Clifton Cameras Product Specification

DJI Mini 3 With RC Controller

Aircraft

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): 148×90×62 mm (L×W×H) Unfolded (with propellers): 251×362×72 mm (L×W×H)
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)

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

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	4000×3000
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: 3840×2160@24/25/30 fps 2.7K: 2720×1530@24/25/30/48/50/60 fps FHD: 1920×1080@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: 2× 2.7K: 3× FHD: 4×
QuickShots Modes	Dronie, Helix, Rocket, Circle, and Boomerang

Gimbal

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	±0.01°

Sensing

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

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

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

DJI RC

Transmitter Power (EIRP)	2.400-2.4835 GHz: <20 dBm (CE) 5.725-5.850 GHz: <14 dBm (CE)
Storage Capacity	DJI RC's Storage capacity can be increased by using a microSD card. Users can store Images and videos on the card and export them to a computer or other devices
Max Battery Life	Approx. 4 hours
Operating Temperature	-10° to 40°C (14° to 104°F)