

## Clifton Cameras Product Specification

### DJI Flip Full Spec

Aircraft	Takeoff Weight	< 249 g <sup>Standard aircraft weight (including the Intelligent Flight Battery and a microSD card). Actual product weight may vary due to differences in batch materials and other factors. Training or examination is not required for flying this product in most countries and regions. Always check local laws and regulations before use. With DJI Cellular Dongle 2 and its Installation Kit, the aircraft will weigh more than 249 g (approx. 295 g). Always check and strictly abide by local laws and regulations before flying.</sup>
Aircraft	Dimensions	Folded: 136×62×165 mm (L×W×H) Unfolded: 233×280×79 mm (L×W×H)
Aircraft	Max Ascent Speed	5 m/s (Sport mode) 5 m/s (Normal mode) 2 m/s (Cine mode)
Aircraft	Max Descent Speed	5 m/s (Sport mode) 5 m/s (Normal mode) 1.5 m/s (Cine mode)
Aircraft	Max Horizontal Speed	At sea level, in windless conditions: 12 m/s* (Sport mode) 12 m/s (tracking status)  At sea level, with 4 m/s tailwind, while flying in the same direction as the wind: 16 m/s* (Sport mode) 12 m/s (tracking status)  <sup>* Measured in a wind tunnel test environment with the aircraft taking off from an altitude of 0 m and ascending vertically by 1.5 m in Sport mode. Data is for reference only. Always pay attention to reminders on the camera view during your flight.</sup>
Aircraft	Max Takeoff Altitude	3000 m <sup>In a windless environment, a fully charged aircraft can take off from an altitude of 3000 m, ascend vertically by 500 m, and fly in Sport mode until the battery level drops to 20%. Data is for reference only. Always pay attention to reminders on the camera view during your flight.</sup>
Aircraft	Max Flight Time	31 minutes <sup>Measured when flying forward at a constant speed of 6 m/s in a windless environment 20 m above sea level, in photo mode, and from 100% battery level until 0%. Actual experience may vary depending on the environment, usage, and firmware version.</sup>
Aircraft	Max Hovering Time	28 minutes  <sup>Measured when hovering in a windless environment 20 m above sea level, in photo mode, and from 100% battery level until 0%. Actual experience may vary depending on the environment, usage, and firmware version.</sup>
Aircraft	Max Flight Distance	14 km <sup>Measured when flying forward at a constant speed of 9 m/s in a windless environment 20 m above sea level, in photo mode, and from 100% battery level until 0%. Actual experience may vary depending on the environment, usage, and firmware version.</sup>

Aircraft	Max Wind Speed Resistance	10.7 m/s (Level 5)
Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)
Aircraft	Global Navigation Satellite System	GPS + Galileo + BeiDou
Aircraft	Internal Storage	2 GB
Aircraft	Class	C0 (EU)
Camera	Image Sensor	1/1.3-inch image sensor
Camera	Lens	FOV: 82.1° Format Equivalent: 24 mm Aperture: f/1.7 Focus: 1 m to ∞
Camera	ISO Range	Video Normal/Slow Motion: 100-6400 (Normal) 100-1600 (D-Log M) Photo 12MP Photo: 100-6400 48MP Photo: 100-3200
Camera	Shutter Speed	12MP Photo: 1/16000-2 s (2.5-8 s for simulated long exposure) 48MP Photo: 1/8000-2 s
Camera	Max Image Size	48MP Photo 8064×6048
Camera	Still Photography Modes	Single Shot: 12 MP and 48 MP Burst Shooting: 12 MP, 3/5/7 frames Automatic Exposure Bracketing (AEB): 12 MP, 3/5/7 frames at 2/3 EV step Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s
Camera	Photo Format	JPEG DNG/RAW
Camera	Video Resolution	4K: 3840×2160@24/25/30/48/50/60fps FHD: 1920×1080@24/25/30/48/50/60/100fps 2.7K Vertical Shooting: 1512×2688@24/25/30fps FHD Vertical Shooting: 1080×1920@24/25/30fps
Camera	Video Format	MP4
Camera	Max Video Bitrate	150Mbps
Camera	Supported File System	exFAT
Camera	Color	Normal 

	Mode	D-Log M
Camera	Digital Zoom	4K: 3x FHD: 4x 2.7K Vertical Shooting: 3x FHD Vertical Shooting: 4x 12 MP Photo: 3x
Gimbal	Stabilization	3-axis mechanical gimbal (tilt, roll, pan)
Gimbal	Mechanical Range	Tilt Axis: -130° to +63° Roll Axis: -47° to +47° Pan: -30° to +30°
Gimbal	Controllable Range	Tilt Axis: -90° to +35°
Gimbal	Max Control Speed (tilt)	100°/s
Gimbal	Angular Vibration Range	±0.01°
Sensing	Sensing Type	Downward: one visual sensor and an infrared sensor, Forward: 3D ToF sensor
Sensing	Forward	3D ToF Sensor Measurement Range: 0.3-8 m (reflectivity > 10%) FOV: Horizontal 60°, Vertical 60°
Sensing	Downward	Measurement Range: 0.3-8 m (reflectivity > 10%) Precise Hovering Range: 0.5-10 m FOV: Horizontal 60°, Vertical 60°
Sensing	Operating Environment	Downward: Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g. walls, trees, people), and adequate lighting (lux > 15)
Video Transmission	Video Transmission System	O4
Video Transmission	Live View Quality	Remote Controller: Up to 1080p/60fps
Video Transmission	Operating Frequency	2.4000-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz <sup>Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.</sup>
Video Transmission	Transmitter Power (EIRP)	2.4 GHz:  <30 dBm (FCC) <20 dBm (CE/SRRC/MIC)  5.1 GHz:  <23 dBm (CE)  5.8 GHz:  <33 dBm (FCC) <14 dBm (CE) <30 dBm (SRRC)
Video Transmission	Max Transmission	FCC: 13 km CE: 8 km SRRC: 8 km



	Distance (unobstructed, free of interference)	MIC: 8 km <sup>Measured in an open, outdoor environment without interference or obstructions and represents the farthest communication range under each standard. The actual max transmission distance during flight is limited by the drone's max flight distance. Always pay attention to RTH reminders on the camera view during your flight.</sup>
Video Transmission	Max Transmission Distance (unobstructed, with interference)	Strong Interference (urban landscape): Approx. 1-2.5 km Medium Interference (suburban landscape): Approx. 2.5-7 km Low Interference (suburb/seaside): Approx. 7-13 km <sup>Measured under FCC standard in unobstructed environments with typical interference. Used for reference purposes only and provides no guarantee for actual transmission distance.</sup>
Video Transmission	Max Transmission Distance (obstructed, with interference)	Low Interference and Obstructed by Buildings: Approx. 0-0.5 km Low Interference and Obstructed by Trees: Approx. 0.5-2 km <sup>Measured under FCC standard in obstructed environments with typical low interference. Used for reference purposes only and provides no guarantee for actual transmission distance.</sup>
Video Transmission	Max Download Speed	O4: DJI RC-N3 Remote Controller: 10 MB/s DJI RC: 10 MB/s Wi-Fi 5: 30 MB/s <sup>Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz. Download speeds may vary depending on the actual conditions.</sup>
Video Transmission	Lowest Latency	Approx. 120 ms <sup>Depending on the actual environment and mobile device.</sup>
Video Transmission	Antenna	4 antennas (2.4 GHz: 1T2R; 5.2/5.8 GHz: 2T2R)
Wi-Fi	Protocol	802.11a/b/g/n/ac
Wi-Fi	Operating Frequency	2.4000 GHz-2.4835 GHz 5.7250 GHz-5.850 GHz <sup>Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.</sup>
Wi-Fi	Transmitter Power (EIRP)	2.4 GHz : <20 dBm (FCC/CE/SRRC/MIC)   5.8 GHz : <20 dBm (FCC/SRRC)  <14 dBm (CE)  
Wi-Fi	Effective Operating Range	50 m <sup>Measured in an open environment free of interference. Actual transmission distance may vary by the operating environment.</sup>
Bluetooth	Protocol	Bluetooth 5.0
Bluetooth	Operating Frequency	2.4000-2.4835 GHz <sup>Operating frequency allowed varies among countries and regions. Refer to local laws and regulations for more information.</sup>
Bluetooth	Transmitter Power (EIRP)	< 10 dBm

Battery	Capacity	3110 mAh
Battery	Weight	Approx. 83.5 g
Battery	Nominal Voltage	7.16 V
Battery	Battery Type	Li-ion
Battery	Chemical System	LiNiMnCoO <sub>2</sub>
Battery	Energy	22.3 Wh
Battery	Charging Temperature	5° to 40° C (41° to 104° F)
Battery	Charging Time	<p>When Charging via Aircraft (30W max charging power): &lt;br&gt;From 0% to 100%: Approx. 70 minutes*&lt;br&gt;&lt;br&gt;</p> <p>When Using the Battery Charging Hub for Charging One Battery (48W max charging power): &lt;br&gt;From 0% to 100%: Approx. 45 minutes**&lt;br&gt;&lt;br&gt;</p> <p>When Using the Battery Charging Hub for Parallel Charging Two Batteries (65W max charging power): &lt;br&gt;Two batteries from 0% to 100%: Approx. 70 minutes***&lt;br&gt;&lt;br&gt;</p> <p>&lt;sup&gt;*&lt;/sup&gt; Using the DJI 30W USB-C Charger or a charger that supports the PD protocol with a power output higher than 30 W.&lt;br&gt;</p> <p>&lt;sup&gt;**&lt;/sup&gt; Using the DJI 65W USB-C Charger or a charger that supports the PD protocol with a power output higher than 48 W. &lt;br&gt;</p> <p>&lt;sup&gt;***&lt;/sup&gt; Using the DJI 65W USB-C Charger or a charger that supports the PD protocol with a power output higher than 65 W.&lt;/sup&gt;</p>
Battery Charging Hub	Input	5 V, 4.3 A 9 V, 4.3 A 12 V, 4.3 A 15 V, 4.3 A
Battery Charging Hub	Output (power accumulation)	Max 45 W
Battery Charging Hub	Output (charging)	15 V, 2 A 12 V, 2 A 9 V, 3 A 5 V, 3 A
Battery Charging Hub	Rated Power	65 W
Battery Charging Hub	Charging Type	2 batteries charged simultaneously or in sequence
Battery Charging Hub	Compatibility	DJI Flip Intelligent Flight Battery
Charger	Recommended Charger	<p>DJI 65W Portable Charger*&lt;br&gt;USB Power Delivery chargers&lt;br&gt;&lt;sup&gt;*&lt;/sup&gt; When you charge the battery mounted to the aircraft, the maximum charging power supported is 30 W.&lt;/sup&gt;&lt;br&gt;&lt;sup&gt;*&lt;/sup&gt; When you charge the battery inserted into the Parallel Charging Hub, the maximum charging power supported is 65 W.&lt;/sup&gt;</p>
Storage	Recommended	Kingston CANVAS Go! Plus 64GB U3 A2 V30 microSDXC 



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	Recommended microSD Cards	Kingston CANVAS Go! Plus 128GB U3 A2 V30 microSDXC Kingston CANVAS Go! Plus 256GB U3 A2 V30 microSDXC Kingston CANVAS Go! Plus 512GB U3 A2 V30 microSDXC Lexar Professional 1066x 64GB U3 A2 V30 microSDXC Lexar Professional 1066x 128GB U3 A2 V30 microSDXC Lexar Professional 1066x 256GB U3 A2 V30 microSDXC Lexar Professional 1066x 512GB U3 A2 V30 microSDXC
DJI RC-N3 Remote Controller	Max Operating Time	Without Charging Any Mobile Device: 3.5 hours When Charging a Mobile Device: 1.5 hours
DJI RC-N3 Remote Controller	Operating Temperature	-10° to 40° C (14° to 104° F)
DJI RC-N3 Remote Controller	Max Supported Mobile Device Size	180x86x10 mm (LxWxH)
App	Mobile Device App	DJI Fly
App	Required Operating System	iOS 13.0 or later Android 7.0 or later