

## TECHNICAL SPECIFICATIONS – MAVIC 3 COMBO

### AIRCRAFT

- **Takeoff Weight**
- Mavic 3: 895 g  
Mavic 3 Cine: 899 g
- **Dimensions (Folded/Unfolded)**
- Folded (without propellers) 221×96.3×90.3 mm  
(Length×Width×Height)  
Unfolded (without propellers) 347.5×283×107.7 mm  
(Length×Width×Height)
- **Diagonal Length**
- 380.1 mm
- **Max Ascent Speed**
- 1 m/s (C mode)  
6 m/s (N mode)  
8 m/s (S mode)
- **Max Descent Speed**
- 1 m/s (C mode)  
6 m/s (N mode)  
6 m/s (S mode)
- **Max Flight Speed (at sea level, no wind)**
- 5 m/s (C mode)  
15 m/s (N mode)  
19 m/s (S mode)
- **Max Service Ceiling Above Sea Level**
- 6000 m
- **Max Flight Time (no wind)**
- 46 minutes
- **Max Hovering Time (no wind)**
- 40 minutes
- **Max Flight Distance**
- 30 km
- **Max Wind Speed Resistance**
- 12 m/s
- **Max Tilt Angle**
- 25° (C mode)  
30° (N mode)  
35° (S mode)
- **Max Angular Velocity**
- 200°/s
- **Operating Temperature**
- -10° to 40° C (14° to 104° F)
- **GNSS**
- GPS + Galileo + BeiDou
- **Hovering Accuracy Range**
- Vertical: ±0.1 m (with Vision Positioning); ±0.5 m  
(with GNSS Positioning)  
Horizontal: ±0.3 m (with Vision Positioning); ±0.5 m  
(with High-Precision Positioning System)
- **Internal Storage**
- Mavic 3: 8 GB (available space is approx. 7.2 GB)  
Mavic 3 Cine: 1TB (available space is approx. 934.8 GB)



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## HASSELBLAD CAMERA

- **Sensor**
- 4/3 CMOS, Effective pixels: 20 MP
- **Lens**
- FOV: 84°  
Format Equivalent: 24 mm  
Aperture: f/2.8 to f/11  
Focus: 1 m to  $\infty$  (with autofocus)
- **ISO Range**
- Video: 100-6400  
Still Image: 100-6400
- **Shutter Speed**
- Electronic Shutter: 8-1/8000 s
- **Max Image Size**
- Main Unit: 5280x3956
- **Still Photography Modes**
- Single shot: 20MP Photos  
Automatic Exposure Bracketing (AEB): 20 MP, 3/5 bracketed frames at 0.7 EV  
Timed: 20 MP, 2/3/5/7/10/15/20/30/60 s
- **Video Resolution**
- Apple ProRes 422 HQ  
5.1K: 5120x2700@24/25/30/48/50fps  
DCI 4K: 4096x2160@24/25/30/48/50/60/120\*fps  
4K: 3840x2160@24/25/30/48/50/60/120\*fps

H.264/H.265

5.1K: 5120x2700@24/25/30/48/50fps

DCI 4K: 4096x2160@24/25/30/48/50/60/120\*fps

4K: 3840x2160@24/25/30/48/50/60/120\*fps

FHD: 1920x1080p@24/25/30/48/50/60/120\*/200\*\*fps

\* Framerates above are recording framerates. Videos will be played as slow-motion videos.

\*\* This function will be available through an upcoming firmware update.

- **Max Video Bitrate**
- H.264/H.265 Bitrate: 200 Mbps
- **Supported File Formats**
- exFAT
- **Photo Format**
- JPEG/DNG (RAW)
- **Video Formats**
- Mavic 3:  
MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)

Mavic 3 Cine:

MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)

MOV (Apple ProRes 422 HQ)

## TELE CAMERA

- **Sensor**
- 1/2-inch CMOS
- **Shutter Speed**
- Electronic Shutter: 2-1/8000 s
- **Lens**

- FOV: 15°  
Format Equivalent: 162mm  
Aperture: f/4.4  
Focus: 3 m to  $\infty$
- **ISO Range**
- Video: 100-6400  
Still Image: 100-6400
- **Max Image Size**
- 4000×3000
- **Photo Format**
- JPEG
- **Video Formats**
- MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)
- **Still Photography Modes**
- Single shot: 12MP Photos
- **Video Resolution**
- H264/H.265  
4K: 3840×2160@30 fps  
FHD: 1920×1080@30 fps
- **Digital Zoom**
- 4x

#### GIMBAL

- **Stabilization**
- 3-axis motorized (tilt, roll, pan)
- **Mechanical Range**
- Tilt: -135° to 100°  
Roll: -45° to 45°  
Pan: -27° to 27°
- **Controllable Range**
- Tilt: -90° to 35°  
Pan: -5° to 5°
- **Max Control Speed (tilt)**
- 100°/s
- **Angular Vibration Range**
- $\pm 0.007^\circ$

#### SENSING

- **Sensing System**
- 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  $\leq$  15m/s  
FOV: Horizontal 90°, Vertical 103°
- **Backward**
- Measurement Range: 0.5-16 m  
Effective Sensing Speed: Flight Speed  $\leq$  12m/s  
FOV: Horizontal 90°, Vertical 103°
- **Lateral**
- Measurement Range: 0.5-25 m  
Effective Sensing Speed: Flight Speed  $\leq$  15m/s  
FOV: Horizontal 90°, Vertical 85°



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- **Upward**
- Measurement Range: 0.2-10 m  
Effective Sensing Speed: Flight Speed  $\leq$  6m/s  
FOV: Front and Back 100°, Left and Right 90°
- **Downward**
- Measurement Range: 0.3-18 m  
Effective Sensing Speed: Flight Speed  $\leq$  6m/s  
FOV: Front and Back 130°, Left and Right 160°
- **Operating Environment**
- Forward, Backward, Left, Right, and Upward: Surface with a clear pattern and adequate lighting (lux>15)  
Downward: Surface with a clear pattern and adequate lighting (lux >15). Diffuse reflective surface with diffuse reflectivity>20% (e.g. wall, tree, person)

## VIDEO TRANSMISSION

- **Video Transmission System**
- O3+
- **Live View Quality**
- Remote Controller: 1080p@30fps/1080p@60fps
- **Operation Frequency**
- 2.400-2.4835 GHz  
5.725-5.850 GHz
- **Max Transmission Distance (unobstructed, free of interference and aligned with controller)**
- 2.400-2.4835 GHz; 5.725-5.850 GHz  
FCC: 15 km  
CE: 8 km  
SRRC: 8 km  
MIC: 8 km
- **Signal Transmission Ranges (FCC)**
- Strong Interference (urban landscape, limited line of sight, many competing signals): Approx. 1.5-3 km  
Medium Interference (suburban landscape, open line of sight, some competing signals): Approx. 3-9 km  
Low Interference (open landscape abundant line of sight, few competing signals): Approx. 9-15 km

Data is tested under different standards in open areas free of interference. It only refers to the maximum, one-way flight distance without considering Return to Home. Please pay attention to RTH prompts in the DJI Fly app during actual flight.

- **Max Download Bitrate**
- O3+:  
5.5MB/s (with RC-N1 remote controller)  
15MB/s (with DJI RC Pro remote controller)  
Wi-Fi 6:  
80MB/s\*

\*Measured in laboratory environments with little interference in countries/regions that support both 2.4GHz and 5.8GHz, and the footage is saved in the built-in SSD or internal storage. Download speed may vary depending on actual conditions.

- **Latency (depending on environmental conditions and mobile device)**
- 130 ms (with RC-N1 remote controller)  
120 ms (with DJI RC Pro remote controller)
- **Antennas**
- 4 antennas, 2T4R
- **Transmitter Power (EIRP)**



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- 2.4 GHz:  $\leq 33$  dBm (FCC);  $\leq 20$  dBm (CE/SRRC/MIC)
- 5.8 GHz:  $\leq 33$  dBm (FCC),  $\leq 30$  dBm (SRRC),  $\leq 14$  dBm(CE)

#### BATTERY

- **Capacity**
- 5000 mAh
- **Voltage**
- 15.4 V
- **Charging Voltage Limit**
- 17.6 V
- **Battery Type**
- LiPo 4S
- **Energy**
- 77 Wh
- **Weight**
- 335.5 g
- **Charging Temperature**
- 5° to 40° C (41° to 104° F)

#### BATTERY CHARGER

- **Input**
- 100-240 V AC, 47-63 Hz, 2.0 A
- **USB-C Output**
- USB-C: 5.0 V=5.0 A/9.0 V=5.0 A/12.0 V=5.0 A/15.0 V=4.3 A/20.0 V=3.25 A/5.0~20.0 V=3.25 A
- **USB-A output**
- USB-A: 5 V=2 A
- **Rated Power**
- 65 W

#### CHARGING HUB

- **Input**
- USB-C: 5-20 V=5.0 A max
- **Output**
- Battery: 12-17.6 V=5.0 A max
- **Rated Power**
- 65 W
- **Charging Type**
- Charges three batteries in sequence.
- **Charging Temperature Range**
- 5° to 40° C (41° to 104° F)

#### CAR CHARGER

- **Input**
- Car Power Input: 12.7-16 V=6.5 A, rated voltage 14 V DC
- **Output**
- USB-C: 5.0 V=5.0 A/9.0 V=5.0 A/12.0 V=5.0 A/15.0 V=4.3A/20.0 V=3.25 A/5.0~20.0 V=3.25 A
- USB-A: 5 V=2 A
- **Rated Power**
- 65 W
- **Charging Time**
- Approx. 96 minutes
- **Charging Temperature Range**
- 5° to 40° C (41° to 104° F)

#### STORAGE

- **Recommended microSD Cards**



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- Standard bitrate video recommended microSD Cards:  
H.265 :  
5.1K : 5120x2700@24/25/30/48/50fps  
DCI 4K : 4096x2160@24/25/30/48/50/60/120fps  
4K : 3840x2160@24/25/30/48/50/60/120fps  
FHD : 1920x1080@24/25/30/48/50/60/120/200\*fps  
H.264 :  
DCI 4K : 4096x2160@24/25/30/48/50/60fps  
4K : 3840x2160@24/25/30/48/50/60fps  
FHD: 1920x1080@24/25/30/48/50/60/120/200\*fps  
SanDisk Extreme Pro 64G v30 A2 microSDXC  
SanDisk Extreme Pro 128G v30 A2 microSDXC  
SanDisk Extreme Pro 256G v30 A2 microSDXC  
SanDisk Extreme Pro 400G v30 A2 microSDXC  
SanDisk High Endurance 64G v30 XC I microSDXC  
SanDisk High Endurance 128G v30 XC I microSDXC  
SanDisk High Endurance 256G v30 XC I microSDXC  
SanDisk Extreme 128G v30 A2 microSDXC  
SanDisk Extreme 256G v30 A2 microSDXC  
SanDisk Extreme 512G v30 A2 microSDXC  
Lexar 667x 64G microSDXC  
Lexar 667x 128G microSDXC  
Lexar 667x 256G microSDXC  
Lexar High Endurance 64G V30 XC I microSDXC  
Lexar High Endurance 128G microSDXC  
Samsung Evo Plus 64G microSDXC  
Samsung Evo Plus 128G microSDXC  
Samsung Evo Plus 256G microSDXC  
Samsung Evo Plus 512G microSDXC"

High bitrate video recommended microSD Cards:

H.264 :  
5.1K: 5120x2700@24/25/30/48/50fps  
DCI 4K: 4096x2160@120fps  
4K : 3840x2160@120fps  
SanDisk Extreme Pro 64G v30 A2 microSDXC  
SanDisk Extreme Pro 128G v30 A2 microSDXC  
SanDisk Extreme Pro 256G v30 A2 microSDXC  
SanDisk Extreme Pro 400G v30 A2 microSDXC  
SanDisk High Endurance 64G v30 XC I microSDXC  
SanDisk High Endurance 128G v30 XC I microSDXC  
SanDisk High Endurance 256G v30 XC I microSDXC  
Lexar High Endurance 64G V30 XC I microSDXC  
Lexar High Endurance 128G microSDXC  
Lexar 667x 64G microSDXC Lexar 667x 128G microSDXC  
Lexar 667x 256G microSDXC

MicroSD Cards are not capable of recording Apple ProRes 422 HQ codec.

\* This function will be available through an upcoming firmware update.

#### SSD SPECS

- Capacity: 1 TB  
Max Read Speed: 700MB/s\*  
Max Write Speed: 471MB/s\*



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\* Data refers to the read and write speed inside the aircraft. Actual read and write speed of computer and other external devices may affect actual speed.

#### DJI RC-N1 REMOTE CONTROLLER

- **Remote Controller Transmission System**
- When used with different aircraft hardware configurations, DJI RC-N1 Remote Controllers will automatically select the corresponding firmware version for updating and support the following transmission technologies enabled by the hardware performance of the linked aircraft models:
  - a. DJI Mini 2/ DJI Mavic Air 2: O2
  - b. DJI Air 2S: O3
  - c. DJI Mavic 3: O3+
- **Max Supported Mobile Device Size**
- 180×86×10 mm (Length×Width×Height)
- **Operating Temperature**
- 0° to 40° C (32° to 104° F)
- **Transmitter Power (EIRP)**
- 2.4 GHz:  
≤26 dBm (FCC), ≤20 dBm (CE/SRRC/MIC)
- 5.8 GHz:  
≤26 dBm (FCC/SRRC), ≤14 dBm (CE)
- **Battery Life**
- Without charging any mobile device: 6 hr;  
when charging mobile device: 4 hr
- **Supported USB Port Types**
- Lightning, Micro USB, USB-C