dimensions:	Antennas folded and controller sticks unmounted: Antennas unfolded and controller sticks mounted:		183.27x137.41x47.6 mm (LxWxH) 183.27x203.35x59.84 mm (LxWxH)
Weight:	Approx. 680 g	Model:	RM510B

OPTRON (Pty) Ltd

Tel: +27 12 683 4500
Email: info@optron.com
Website: www.optron.com

Lakefield Office Park (Building C)
272 West Avenue, Centurion 0157
SOUTH AFRICA

OPTRON

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:	Aircraft:
SanDisk Extreme PRO 64GB V30 A2 microSDXC	SanDisk Extreme 32GB V30 A1 microSDHC
SanDisk High Endurance 64GB V30 microSDXC	SanDisk Extreme PRO 32GB V30 A1 microSDXC
SanDisk Extreme 128GB V30 A2 microSDXC	SanDisk Extreme 512GB V30 A2 microSDXC
SanDisk Extreme 256GB V30 A2 microSDXC	Lexar 1066x 64GB V30 A2 microSDXC
SanDisk Extreme 512GB V30 A2 microSDXC	Kingston Canvas Go! Plus 64GB V30 A2 microSDXC
Lexar 667x 64GB V30 A2 microSDXC	Kingston Canvas React Plus 64GB V90 A1 microSDXC
Lexar High-Endurance 64GB V30 microSDXC	Kingston Canvas Go! Plus 128GB V30 A2 microSDXC
Lexar High-Endurance 128GB V30 microSDXC	Kingston Canvas React Plus 128GB V90 A1 microSDXC
Lexar 667x 256GB V30 A2 microSDXC	Kingston Canvas React Plus 256GB V90 A2 microSDXC
Lexar 512GB V30 A2 microSDXC	Samsung PRO Plus 256GB 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	

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 Temp:	5° to 40° C

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		

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 Temp Range:	-10° to 40° C (14° to 104° F)

OPTRON (Pty) Ltd

Tel: +27 12 683 4500
Email: info@optron.com
Website: www.optron.com

Lakefield Office Park (Building C)
272 West Avenue, Centurion 0157
SOUTH AFRICA

OPTRON