

# Specs

## Aircraft



|  |   |
|--|---|
| Takeoff Weight                               | Mavic 3 Pro: 958 g<br>Mavic 3 Pro Cine: 963 g   |
| Dimensions                                   | Folded (without propellers): 231.1×98×95.4 mm (L×W×H)<br>Unfolded (without propellers): 347.5×290.8×107.7 mm (L×W×H)  |
| Max Ascent Speed                             | 8 m/s   |
| Max Descent Speed                            | 6 m/s   |
| Max Horizontal Speed (at sea level, no wind) | 21 m/s  |
| Max Takeoff Altitude                         | 6000 m  |
| Max Flight Time                              | 43 minutes<br>Measured in a controlled test environment. Specific test conditions are as follows: flying at a constant speed of 32.4 kph in a windless environment with APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary due to environment, actual use, and firmware version.  |
| Max Hovering Time                            | 37 minutes<br>Measured in a controlled test environment. Specific test conditions are as follows: hovering in a windless environment at sea level, with APAS camera parameters set to 1080p/24fps, video mode off, and from 100% battery level until 0%. Results may vary depending on the environment and firmware version.  |
| Max Flight Distance                          | 28 km<br>The flight distance is different from the video transmission distance. The data was tested in a controlled environment, under the following specific conditions: flying at a constant speed of 50.4 kph in a windless environment at sea level, with APAS off, AirSense off, camera parameters set to video mode off, and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version. |
| Max Wind Speed Resistance                    | 12 m/s  |
| Max Pitch Angle                              | 35°   |
| Operating Temperature                        | -10° to 40° C (14° to 104° F)   |
| Global Navigation Satellite System           | GPS + Galileo + BeiDou  |
| Hovering Accuracy Range                      | Vertical:<br>±0.1 m (with vision positioning)<br>±0.5 m (with GNSS positioning)<br><br>Horizontal:<br>±0.3 m (with vision positioning)<br>±0.5 m (with high-precision positioning system)   |
| Internal Storage                             | Mavic 3 Pro: 8 GB (approx. 7.9GB available space)<br>Mavic 3 Pro Cine: 1 TB (approx. 934.8GB available space)   |

# Camera

## Image Sensor

Hasselblad Camera: 4/3 CMOS, Effective Pixels: 20 MP  
Medium Tele Camera: 1/1.3" CMOS, Effective Pixels: 48 MP  
Tele Camera: 1/2" CMOS, Effective Pixels: 12 MP

## Lens

Hasselblad Camera  
FOV: 84°  
Format Equivalent: 24mm  
Aperture: f/2.8-f/11  
Focus: 1 m to ∞

Medium Tele Camera  
FOV: 35°  
Format Equivalent: 70mm  
Aperture: f/2.8  
Focus: 3 m to ∞

Tele Camera  
FOV: 15°  
Format Equivalent: 166mm  
Aperture: f/3.4  
Focus: 3 m to ∞

## ISO Range

Video  
Normal and Slow Motion:  
100-6400 (Normal)  
400-1600 (D-Log)  
100-1600 (D-Log M)  
100-1600 (HLG)

Night:  
800-12800 (Normal)

Photo  
100-6400

## Shutter Speed

Hasselblad Camera: 8-1/8000 s  
Medium Tele Camera: 2-1/8000 s  
Tele Camera: 2-1/8000 s

## Max Image Size

Hasselblad Camera: 5280×3956  
Medium Tele Camera: 8064×6048  
Tele Camera: 4000×3000

## Still Photography Modes

Hasselblad Camera  
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

Medium Tele Camera  
Single Shot: 12 MP or 48 MP  
Burst Shooting: 12 MP or 48 MP, 3/5/7 frames  
Automatic Exposure Bracketing (AEB): 12 MP or 48 MP, 3/5 frames at 0.7 EV step  
Timed:  
12 MP: 2/3/5/7/10/15/20/30/60 s  
48 MP: 7/10/15/20/30/60 s

Tele Camera  
Single Shot: 12 MP  
Burst Shooting: 12 MP, 3/5/7 frames  
Automatic Exposure Bracketing (AEB): 12 MP, 3/5 frames at 0.7 EV step  
Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s

**Photo Format** JPEG/DNG (RAW)

## Video Resolution

Hasselblad Camera  
Apple ProRes 422 HQ/422/422 LT  
5.1K: 5120×2700@24/25/30/48/50fps  
DCI 4K: 4096×2160@24/25/30/48/50/60/120\*fps  
4K: 3840×2160@24/25/30/48/50/60/120\*fps

H.264/H.265  
5.1K: 5120×2700@24/25/30/48/50fps  
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

\* Recording frame rates. The corresponding video plays as slow-motion video.

Medium Tele Camera  
Apple ProRes 422 HQ/422/422 LT  
4K: 3840×2160@24/25/30/48/50/60fps

H.264/H.265  
4K: 3840×2160@24/25/30/48/50/60fps  
FHD: 1920×1080@24/25/30/48/50/60fps

Tele Camera  
Apple ProRes 422 HQ/422/422 LT  
4K: 3840×2160@24/25/30/48/50/60fps

H.264/H.265  
4K: 3840×2160@24/25/30/50/60fps  
FHD: 1920×1080@24/25/30/50/60fps

Only the Cine version supports ProRes recording.

**Video Format** MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)  
MOV (Apple ProRes 422 HQ/422/422 LT)

Only the Cine version supports ProRes recording.

## Max Video Bitrate

Hasselblad Camera:  
H.264/H.265: 200 Mbps  
ProRes 422 HQ: 3772 Mbps  
ProRes 422: 2514 Mbps  
ProRes 422 LT: 1750 Mbps

Medium Tele Camera:  
 H.264/H.265: 160 Mbps  
 ProRes 422 HQ: 1768 Mbps  
 ProRes 422: 1178 Mbps  
 ProRes 422 LT: 821 Mbps

Tele Camera:  
 H.264/H.265: 160 Mbps  
 ProRes 422 HQ: 1768 Mbps  
 ProRes 422: 1178 Mbps  
 ProRes 422 LT: 821 Mbps

Only the Cine version supports ProRes recording.

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| <b>Supported File System</b> | exFAT |
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|                                       |  |
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| <b>Color Mode and Sampling Method</b> | <p>Hasselblad Camera</p> <p>Normal:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         8-bit 4:2:0 (H.264/H.265)</p> <p>D-Log:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         10-bit 4:2:0 (H.264/H.265)</p> <p>HLG/D-Log M:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         10-bit 4:2:0 (H.265)</p> <p>Medium Tele Camera</p> <p>Normal:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         8-bit 4:2:0 (H.264/H.265)</p> <p>HLG/D-Log M:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         10-bit 4:2:0 (H.265)</p> <p>Tele Camera</p> <p>Normal:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         8-bit 4:2:0 (H.264/H.265)</p> <p>HLG/D-Log M:<br/>         10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT)<br/>         10-bit 4:2:0 (H.265)</p> <p>Only the Cine version supports ProRes recording.</p> |
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| <b>Digital Zoom (only in Normal Video Mode and Explore Mode)</b> | <p>Hasselblad Camera: 1-3x<br/>         Medium Tele Camera: 3-7x<br/>         Tele Camera: 7-28x</p> |
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## Gimbal

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|---------------------------------|--|
| <b>Stabilization</b>            | 3-axis mechanical gimbal (tilt, roll, pan)   |
| <b>Mechanical Range</b>         | <p>Tilt: -140° to 50°<br/>         Roll: -50° to 50°<br/>         Pan: -23° to 23°</p> |
| <b>Controllable Range</b>       | <p>Tilt: -90° to 35°<br/>         Pan: -5° to 5°</p>                                   |
| <b>Max Control Speed (tilt)</b> | 100°/s   |

|                                |   |
|--------------------------------|---|
| <b>Angular Vibration Range</b> | Hovering Without Wind: $\pm 0.001^\circ$<br>Normal Mode: $\pm 0.003^\circ$<br>Sport Mode: $\pm 0.005^\circ$ |
|--------------------------------|---|

## Sensing

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|------------------------------|--|
| <b>Sensing Type</b>          | Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft  |
| <b>Forward</b>               | Measurement Range:<br>0.5-20 m<br>Detection Range:<br>0.5-200 m<br>Effective Sensing Speed:<br>Flight Speed $\leq 15$ m/s<br>FOV:<br>Horizontal $90^\circ$ , Vertical $103^\circ$  |
| <b>Backward</b>              | Measurement Range:<br>0.5-16 m<br>Effective Sensing Speed:<br>Flight Speed $\leq 12$ m/s<br>FOV:<br>Horizontal $90^\circ$ , Vertical $103^\circ$   |
| <b>Lateral</b>               | Measurement Range:<br>0.5-25 m<br>Effective Sensing Speed:<br>Flight Speed $\leq 15$ m/s<br>FOV:<br>Horizontal $90^\circ$ , Vertical $85^\circ$  |
| <b>Upward</b>                | Measurement Range:<br>0.2-10 m<br>Effective Sensing Speed:<br>Flight Speed $\leq 6$ m/s<br>FOV:<br>Front and Back $100^\circ$ , Left and Right $90^\circ$  |
| <b>Downward</b>              | Measurement Range:<br>0.3-18 m<br>Effective Sensing Speed:<br>Flight Speed $\leq 6$ m/s<br>FOV:<br>Front and Back $130^\circ$ , Left and Right $160^\circ$   |
| <b>Operating Environment</b> | Forward, Backward, Left, Right, and Upward:<br>surfaces with discernible patterns and adequate lighting (lux $> 15$ )<br>Downward:<br>surfaces with discernible patterns, diffuse reflectivity $> 20\%$ (e.g. walls, trees, people), and adequate lighting |

## Video Transmission

|                                  |  |
|----------------------------------|--|
| <b>Video Transmission System</b> | O3+  |
| <b>Live View Quality</b>         | Remote Controller:<br>1080p/30fps, 1080p/60fps |
| <b>Operating Frequency</b>       | 2.400-2.4835 GHz<br>5.725-5.850 GHz            |

|   |   |
|---|---|
| <b>Transmitter Power (EIRP)</b>                                       | <p>2.4 GHz:<br/>         &lt; 33 dBm (FCC)<br/>         &lt; 20 dBm (CE/SRRC/MIC)</p> <p>5.8 GHz:<br/>         &lt; 33 dBm (FCC)<br/>         &lt; 30 dBm (SRRC)<br/>         &lt; 14 dBm (CE)</p>  |
| <b>Max Transmission Distance (unobstructed, free of interference)</b> | <p>FCC: 15 km<br/>         CE: 8 km<br/>         SRRC: 8 km<br/>         MIC: 8 km</p> <p>Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for one-way flights under each standard. During your flight, please pay attention to RTH reminders in the DJI Fly app.</p>  |
| <b>Max Transmission Distance (unobstructed, with interference)</b>    | <p>Strong Interference: Urban landscape, approx. 1.5-3 km<br/>         Medium Interference: Suburban landscape, approx. 3-9 km<br/>         Low Interference: Suburb/seaside, approx. 9-15 km</p> <p>Data tested under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee of actual transmission distance.</p>             |
| <b>Max Transmission Distance (obstructed, with interference)</b>      | <p>Low Interference and Obstructed by Buildings: approx. 0-0.5 km<br/>         Low Interference and Obstructed by Trees: approx. 0.5-3 km</p> <p>Data tested under FCC standard in environments with typical low interference. Used for reference purposes only and provides no guarantee of actual transmission distance.</p>  |
| <b>Max Download Speed</b>   | <p>O3+:<br/>         5.5 MB/s (with DJI RC-N1 Remote Controller)<br/>         15 MB/s (with DJI RC Pro)<br/>         5.5 MB/s (with DJI RC)</p> <p>Wi-Fi 6: 80 MB/s*</p> <p>* Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz, with footage saved to storage. Download speeds may vary depending on the actual conditions.</p> |
| <b>Lowest Latency</b>   | <p>130 ms (with DJI RC-N1 Remote Controller)<br/>         120 ms (with DJI RC Pro)<br/>         130 ms (with DJI RC)</p> <p>Depending on the actual environment and mobile device.</p>  |
| <b>Antenna</b>  | 4 antennas, 2T4R  |

## Battery

|                             |   |
|-----------------------------|---|
| <b>Capacity</b>             | 5000 mAh  |
| <b>Weight</b>               | 335.5 g   |
| <b>Nominal Voltage</b>      | 15.4 V  |
| <b>Max Charging Voltage</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>        | <p>Approx. 96 minutes</p> <p>Use the included data cable of the DJI 65W Portable Charger.</p> |

Approx. 70 minutes

Use the DJI 100W USB-C Power Adapter and DJI Mavic 3 Series 100W Battery Charging Hub.

## Charger

|                    |  |
|--------------------|--|
| <b>Input</b>       | DJI 65W Portable Charger:<br>100-240 V (AC), 50-60 Hz, 2 A<br><br>DJI 100W USB-C Power Adapter:<br>100-240 V (AC), 50-60 Hz, 2.5 A   |
| <b>Output</b>      | DJI 65W Portable Charger:<br>USB-C:<br>5 V, 5 A<br>9 V, 5 A<br>12 V, 5 A<br>15 V, 4.3 A<br>20 V, 3.25 A<br>5-20 V, 3.25 A<br><br>USB-A:<br>5 V, 2 A<br><br>DJI 100W USB-C Power Adapter:<br>Max 100 W (total)<br>When both ports are used, the max output power of one port is 82 W, and the charger will dynamically all output power of the two ports according to the power load. |
| <b>Rated Power</b> | DJI 65W Portable Charger: 65 W<br>DJI 100W USB-C Power Adapter: 100 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>   | Battery Charging Hub: 65 W<br>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:<br>12.7-16 V, 6.5 A, rated voltage 14 V (DC)  |
| <b>Output</b> | USB-C:<br>5 V, 5 A<br>9 V, 5 A<br>12 V, 5 A<br>15 V, 4.3 A<br>20 V, 3.25 A<br>5-20 V, 3.25 A<br><br>USB-A:<br>5 V, 2 A |

|                      |                             |
|----------------------|-----------------------------|
| Rated Power          | 65 W                        |
| Charging Temperature | 5° to 40° C (41° to 104° F) |

## Storage

|                           |   |
|---------------------------|---|
| Recommended microSD Cards | Lexar 1066x 64GB V30 A2 microSDXC<br>Lexar 1066x 128GB V30 A2 microSDXC<br>Lexar 1066x 256GB V30 A2 microSDXC<br>Lexar 1066x 512GB V30 A2 microSDXC<br>SanDisk High Endurance 64GB V30 microSDXC<br>SanDisk High Endurance 128GB V30 microSDXC<br>SanDisk High Endurance 256GB V30 microSDXC<br>Kingston Canvas Go! Plus 64GB V30 A2 microSDXC<br>Kingston Canvas Go! Plus 128GB V30 A2 microSDXC<br>Kingston Canvas Go! Plus 256GB V30 A2 microSDXC<br>Kingston Canvas Go! Plus 512GB V30 A2 microSDXC |
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