

Specs DJI Mavic Air 2 Drone

Aircraft

- **Weight**

- 570 g

- **Size**

- Folded:
180×97×74 mm (Length×Width×Height)
Unfolded:
183×253×77 mm (Length×Width×Height)

- **Diagonal Distance**

- 302 mm

- **Max Ascent Speed**

- 4 m/s (S Mode)
4 m/s (N Mode)

- **Max Descent Speed**

- 3 m/s (S Mode)
3 m/s (N Mode)
5 m/s (S Mode and N Mode during a sharp descent)
3 m/s (all modes at elevations over 4500 m)

- **Max Service Ceiling Above Sea Level**

- 5000 m

- **Max Flight Time (without wind)**

- 34 minutes

- **Max Hover Time (without wind)**

- 33 minutes

- **Max Flight Distance**

- 18.5 km

- **Max Horizontal Flight Speed**

- 19 m/s (S Mode)
12 m/s (N Mode)
5 m/s (T Mode)

- **Max Wind Resistance**

- 8.5-10.5 m/s (Level 5)

- **Max Tilt Angle**

- 35° (S Mode)
20° (N Mode)
35° (N Mode under strong wind)

- **Max Angular Velocity**

- 250°/s (S Mode)
250°/s (N Mode)

- **Operating Temperature Range**

- -10° to 40°C (14° to 104°F)

- **Operating Frequency**

- 2.400-2.4835 GHz
5.725-5.850 GHz

- **Transmitter Power (EIRP)**

- 2.400-2.4835 GHz:
FCC: ≤26 dBm
CE: ≤20 dBm
SRRC: ≤20 dBm
MIC: ≤20 dBm

5.725-5.850 GHz:

- FCC: ≤26 dBm
CE: ≤14 dBm
SRRC: ≤26 dBm

- **Hovering Accuracy Range**

- Vertical:
±0.1 m (with vision positioning)
±0.5 m (with GPS positioning)

Horizontal:

- ±0.1 m (with vision positioning)
±1.5 m (with GPS positioning)

- **Propellers**

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- Quick release, low noise, folding
- **Satellite Systems**
 - GPS+GLONASS
- **Compass**
 - Single Compass
- **IMU**
 - Single IMU
- **Internal Storage**
 - 8 GB

Battery

- **Capacity**
 - 3500 mAh
- **Voltage**
 - 11.55 V
- **Charging Voltage Limit**
 - 13.2 V
- **Battery Type**
 - LiPo 3S
- **Energy**
 - 40.42 Wh
- **Weight**
 - 198 g
- **Charging Temperature**
 - 5° to 40°C (41° to 104°F)
- **Max Charging Power**
 - 38 W

Camera

- **Sensor**

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- 1/2" CMOS
Effective Pixels: 12 MP and 48 MP
- **Lens**
 - FOV: 84°
Equivalent Focal Length: 24 mm
Aperture: f/2.8
Focus Range: 1 m to ∞
- **ISO**
 - Video:
100-6400
 - Photo (12 MP):
100-3200 (Auto)
100-6400 (Manual)
 - Photo (48 MP):
100-1600 (Auto)
100-3200 (Manual)
- **Max Photo Resolution**
 - 48 MP 8000×6000 pixel
- **Photo Modes**
 - Single: 12 MP and 48 MP
Burst: 12 MP, 3/5/7 frames
Automatic Exposure Bracketing (AEB): 12MP, 3/5 Frames at 0.7EV Bias
Timed: 12 MP 2/3/5/7/10/15/20/30/60 seconds
SmartPhoto: Scene Recognition, HyperLight, and HDR
HDR Panorama:
Vertical (3×1): 3328×8000 pixels (Width×Height)
Wide-angle (3×3): 8000×6144 pixels (Width×Height)
180° Panorama (3×7): 8192×3500 pixels (Width×Height)
Sphere (3×8+1): 8192×4096 pixels (Width×Height)
- **Photo Formats**
 - JPEG/DNG (RAW)
- **Video Resolution and Frame Rates**
 - 4K Ultra HD: 3840×2160 24/25/30/48/50/60 fps
2.7K: 2688×1512 24/25/30/48/50/60 fps

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FHD: 1920×1080 24/25/30/48/50/60/120/240 fps

4K Ultra HD HDR: 3840×2160 24/25/30 fps

2.7K HDR: 2688×1512 24/25/30 fps

FHD HDR: 1920×1080 24/25/30 fps

- **Color Profiles**

- D-Cinelike, Normal

- **Video Formats**

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

- **Max Bitrate**

- 120 Mbps

- **Supported SD Cards**

- Supports a microSD with capacity of up to 256 GB

- **Supported File Systems**

- FAT32 and exFAT

- **Zoom**

- Available

Gimbal

- **Stabilization**

- 3-axis (tilt, roll, pan)

- **Mechanical Range**

- Tilt: -135° to 45°
Roll: -45° to 45°
Pan: -100° to 100°

- **Controllable Range**

- Tilt: -90° to 0° (Default)
-90° to 24° (Extended)

- **Max Controllable Speed (tilt)**

- 100°/s

- **Angular Vibration Range**

- ±0.01°

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Vision System

- **Forward**
 - Precision Measurement Range: 0.35-22.0 m
 - Detection Range: 0.35 to 44 m
 - Effective Sensing Speed: 12 m/s
 - Field of View (FOV):
71° (horizontal), 56° (vertical)
- **Backward**
 - Precision Measurement Range: 0.37-23.6 m
 - Detection Range: 0.37-47.2 m
 - Effective Sensing Speed: 12 m/s
 - Field of View (FOV):
44° (horizontal), 57° (vertical)
- **Available Downward Sensors**
 - Dual Vision Sensors + Time of Flight Sensors (ToF)
- **Downward**
 - ToF Measurement Range: 0.1-8 m
 - Hovering Range: 0.5-30 m
 - Vision Sensor Hovering Range: 0.5-60 m
- **Left/Right**
 - None
- **Downward Auxillary Light**
 - Single LED

Safety

- **Obstacle Avoidance System**
 - Advanced Pilot Assistance Systems (APAS) 3.0

Video Transmission

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- **Transmission System**
 - OcuSync 2.0
 - 2.4 GHz/5.8 GHz Auto-Switching
- **Max Transmission Distance**
 - 10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)
- **Live View Quality**
 - 720p@30fps/1080@p30fps
- **Latency (depending on environmental conditions and mobile device)**
 - 120-130 ms
- **Video Transmission Encoding format**
 - H.265/H.264 (Auto-switches depending on encoding capabilities of device)
- **Max Transmission Bitrate**
 - 12 Mbps
- **Operating Frequency**
 - 2.400-2.4835 GHz
 - 5.725-5.850 GHz

Remote Controller

- **Remote Controller Transmission System**
 - OcuSync 2.0
- **Supported Mobile Device Connectors**
 - Lightning, Micro USB, USB Type-C
- **Max. Supported Mobile Device Size**
 - 180×86×10 mm (Height×Width×Thickness)
- **Operating Temperature**
 - -10° to 40°C (14° to 104°F)
- **Transmitter Power (EIRP)**
 - 2.400-2.4835 GHz:
 - FCC: ≤26 dBm
 - CE: ≤20 dBm
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 - MIC: ≤20 dBm

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5.725-5.850 GHz:

FCC: ≤ 26 dBm

CE: ≤ 14 dBm

SRRC: ≤ 26 dBm

- **Operating Current/Voltage**
 - 1200 mA@3.6V (Android)
 - 700 mA@ 3.6 V (iOS)

Charger

- **Charging Input**
 - 100-240 V, 50/60 Hz, 1.3 A
- **Charging Output**
 - Charging Port: 13.2 V=2.82 A
 - USB Port: 5 V=2 A
- **Voltage**
 - 13.2 V
- **Rated Power**
 - 38 W

SD Cards

- **Supported SD Cards**
 - Micro SD™
Supports a microSD card with a capacity of up to 256 GB.
A UHS-I Speed Grade 3 rating microSD card is required.
- **Recommended microSD Cards**
 - SanDisk Extreme PRO 64GB V30 A2 microSDXC
 - SanDisk High Endurance 64GB V30 microSDXC
 - SanDisk Extreme 64GB V30 A2 microSDXC
 - SanDisk Extreme 128GB V30 A2 microSDXC
 - SanDisk Extreme 256GB V30 A2 microSDXC
 - Lexar Lexar 667x 64GB V30 A2 microSDXC

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Lexar High-Endurance 64GB V30 microSDXC

Samsung EVO 64GB microSDXC

Samsung EVO Plus 64GB microSDXC

Samsung EVO Plus 256GB microSDXC

Kingston 128GB V30 microSDXC

Netac 256GB A1 microSDXC

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