

# Specs

## DJI Mavic 3 Classic

### Aircraft

<b>Takeoff Weight</b>	895 g
<b>Dimensions</b>	Folded (without propellers): 221×96.3×90.3 mm (L×W×H) Unfolded (without propellers): 347.5×283×107.7 mm (L×W×H)
<b>Max Ascent Speed</b>	8 m/s
<b>Max Descent Speed</b>	6 m/s
<b>Max Horizontal Speed (at sea level, no wind)</b>	21 m/s <small>No faster than 19 m/s in EU regions.</small>
<b>Max Takeoff Altitude</b>	6000 m
<b>Max Flight Time</b>	46 minutes <small>Measured in a controlled test environment. Specific test conditions are as follows: flying at a constant speed of 37.4 kph in a windless environment at sea level, camera parameters set to 1080p/24fps, video mode on, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version.</small>
<b>Max Hovering Time</b>	40 minutes <small>Measured in a controlled test environment. Specific test conditions are as follows: hovering in a windless environment at sea level with APAS off, AirSense, and firmware version.</small>
<b>Max Flight Distance</b>	30 km
<b>Max Wind Speed Resistance</b>	12 m/s
<b>Max Tilt Angle</b>	35°
<b>Operating Temperature</b>	-10° to 40° C (14° to 104° F)
<b>Global Navigation Satellite System</b>	GPS + Galileo + BeiDou
<b>Hovering Accuracy Range</b>	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)
<b>Internal Storage</b>	8 GB (approx. 7.9GB available space)

### Hasselblad Camera

<b>Image Sensor</b>	4/3 CMOS, Effective Pixels: 20 MP
<b>Lens</b>	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11 Focus: 1 m to ∞
<b>ISO Range</b>	Video: Normal, Slow-motion: 100-6400 (normal color) 400-1600 (D-Log) 100-1600 (HLG) Night Mode: 800-12800 (normal color)

	Photo: 100-6400
<b>Shutter Speed</b>	Electronic Shutter: 8-1/8000 s
<b>Max Image Size</b>	5280×3956
<b>Still Photography Modes</b>	Single Shot: 20 MP Burst Shooting: 20 MP, 3/5/7 frames Automatic Exposure Bracketing (AEB): 20 MP, 3/5 frames at 0.7 EV step Timed: 20 MP, 2/3/5/7/10/15/20/30/60 s
<b>Photo Format</b>	JPEG/DNG (RAW)
<b>Video Resolution</b>	H.264/H.265 5.1K: 5120×2700@24/25/30/48/50 fps DCI 4K: 4096×2160@24/25/30/48/50/60/120* fps 4K: 3840×2160@24/25/30/48/50/60/120* fps FHD: 1920×1080@24/25/30/48/50/60/120*/200* fps <small>*Recording frame rates. The corresponding video plays as slow-motion video.</small>
<b>Video Format</b>	MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)
<b>Max Video Bitrate</b>	H.264/H.265: 200 Mbps
<b>Supported File System</b>	exFAT
<b>Color Mode</b>	Normal/HLG/D-Log
<b>Digital Zoom</b>	3×

## Gimbal

<b>Stabilization</b>	3-axis mechanical gimbal (tilt, roll, pan)
<b>Mechanical Range</b>	Tilt: -135° to 100° Roll: -45° to 45° Pan: -27° to 27°
<b>Controllable Range</b>	Tilt: -90° to 35° Pan: -5° to 5°
<b>Max Control Speed (tilt)</b>	100°/s
<b>Angular Vibration Range</b>	±0.007°

## Sensing

<b>Sensing Type</b>	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft
<b>Forward</b>	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°
<b>Backward</b>	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤ 12 m/s FOV: Horizontal 90°, Vertical 103°
<b>Lateral</b>	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, Left, Right, and Upward:  
surfaces with discernible patterns and adequate lighting (lux > 15)  
Downward:  
surfaces with discernible patterns, diffuse reflectivity > 20% (e.g. walls, trees, people), and adequate lighting (lux > 15)

## Video Transmission

**Video Transmission System** O3+

**Live View Quality** Remote Controller:  
1080p/30fps, 1080p/60fps

**Operating Frequency** 2.400-2.4835 GHz  
5.725-5.850 GHz

**Transmission Power (EIRP)** 2.400-2.4835 GHz:  
< 33 dBm (FCC)  
< 20 dBm (CE/SRRC/MIC)  
5.725-5.850 GHz:  
< 33 dBm (FCC)  
< 30 dBm (SRRC)  
< 14 dBm (CE)

**Max Transmission Distance (free of interference)** FCC: 15 km  
CE: 8 km  
SRRC: 8 km  
MIC: 8 km  
Means in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for one-way, non-return links under each standard. During your flight, please pay attention to the reminders in the DJI Fly app.

**Max Transmission Distance (with interference)** Strong Interference: urban landscape, approx. 1.5-3 km  
Medium Interference: suburban landscape, approx. 3-9 km  
Low Interference: suburb/seaside, approx. 9-15 km  
Actual flight distance is standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual flight distance.

**Max Download Speed** O3+:  
5.5 MB/s (with DJI RC-N1 Remote Controller)  
15 MB/s (with DJI RC Pro)  
5.5 MB/s (with DJI RC)  
Wi-Fi 6: 80 MB/s\*  
Internal storage. Download speeds may vary depending on the actual conditions. \*In countries/regions that support both 2.4 GHz and 5.8 GHz, with footage saved to the internal storage.

**Lowest Latency** 130 ms (with DJI RC-N1 Remote Controller)  
120 ms (with DJI RC Pro)  
130 ms (with DJI RC)  
Depending on the actual environment and mobile device.

**Antennas** 4 antennas, 2T4R

## Battery

**Capacity** 5000 mAh

<b>Weight</b>	335.5 g
<b>Nominal Voltage</b>	15.4 V
<b>Charging Voltage Limit</b>	17.6 V
<b>Type</b>	Li-ion 4S
<b>Energy</b>	77 Wh
<b>Charging Temperature</b>	5° to 40° C (41° to 104° F)
<b>Charging Time</b>	Approx. 96 minutes <small>Use the included data cable of the DJI 65W Portable Charger.</small>

## Charger

<b>Input</b>	100-240 V (AC), 47-63 Hz, 2 A
<b>Output</b>	USB-C: 5 V, 5 A 9 V, 5 A 12 V, 5 A 15 V, 4.3 A 20 V, 3.25 A 5-20 V, 3.25 A  USB-A: 5 V, 2 A
<b>Rated Power</b>	65 W

## Battery Charging Hub

<b>Input</b>	USB-C: 5-20 V, max 5 A
<b>Output</b>	Battery Port: 12-17.6 V, max. 5 A
<b>Rated Power</b>	DJI Mavic 3 Battery Charging Hub: 65 W DJI Mavic 3 Battery Charging Hub (100W): 100 W
<b>Charging Type</b>	Three batteries charged in sequence
<b>Compatibility</b>	DJI Mavic 3 Intelligent Flight Battery

## Car Charger

<b>Input</b>	Car Power Input: 12.7-16 V, 6.5 A, rated voltage 14 V (DC)
<b>Output</b>	USB-C: 5 V, 5 A 9 V, 5 A 12 V, 5 A 15 V, 4.3 A 20 V, 3.25 A 5-20 V, 3.25 A  USB-A: 5 V, 2 A
<b>Rated Power</b>	65 W
<b>Charging Temperature</b>	5° to 40° C (41° to 104° F)

## Storage

<b>Recommended microSD Cards</b>	Lexar 1066x 64GB V30 A2 microSDXC Lexar 1066x 128GB V30 A2 microSDXC Lexar 1066x 256GB V30 A2 microSDXC Lexar 1066x 512GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk High Endurance 128GB V30 microSDXC SanDisk High Endurance 256GB V30 microSDXC Kingston Canvas Go! Plus 64GB V30 A2 microSDXC Kingston Canvas Go! Plus 128GB V30 A2 microSDXC Kingston Canvas Go! Plus 256GB V30 A2 microSDXC Kingston Canvas Go! Plus 512GB V30 A2 microSDXC Samsung EVO Plus 512GB V30 A2 microSDXC Samsung PRO Plus 256GB V30 A2 microSDXC Samsung PRO Plus 512GB V30 A2 microSDXC
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## Remote Controller

<b>Max Operating Time</b>	DJI RC-N1 Remote Controller Without charging any mobile device: 6 hours When charging a mobile device: 4 hours
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<b>Max Supported Mobile Device Size</b>	DJI RC-N1 Remote Controller 180×86×10 mm (L×W×H)
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<b>Operating Temperature</b>	DJI RC-N1 Remote Controller -10° to 40° C (14° to 104° F)
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<b>Transmitter Power (EIRP)</b>	DJI RC-N1 Remote Controller 2.400-2.4835 GHz: < 26 dBm (FCC) < 20 dBm (CE/SRRC/MIC)  5.725-5.850 GHz: < 26 dBm (FCC) < 23 dBm (SRRC) < 14 dBm (CE)
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