



## MAVIC 3 ENTERPRISE Series

### Your Everyday Commercial Drone

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

### AIRCRAFT

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

### WIDE CAMERA

|                        | DJI Mavic 3E                      | DJI Mavic 3T                           |
|------------------------|-----------------------------------|--|
| <b>Sensor:</b>         | 4/3 CMOS, Effective pixels: 20 MP | 1/2-inch CMOS, Effective pixels: 48 MP |
| <b>Lens:</b>           |                                   |  |
| 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 ∞                               |
| <b>ISO Range:</b>      | 100-6400                          | 100-25600                              |
| <b>Shutter Speed:</b>  |                                   |  |
| Electronic Shutter     | 8-1/8000 s                        | 8-1/8000 s                             |
| Mechanical Shutter     | 8-1/2000 s                        |  |
| <b>Max Image Size:</b> | 5280×3956                         | 8000×6000                              |

### OPTRON (Pty) Ltd

Tel: +27 12 683 4500  
 Email: [info@optron.com](mailto:info@optron.com)  
 Website: [www.optron.com](http://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) |

|                 |                              |                             |
|-----------------|------------------------------|-----------------------------|
| <b>Bitrate:</b> | 4K: 130 Mbps<br>FHD: 70 Mbps | 4K: 85 Mbps<br>FHD: 30 Mbps |
|-----------------|------------------------------|-----------------------------|

|                      |                |                    |
|----------------------|----------------|--------------------|
| <b>Photo Format:</b> | 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

|                          |  |                      |                                       |
|--------------------------|--|----------------------|---------------------------------------|
| <b>Sensor:</b>           | 1/2-inch CMOS, Effective pixels: 12 MP               | <b>Lens</b>          | FOV: 15°<br>Format Equivalent: 162 mm |
| <b>Shutter Speed:</b>    | Electronic Shutter: 8-1/8000 s                       |                      | Aperture: f/4.4                       |
| <b>Max Image Size:</b>   | 4000×3000  |                      | Focus: 3 m to ∞                       |
| <b>Video Resolution:</b> | H.264<br>4K: 3840×2160@30fps<br>FHD: 1920×1080@30fps | <b>Photo Format:</b> | JPEG                                  |
|                          |  | <b>Video Format:</b> | MP4 (MPEG-4 AVC/H.264)                |
|                          |  | <b>Digital Zoom:</b> | 8x (56x hybrid zoom)                  |

## DJI Mavic 3E

## DJI Mavic 3T

|                   |          |           |
|-------------------|----------|-----------|
| <b>ISO Range:</b> | 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                    |

|                 |                              |                             |
|-----------------|------------------------------|-----------------------------|
| <b>Bitrate:</b> | 4K: 130 Mbps<br>FHD: 70 Mbps | 4K: 85 Mbps<br>FHD: 30 Mbps |
|-----------------|------------------------------|-----------------------------|

## THERMAL CAMERA

|                        |                             |                      |                                       |
|------------------------|-----------------------------|----------------------|---------------------------------------|
| <b>Thermal Imager:</b> | Uncooled VOx Microbolometer | <b>Lens</b>          | DFOV: 61°<br>Format Equivalent: 40 mm |
| <b>Pixel Pitch:</b>    | 12 μm                       |                      | Aperture: f/1.0                       |
| <b>Frame Rate:</b>     | 30 Hz                       |                      | Focus: 5 m to ∞                       |
| <b>Sensitivity:</b>    | ≤50 mk@F1.1                 | <b>Photo Format:</b> | 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 | <b>Video Resolution:</b> | 640×512@30fps          |
| Timed:  | 640×512 | <b>Bitrate:</b>          | 6 Mbps                 |
|         |         | <b>Video Format:</b>     | MP4 (MPEG-4 AVC/H.264) |

## OPTRON (Pty) Ltd

Tel: +27 12 683 4500  
Email: [info@optron.com](mailto:info@optron.com)  
Website: [www.optron.com](http://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  $\mu\text{m}$

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

## GIMBAL

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

Controllable Range: Tilt:  $-90^\circ$  to  $35^\circ$   
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:  $-135^\circ$  to  $100^\circ$        $-135^\circ$  to  $45^\circ$   
Roll:  $-45^\circ$  to  $45^\circ$                                $-45^\circ$  to  $45^\circ$   
Pan:  $-27^\circ$  to  $27^\circ$                                   $-27^\circ$  to  $27^\circ$

## 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  $90^\circ$ , Vertical  $103^\circ$

### Backward

Measurement Range: 0.5-16 m  
Effective Sensing Speed: Flight Speed  $\leq 12\text{ m/s}$   
FOV: Horizontal  $90^\circ$ , Vertical  $103^\circ$

### Lateral

Measurement Range: 0.5-25 m  
Effective Sensing Speed: Flight Speed  $\leq 15\text{ m/s}$   
FOV: Horizontal  $90^\circ$ , Vertical  $85^\circ$

### Upward

Measurement Range: 0.2-10 m  
Effective Sensing Speed: Flight Speed  $\leq 6\text{ m/s}$   
FOV: Front/Back  $100^\circ$ , Left/Right  $90^\circ$

### Downward

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

### 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](mailto:info@optron.com)  
Website: [www.optron.com](http://www.optron.com)

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

# OPTRON

## DJI RC PRO ENTERPRISE

|   |  |                                       |   |
|---|--|---------------------------------------|---|
| <b>Sensor:</b>                                      | 1/2" CMOS, Effective pixels: 48M   | <b>Lens</b>                           | <b>Focal length:</b> 21-75 mm (equivalent: 113-405 mm)<br><b>Aperture:</b> f/2.8-f/4.2<br><b>Focus:</b> 5 m to $\infty$ |
| <b>Video Transmission System:</b>                   | DJI O3 Enterprise Transmission   |                                       |   |
| <b>Max Transmission Distance (unobstructed):</b>    | FCC: 15 km   CE/SRRC/MIC: 8 km   |                                       |   |
| <b>Video Transmission Operating Frequency:</b>      | 2.400-2.4835 GHz   5.725-5.850 GHz   |                                       |   |
| <b>Video Transmission Transmitter Power (EIRP):</b> | 2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)<br>5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <23 dBm (SRRC)  |                                       |   |
| <b>Antenna:</b>                                     | 4 Antennas, 2T4R   | <b>Wi-Fi Operating Frequency:</b>     | 2.400-2.4835 GHz  |
| <b>Wi-Fi Protocol:</b>                              | 802.11 a/b/g/n/ac/ax<br>Support 2x2 MIMO Wi-Fi   |                                       | 5.150-5.250 GHz<br>5.725-5.850 GHz  |
| <b>Wi-Fi Transmitter Power (EIRP):</b>              | 2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC)<br>5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC)<br>5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)  |                                       |   |
| <b>Bluetooth Protocol:</b>                          | Bluetooth 5.1  | <b>Bluetooth Operating Frequency:</b> | 2.400-2.4835 GHz  |
| <b>Bluetooth Transmitter Power (EIRP):</b>          | < 10 dBm   | <b>Screen Resolution:</b>             | 1920x1080   |
| <b>Screen Size:</b>                                 | 5.5 inches   | <b>Screen:</b>                        | 60 fps  |
| <b>Brightness:</b>                                  | 1,000 nits   | <b>Touchscreen Control:</b>           | 10-point multi-touch  |
| <b>Battery:</b>                                     | Li-ion (5000 mAh @ 7.2 V)  | <b>Rated Power:</b>                   | 12 W  |
| <b>Charging Type:</b>                               | Recommended to be charged with included 100W DJI USB-C Power Adapter or 12V / 15 V USB charger   |                                       |   |
| <b>Storage Capacity:</b>                            | Internal Storage (ROM): 64 GB<br>Supports a microSD card for expanded capacity.  |                                       |   |
| <b>Charging Time:</b>                               | Approx. 1 hour 30 minutes 100W DJI USB-C Power Adapter charging the remote controller or USB charger at 15 V<br>Approx. 2 hours with a USB charger at 12 V<br>Approx. 2 hours 50 minutes 100W DJI USB-C Power Adapter charging aircraft and remote controller simultaneously |                                       |   |
| <b>Operating Time:</b>                              | Approx. 3 hours  | <b>Video Output Port :</b>            | Mini-HDMI port  |
| <b>Operating Temp Range:</b>                        | -10° to 40° C  | <b>Storage Temperature:</b>           | -30° to 60° C (within one month)<br>-30° to 45° C (one to three months)<br>-30° to 35° C (three to six months)          |
| <b>Charging Temperature:</b>                        | 5° to 40° C  |                                       |   |
| <b>Supported DJI Aircraft:</b>                      | DJI Mavic 3E   3T  |                                       |   |
| <b>GNSS:</b>  | GPS+Galileo+GLONASS  |                                       |   |
| <b>Dimensions:</b>                                  | Antennas folded and controller sticks unmounted:<br>Antennas unfolded and controller sticks mounted:   |                                       | 183.27x137.41x47.6 mm (LxWxH)<br>183.27x203.35x59.84 mm (LxWxH)   |
| <b>Weight:</b>                                      | Approx. 680 g  | <b>Model:</b>                         | RM510B  |

### OPTRON (Pty) Ltd

Tel: +27 12 683 4500  
Email: [info@optron.com](mailto:info@optron.com)  
Website: [www.optron.com](http://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

|   |   |
|---|---|
| <b>Remote Controller:</b>                         | <b>Aircraft:</b>                                  |
| 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

|                              |          |                          |             |
|------------------------------|----------|--------------------------|-------------|
| <b>Capacity:</b>             | 5000 mAh | <b>Standard Voltage:</b> | 15.4 V      |
| <b>Max Charging Voltage:</b> | 17.6 V   | <b>Type:</b>             | LiPo 4S     |
| <b>Chemical System:</b>      | LiCoO2   | <b>Energy:</b>           | 77 Wh       |
| <b>Weight:</b>               | 335.5 g  | <b>Charging Temp:</b>    | 5° to 40° C |

## CHARGER

|                |  |                      |       |
|----------------|--|----------------------|-------|
| <b>Input:</b>  | 100-240 V (AC Power), 50-60 Hz, 2.5 A  | <b>Output Power:</b> | 100 W |
| <b>Output:</b> | Max. 100 W (total)<br>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

|                                    |                      |                       |                                     |
|------------------------------------|----------------------|-----------------------|-------------------------------------|
| <b>Input:</b>                      | USB-C: 5-20 V, 5.0 A | <b>Output:</b>        | Battery Port: 12-17.6 V, 8.0 A      |
| <b>Rated Power:</b>                | 100 W                | <b>Charging Type:</b> | Three batteries charged in sequence |
| <b>Charging Temperature Range:</b> | 5° to 40° C          |                       |                                     |

## RTK MODULE

|                    |                           |                |               |
|--------------------|---------------------------|----------------|---------------|
| <b>Dimensions:</b> | 50.2×40.2×66.2 mm (L×W×H) | <b>Weight:</b> | 24±2 g        |
| <b>Interface:</b>  | USB-C                     | <b>Power:</b>  | Approx. 1.2 W |

**RTK Positioning Accuracy:** (RTK Fix) Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

## SPEAKER

|                    |                            |                                      |                               |
|--------------------|----------------------------|--------------------------------------|-------------------------------|
| <b>Dimensions:</b> | 114.1×82.0×54.7 mm (L×W×H) | <b>Weight:</b>                       | 85±2 g                        |
| <b>Interface:</b>  | USB-C                      | <b>Rated Power:</b>                  | 3 W                           |
| <b>Max Volume:</b> | 110 dB @ 1 m               | <b>Effective Broadcast Distance:</b> | 100 m @ 70 dB                 |
| <b>Bit Rate:</b>   | 16 Kbps/32 Kbps            | <b>Operating Temp Range:</b>         | -10° to 40° C (14° to 104° F) |

### OPTRON (Pty) Ltd

Tel: +27 12 683 4500  
Email: [info@optron.com](mailto:info@optron.com)  
Website: [www.optron.com](http://www.optron.com)

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

# OPTRON