Clifton Cameras Product Specification

DJI Mini 3 Pro Drone

Specifications

Aircraft	Takeoff Weight	<249 g
Aircraft	Dimensions (L×W×H) **[1]**	Folded: 145×90×62 mm Unfolded: 171×245×62 mm Unfolded (with propellers): 251×362×70 mm
Aircraft	Diagonal Length	247 mm
Aircraft	Max Ascent Speed	5 m/s (S Mode) 3 m/s (N Mode) 2 m/s (C Mode)
Aircraft	Max Descent Speed	5 m/s (S Mode) 3 m/s (N Mode) 1.5 m/s (C Mode)
Aircraft	Max Speed (at sea level, no wind) **[2]**	16 m/s (S Mode) 10 m/s (N Mode) 6 m/s (C Mode)
Aircraft	Max Service Ceiling Above Sea Level **[3]**	4000 m
Aircraft	Max Flight Time	34 mins (with Intelligent Flight Battery and measured while flying at 21.6 kph in windless conditions)
Aircraft	Max Hovering Time	30 mins (with Intelligent Flight Battery, no wind)
Aircraft	Max Flight Distance	18 km (with Intelligent Flight Battery and measured while flying at 43.2 kph in windless conditions)
Aircraft	Max Wind Speed Resistance	10.7 m/s (Level 5)
Aircraft	Max Tilt Angle	Forward: 40°, Backward: 35° (S Mode) 25° (N Mode) 25° (C Mode)
Aircraft	Max Angular Velocity (by default)*	130°/s (S Mode) 75°/s (N Mode) 30°/s (C Mode) *Can be adjusted between up to 250°/s in the app

Aircraft	Operating Temperature	-10° to 40° C
Aircraft	Global Navigation Satellite System (GNSS)	GPS + Galileo + BeiDou
Aircraft	Operation Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Aircraft	Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)
Aircraft	Hovering Accuracy Range	Vertical: ±0.1 m (with vision positioning) ±0.5 m (with GPS positioning) Horizontal: ±0.3 m (with vision positioning) ±0.5 m (with high-precision positioning system)
Sensing System	Forward	Precision Measurement Range: 0.39m-25 m Effective Sensing Speed: Flight speed <10 m/s FOV: Horizontal 106°, Vertical 90°
Sensing System	Backward	Precision Measurement Range: 0.36m-23.4 m Effective Sensing Speed: Flight speed <10 m/s FOV: Horizontal 58°, Vertical 73°
Sensing System	Downward	Precision Measurement Range: 0.15m-9m Precise Hovering Range: 0.5m-12 m Vision Sensor Hovering Range: 0.5m-30 m Effective Sensing Speed: Flight speed <3 m/s FOV: Forward/Backward 104.8°, Left/Right 87.6°
Sensing System	Auxiliary Bottom Light	N/A
Sensing System	Operating Environment	Diffuse reflective surface with a clear pattern and reflectivity >20% (such as cement pavement) Adequate lighting (lux >15, e.g. normal exposure environment with indoor fluorescent lamp)
Gimbal	Mechanical Range	Tilt: -135° to 80° Roll: -135° to 45° Pan: -30° to 30°
Gimbal	Controllable Range	Tilt: -90° to 60°

Gimbal	Stabilisation	3-axis mechanical gimbal (tilt, roll, and pan)
Gimbal	Max Control Speed (tilt)	100°/s
Gimbal	Angular Vibration Range	±0.01°
Camera	Sensor	1/1.3-inch CMOS Effective Pixels: 48 MP
Camera	Lens	FOV: 82.1° Format Equivalent: 24 mm Aperture: f/1.7 Focus Range: 1 m to ∞
Camera	ISO Range	Video: 100-6400 (Auto) 100-6400 (Manual) Photo: 100-6400 (Auto) 100-6400 (Manual)
Camera	Shutter Speed	Electronic Shutter: 2-1/8000 s
Camera	Max Image Size	4:3: 8064×6048 (48 MP) 4032×3024 (12 MP) 16:9: 4032×2268 (12 MP)
Camera	Still Photography Modes	Single Shot Interval: JPEG: 2/3/5/7/10/15/20/30/60 s JPEG + RAW: 2/3/5/7/10/15/20/30/60 s Auto Exposure Bracketing (AEB): 3/5/7 bracketed frames at 2/3 EV Bias Panorama: Sphere, 180°, Wide-angle, and Vertical
Camera	Photo Format	JPEG/DNG (RAW)
Camera	Video Resolution	4K: 3840×2160@24/25/30/48/50/60fps 2.7K: 2720×1530@24/25/30/48/50/60fps FHD: 1920×1080@24/25/30/48/50/60fps Slow Motion: 1920×1080@120fps
Camera	Video Format	MP4/MOV (H.264/H.265)
Camera	Max Video Bitrate	150 Mbps
Camera	Zoom Range	4K: 2x 2.7K: 3x FHD: 4x
Camera	QuickShot Modes	Dronie, Helix, Rocket, Circle, Boomerang, and Asteroid
Camera	Color Profiles	Normal D-Cinelike

Camera	Supported File System	FAT32 (≤32 GB) exFAT (>32 GB)
Video Transmission	Video Transmission System	DJI O3
Video Transmission	Live View Quality	1080p/30fps
Video Transmission	Operation Frequency **[4]**	2.400-2.4835 GHz 5.725-5.850 GHz
Video Transmission	Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)
Video Transmission	Communication Bandwidth	1.4MHz/3MHz/10MHz/20MHz/40MHz
Video Transmission	Latency (depending on environmental conditions and mobile device)	Aircraft + Remote Controller: Approx. 120 ms
Video Transmission	Max Video Bitrate	Aircraft + Remote Controller: 18 Mbps
Video Transmission	Max Download Bitrate **[5]**	DJI O3: RC-N1 Remote Controller and DJI RC: 5.5 MB/s Wi-Fi 5: Max 30 MB/s
Video Transmission	Signal Transmission Ranges (FCC) **[6]**	Strong Interference (urban landscape): Approx. 1.5km-3 km Medium Interference (suburban landscape): Approx. 3km-7 km Low Interference (suburb/seaside): Approx. 7km-12 km
Video Transmission	Antennas	4 antennas, 1T2R
Video Transmission	Audio Transmission	N/A
Wi-Fi	Protocol	802.11 a/b/g/n/ac
Wi-Fi	Transmitter Power (EIRP)	2.400-2.4835 GHz: <19 dBm (FCC/CE/SRRC/MIC) 5.725-5.850 GHz: <20 dBm (FCC/SRRC), <14 dBm (CE)

Bluetooth	Protocol	Bluetooth 5.2
Bluetooth	Transmitter Power (EIRP)	2.400-2.4835 GHz: ＜8 dBm
Intelligent Flight Battery	Capacity	2453mAh
Intelligent Flight Battery	Weight	80.5g
Intelligent Flight Battery	Voltage	7.38V
Intelligent Flight Battery	Charging Voltage Limit	8.5V
Intelligent Flight Battery	Battery Type	Li-ion
Intelligent Flight Battery	Energy	18.1Wh
Intelligent Flight Battery	Max Charging Power	37W
Intelligent Flight Battery	Charging Time	64 mins (with DJI 30W USB-C charger)
Intelligent Flight Battery	Charging Temperature Range	5° to 40° C (41° to 104° F)
Intelligent Flight Battery	Recommended Charger	DJI 30W USB-C Charger or other USB Power Delivery chargers
Memory Cards	Supported Memory Cards	UHS-I Speed Class 3 or above is required. A list of recommended microSD cards can be found below.

Memory Cards	Recommended microSD Cards	SanDisk Extreme 64GB V30 A1 microSDXC SanDisk Extreme 128GB V30 A2 microSDXC SanDisk Extreme 256GB V30 A2 microSDXC SanDisk Extreme 512GB V30 A2 microSDXC SanDisk Extreme Pro 64GB V30 A2 microSDXC SanDisk Extreme Pro 256GB V30 A2 microSDXC SanDisk Extreme Pro 400GB V30 A2 microSDXC SanDisk High Endurance 64GB V30 microSDXC SanDisk High Endurance 256GB V30 microSDXC SanDisk Max Endurance 32GB V30 microSDHC SanDisk Max Endurance 128GB V30 microSDXC SanDisk Max Endurance 256GB V30 microSDXC Kingston Canvas Go! Plus 64GB V30 A2 microSDXC Kingston Canvas Go! Plus 256GB V30 A2 microSDXC Lexar High Endurance 64GB V30 microSDXC Lexar High Endurance 128GB V30 microSDXC Lexar 667x 64GB V30 A1 microSDXC Lexar 633x 256GB V30 A1 microSDXC Lexar 1066x 64GB V30 A2 microSDXC Lexar 1066x 128GB V30 A2 microSDXC Lexar 1066x 256GB V30 A2 microSDXC Samsung Pro Plus 128GB V30 A2 microSDXC Samsung EVO Plus 512GB microSDXC
DJI RC-N1 Remote Controller	Transmitter Power (EIRP)	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)
DJI RC-N1 Remote Controller	Max Supported Mobile Device Size	Length: 180 mm, Width: 86 mm, Height: 10 mm
DJI RC-N1 Remote Controller	Supported Port Types	Lightning, Micro-USB (Type-B), USB-C
DJI RC-N1 Remote Controller	Video Transmission System	DJI O3
DJI RC-N1 Remote Controller	Max Battery Time	6 hrs (without charging any mobile device) 4 hrs (when charging a mobile device)
DJI RC-N1 Remote Controller	Operating Temperature	-10° to 40° C (14° to 104° F)
DJI RC	Model	RM330
DJI RC	Video Transmission System	DJI O3
DJI RC	Transmitter Power (EIRP)	2.400-2.4835 GHz: <20 dBm (CE) 5.725-5.850 GHz: <14 dBm (CE)

DJI RC	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.
DJI RC	Video Output Port	N/A
DJI RC	Max Battery Life	Approx. 4 hours
DJI RC	Operating Temperature	-10° to 40° C (14° to 104° F)
DJI RC	Recommended microSD Cards	SanDisk Ultra A1 U1 16GB SanDisk Extreme U3 16GB SanDisk Ultra A1 U1 32GB SanDisk Extreme A1 U3 32GB Kingston A2 V30 U3 64GB SanDisk Extreme A2 V30 U3 64GB SanDisk Extreme Pro A2 V30 U3 64GB SanDisk High Endurance V30 U3 64GB Kingston A2 V30 U3 128GB SanDisk Extreme A2 V30 U3 128GB SanDisk Ultra A1 U1 200GB Kingston A2 V30 U3 256GB SanDisk Extreme A2 V30 U3 256GB SanDisk Extreme PRO A2 V30 U3 256GB SanDisk Extreme A2 V30 U3 512GB
Wi-Fi	Protocol	802.11 a/b/g/n
Wi-Fi	Transmitter Power (EIRP)	2.400-2.4835 GHz: <20 dBm (CE/SRRC/MIC) 5.150-5.250 GHz: <23 dBm (FCC/CE/SRRC/MIC) 5.725-5.850 GHz: <14 dBm (CE)
Bluetooth	Protocol	Bluetooth 4.2
Bluetooth	Transmitter Power (EIRP)	2.400-2.4835 GHz: <10 dBm
Charging Hub	Compatible DJI Charger	DJI 30W USB-C Charger or other USB Power Delivery chargers
Charging Hub	Compatible DJI Batteries	DJI Mini 3 Pro Intelligent Flight Battery
Charging Hub	Input	5V, 3A 9V, 3A 12V, 3A
Charging Hub	Output (USB)	Max Voltage: 5V, Max Current: 2A
Charging Hub	Charging Type	Three batteries being charged in sequence
App	Mobile Device App	DJI Fly
App	Required Operating System	iOS v11.0 or later Android v6.0 or later

1. The standard weight of the aircraft (including the Intelligent Flight Battery, propellers, and a microSD card). 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 rules 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.

2. The max flight speed is subject to local restrictions that may change. Please abide by local laws and regulations when flying.

3. Increase in aircraft weight can affect flight propulsion.

4. Due to local policy and regulation restrictions, the 5.8 GHz frequency band is currently banned in certain countries, including but not limited to Japan, Russia, Israel, Ukraine, and Kazakhstan. Please use the 2.4 GHz frequency band when operating in these locations. Always check local rules and regulations before use, as they may change over time.

5. Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz. With footage saved on the built-in SSD or the internal storage. Download speeds may vary depending on actual conditions.

6. Data is tested under FCC standards in unobstructed environments of typical interference. Only to serve as a reference and provides no guarantee as to the actual flight distance.

Max one-way communication distance of DJI Mini 3 Pro in countries/regions of different standards:

FCC: United States, Australia, Canada, Hong Kong, Taiwan, Chile, Colombia, Puerto Rico, and other regions. Max transmission range: 12 km

SRRC: Mainland China. Max transmission range: 8 km

CE: UK, Russia, France, Germany, Portugal, Spain, Switzerland, Macau, New Zealand, UAE, and other regions. Max transmission range: 8 km

MIC: Japan. Max transmission distance: 8 km

5. Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz. With footage saved on the built-in SSD or the