



Clifton Cameras Product Specification

DJI Mini 3 Drone Only

Aircraft

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| Takeoff Weight | 248 g Standard aircraft weight (including the Intelligent Flight Battery, propellers, and a microSD card). The actual product weight may vary due to differences in batch materials and external factors. Registration is not required in some countries and regions. Check local laws and regulations before use. These specifications have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance, so updating to the latest firmware is highly recommended. |
| Dimensions | Folded (without propellers): 148x90x62 mm (LxWxH) Unfolded (with propellers): 251x362x72 mm (LxWxH) |
| Max Ascent Speed | 5 m/s |
| Max Descent Speed | 3.5 m/s |
| Max Horizontal Speed (at sea level, no wind) | 16 m/s The max horizontal speed is subject to dynamic local restrictions. Please abide by local laws and regulations when flying. |
| Max Takeoff Altitude | With Intelligent Flight Battery: 4000 m |
| Max Flight Time | 38 minutes Measured in a controlled test environment. Specific test conditions are as follows: flying forward at a constant speed of 21.6 kph in a windless laboratory environment, in photo mode (without photo taking operation during flight), and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version. |
| Max Hovering Time | 33 minutes Measured in a controlled test environment. Specific test conditions are as follows: hovering in a windless laboratory environment, in photo mode (without photo taking operation during flight), and from 100% battery level until 0%. Results may vary depending on the environment, actual use, and firmware version. |
| Max Flight Distance | 18 km (with Intelligent Flight Battery and measured while flying at 43.2 kph in windless conditions) |
| Max Wind Speed Resistance | 10.7 m/s (Level 5) |
| Max Tilt Angle | 40° |
| Operating Temperature | -10° to 40° C (14° to 104° F) |



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| Global Navigation Satellite System | GPS + GLONASS + Galileo |
| Hovering Accuracy Range | Vertical: ± 0.1 m (with vision positioning) ± 0.5 m (with GNSS positioning) Horizontal: ± 0.3 m (with vision positioning) ± 1.5 m (with GNSS positioning) |
| Internal Storage | N/A |

Camera

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| Image Sensor | 1/1.3-inch CMOS, Effective Pixels: 12 MP |
| Lens | FOV: 82.1° Format Equivalent: 24 mm Aperture: f/1.7 Focus: 1 m to ∞ |
| ISO Range | Video: 100-3200 Photo: 100-3200 |
| Shutter Speed | Electronic Shutter: 2-1/8000 s |
| Max Image Size | 4000x3000 |
| Still Photography Modes | Single Shot: 12 MP Timed: 12 MP JPEG: 2/3/5/7/10/15/20/30/60 s JPEG + RAW: 5/7/10/15/20/30/60 s Automatic Exposure Bracketing (AEB): 12 MP, 3 frames at 2/3 EV step Panorama: Sphere, 180°, Wide Angle HDR: The Single Shot mode supports outputting HDR images. |
| Photo Format | JPEG/DNG (RAW) |
| Video Resolution | 4K: 3840x2160@24/25/30 fps 2.7K: 2720x1530@24/25/30/48/50/60 fps FHD: 1920x1080@24/25/30/48/50/60 fps HDR: Recording with the 24/25/30fps frame rate supports outputting HDR images. |
| Video Format | MP4 (H.264) |
| Max Video Bitrate | 100 Mbps |
| Supported File System | FAT32 (≤ 32 GB) exFAT (> 32 GB) |
| Color Mode | Normal |
| Digital Zoom | 4K: 2x 2.7K: 3x FHD: 4x |
| QuickShots Modes | Dronie, Helix, Rocket, Circle, and Boomerang |

Gimbal

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| Stabilization | 3-axis mechanical gimbal (tilt, roll, and pan) |
| Mechanical Range | Tilt: -135° to 80° Roll: -135° to 45° Pan: -30° to 30° |
| Controllable Range | Tilt: -90° to 60° Roll: -90° or 0° |



Max Control Speed (tilt) 100°/s

Angular Vibration Range $\pm 0.01^\circ$

Sensing

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| Sensing Type | Downward vision system |
| Downward | Precise Hovering Range: 0.5-10 m |
| Operating Environment | Downward: Diffuse reflective surfaces with a clear pattern and reflectivity > 20% (such as walls, trees, or people). Adequate lighting (lux > 15, normal indoor lighting conditions) |

Video Transmission

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| Video Transmission System | DJI O2 |
| Live View Quality | Remote Controller: 720p/30fps |
| Operating Frequency | 2.400-2.4835 GHz 5.725-5.850 GHz |
| Transmission Power (EIRP) | 2.400-2.4835 GHz: < 26 dBm (FCC)< 20 dBm (CE/SRRC/MIC) 5.725-5.850 GHz: < 26 dBm (FCC/SRRC)< 14 dBm (CE) |
| Max Transmission Distance (free of interference) | CE: 6 km Measured in an unobstructed outdoor environment free of interference. The above data shows the farthest communication range for one-way, non-return flights under each standard. During your flight, please pay attention to RTH 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. 3-6 km Low Interference: suburb/seaside, approx. 6-10 km Data tested under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual flight distance. |
| Max Download Speed | DJI O2: 5.5 MB/s (with DJI RC-N1 Remote Controller) 5.5 MB/s (with DJI RC) Wi-Fi 5: 25 MB/s* * 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 the SD card. Download speeds may vary depending on the actual conditions. |
| Lowest Latency | Approx. 200 ms Depending on the actual environment and mobile device. |
| Antenna | 2 antennas, 1T2R |

Battery

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| Capacity | Intelligent Flight Battery: 2453 mAh |
| Weight | Intelligent Flight Battery: Approx. 80.5 g |
| Nominal Voltage | 7.38 V |
| Max Charging Voltage | 8.5 V |
| Type | Li-ion |
| Energy | Intelligent Flight Battery: 18.1 Wh |



Charging Temperature

5° to 40° C (41° to 104° F)

Charging Time

Intelligent Flight Battery:
64 minutes (with the DJI 30W USB-C Charger and the battery mounted to the aircraft)
56 minutes (with the DJI 30W USB-C Charger and the battery inserted into the Two-Way Charging Hub)
* Sold separately and only in selected countries and regions.

Charger

Recommended Charger

DJI 30W USB-C Charger or other USB Power Delivery chargers (30 W)*
* When you charge the battery mounted to the aircraft or inserted into the Two-Way Charging Hub, the maximum charging power supported is 30 W.

Charging Hub

Input 5 V, 3 A
9 V, 3 A
12 V, 3 A

Output USB-A: Max Voltage: 5 V; Max Current: 2 A

Charging Type Three batteries being charged in sequence

Storage

Recommended microSD Cards
SanDisk Extreme 32GB V30 A1 microSDXC
SanDisk Extreme 64GB V30 A1 microSDXC
SanDisk Extreme 128GB V30 A2 microSDXC
SanDisk Extreme 256GB V30 A2 microSDXC
SanDisk Extreme Pro 32GB V30 A1 microSDXC
Kingston Canvas Go!Plus 64GB V30 A2 microSDXC
Kingston Canvas Go!Plus 256GB V30 A2 microSDXC
Kingston Canvas React Plus 64GB V30 A1 microSDXC
Kingston Canvas React Plus 128GB V30 A1 microSDXC
Samsung PRO Plus 256GB V30 A2 microSDXC