



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] [Unfolded without propellers]	221×96×90 mm 348×283×108 mm	(L×W×H) (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:			
Vertical:	±0.1 m (Vision System enabled) ±0.5 m (with GNSS) ±0.1 m (with RTK)	Horizontal:	±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 Mechanical Shutter: 8-1/2000 s	8-1/8000 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):		Video Resolution:	640×512@30fps	
Single:	640×512	Bitrate:	6 Mbps	
Timed:	640×512	Video Format:	MP4 (MPEG-4 AVC/H.264)	

JPEG:	2/3/5/7/10/15/20/30/60 s	Digital Zoom:	28x
Infrared Wavelength:	8-14 μm	Infrared Temp Measurement Accuracy:	±2° C or ±2%

GIMBAL

Stabilization:	3-axis (tilt, roll, pan)	Controllable Range:	Tilt: -90° to 35° Pan: Not controllable
----------------	--------------------------	---------------------	--

Max Control Speed (tilt):	100°/s	Angular Vibration Range:	±0.007°
---------------------------	--------	--------------------------	---------

DJI Mavic 3E	DJI Mavic 3T
--------------	--------------

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

SENSING

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

Forward		Backward	
Measurement Range:	0.5-20 m	Measurement Range:	0.5-16 m
Detection Range:	0.5-200 m	Effective Sensing Speed:	Flight Speed ≤12 m/s
Effective Sensing Speed:	Flight Speed ≤15 m/s	FOV:	Horizontal 90°, Vertical 103°
FOV:	Horizontal 90°, Vertical 103°		
Lateral		Upward	
Measurement Range:	0.5-25 m	Measurement Range:	0.2-10 m
Effective Sensing Speed:	Flight Speed ≤15 m/s	Effective Sensing Speed:	Flight Speed ≤6 m/s
FOV:	Horizontal 90°, Vertical 85°	FOV:	Front/Back 100°, Left/Right 90°
Downward			
Measurement Range:	0.3-18 m		
Effective Sensing Speed:	Flight Speed ≤6 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 dBm (FCC), <20 dBm (CE/SRRC/MIC)
(EIRP)	5.8 GHz: <33 dBm (FCC), <30 dBm (SRRC), <14 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: Aperture: Focus:	21-75 mm (equivalent: 113-405 mm) f/2.8-f/4.2 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:	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)	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)	
Charging Temperature:	5° to 40° C		-30° to 45° C (one to three months)	
Supported DJI Aircraft:	DJI Mavic 3E 3T		-30° to 35° C (three to six months)	
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	

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:

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 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