

Clifton Cameras Product Specification

DJI FPV Drone Full Spec

group_title	item_title	spec_key	spec_value
	Camera	Sensor	1/2.3" CMOS Effect pixels: 12 million
	Camera	Lens	FOV: 150° 35mm Format Equivalent: 14.66 mm Aperture: f/2.8 Focus Mode: Fixed Focus Focus Range: 0.6 m to ∞
	Camera	ISO	100-12800
	Camera	Shutter Speed	1/50-1/8000 s
	Camera	Still Photography Modes	Single shot
	Camera	Max Image Size	3840×2160
	Camera	Photo Format	JPEG
	Camera	Video Resolution	4K: 3840×2160 at 50/60fps FHD: 1920×1080 at 50/60/100/120fps
	Camera	Video Formats	MP4/MOV (H.264/MPEG-4 AVC, H.265/HEVC)
	Camera	Max Video Bitrate	120 Mbps
	Camera	Color Profile	Standard, D-Cineline
	Camera	RockSteady EIS	Available
	Camera	Distortion Correction	Available
	Camera	Supported File Formats	exFAT (recommended) > FAT32
	Gimbal	Mechanical Range	Tilt: -65° to 70°
	Gimbal	Controllable Range	Tilt: -50° to 58°
	Gimbal	Stabilization	Single-axis (tilt), electronic roll axis

	Gimbal	Max Control Speed	60°/s
	Gimbal	Angular Vibration Range	±0.01° (N mode)
	Gimbal	Electronic Roll Axis	Available (can stabilize footage when the aircraft is tilted at angles of up to 10°)
	Aircraft	Takeoff Weight	Approx. 795 g
	Aircraft	Dimensions	255x312x127 mm (with propellers) 178x232x127 mm (without propellers)
	Aircraft	Diagonal Distance	245 mm
	Aircraft	Max Ascent Speed	M mode: No limit S mode: 15 m/s N mode: 8 m/s
	Aircraft	Max Descent Speed	M mode: No limit S mode: 10 m/s N mode: 5 m/s
	Aircraft	Max Speed	140 kph; M mode: 39 m/s (27 m/s in Mainland China) S mode: 27 m/s N mode: 15 m/s
	Aircraft	Max Acceleration	0-100 kph: 2 s (in ideal conditions while flying in M mode)
	Aircraft	Max Service Ceiling Above Sea Level	6,000 m
	Aircraft	Max Flight Time	Approx. 20 mins (measured while flying at 40 kph in windless conditions)
	Aircraft	Max Hover Time	Approx. 16 mins (measured when flying in windless conditions)
	Aircraft	Max Flight Distance	16.8 km (measured while flying in windless conditions)
	Aircraft	Max Wind Speed Resistance	39-49 kph (25-31 mph)
	Aircraft	Operating Temperature	-10° to 40° C (14° to 104° F)

	Aircraft	Transmitter Power (EIRP)	2.400-2.4835 GHz FCC: ≤ 31.5dBm CE: ≤ 20 dBm SRRC: ≤ 20 dBm MIC: ≤ 20 dBm 5.725-5.850 Ghz FCC: ≤ 31.5 dBm CE: ≤ 14 dBm SRRC: ≤ 25.5 dBm
	Aircraft	Number of Antennas	Four
	Aircraft	GNSS	GPS+GLONASS+ GALILEO
	Aircraft	Hovering Accuracy Range	Vertical: ±0.1 m (with Vision Positioning) ±0.5 m (with GPS positioning) Horizontal: ±0.3 m (with Vision Positioning) ±1.5 m (with GPS positioning)
	Aircraft	Supported SD Cards	microSD (up to 256 GB)
	Aircraft	Internal Storage	N/A
	Sensing System	Forward	Precision Measurement Range: 0.5-18 m Obstacle Sensing: Available in N mode only FOV: 56° (horizontal), 71° (vertical)
	Sensing System	Downward (dual vision sensors + TOF)	TOF Effective Sensing Height: 10 m Hovering Range: 0.5-15 m Vision Sensor Hovering Range: 0.5-30 m

	Sensing System	Downward Auxillary Light	Single LED
	Sensing System	Operating Environment	Refers to non-reflective, discernible surfaces Diffuse reflectivity >20% (e.g. walls, trees, people) Adequate lighting conditions (lux >15 in normal indoor lighting conditions)
	Charger	Input	100-240 V, 50/60 Hz, 1.8 A
	Charger	Output	Battery charging interface: 25.2 V \pm 0.1 V 3.57 A \pm 0.1 A (high current) 1 A \pm 0.2 A (low current) USB Port: 5V/2A (x2)
	Charger	Rated Power	90 W
	Intelligent Flight Battery	Battery Capacity	2000 mAh
	Intelligent Flight Battery	Voltage	22.2 V
	Intelligent Flight Battery	Max Charging Voltage	25.2 V
	Intelligent Flight Battery	Battery Type	LiPo 6S
	Intelligent Flight Battery	Energy	44.4 Wh@0.5C
	Intelligent Flight Battery	Discharge Rate	Standard: 10C
	Intelligent Flight Battery	Weight	295 g
	Intelligent Flight Battery	Charging Temperature	5° to 40° C (41° to 104° F)
	Intelligent Flight Battery	Max Charging Power	90 W
	Video Transmission	Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
	Video Transmission	Communication Bandwidth	40 MHz (Max.)

	Video Transmission	Live View Mode	Low-Latency Mode: 810p/120fps ≤ 28ms High-Quality Mode: 810p/60fps ≤ 40ms
	Video Transmission	Max Video Bitrate	50 Mbps
	Video Transmission	Transmission Range	10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)
	Video Transmission	Audio Transmission Support	Yes
	DJI FPV Goggles V2	Weight	Approx. 420 g (headband and antennas included)
	DJI FPV Goggles V2	Dimensions	184×122×110 mm (antennas excluded) 202×126×110 mm (antennas included)
	DJI FPV Goggles V2	Screen Size	2-inches (x2)
	DJI FPV Goggles V2	Screen Refresh Rate	144 Hz
	DJI FPV Goggles V2	Communication Frequency ^[1]	2.400-2.4835 GHz 5.725-5.850 GHz
	DJI FPV Goggles V2	Transmitter Power (EIRP)	2.400-2.4835 GHz FCC: ≤ 28.5 dBm CE: ≤ 20 dBm SRRC: ≤ 20 dBm MIC: ≤ 20 dBm 5.725-5.850 GHz FCC: ≤ 31.5 dBm CE: ≤ 14 dBm SRRC: ≤ 19 dBm
	DJI FPV Goggles V2	Communication Bandwidth	40 MHz (Max.)
	DJI FPV Goggles V2	Live View Mode	Low-Latency Mode: 810p/120fps ≤ 28ms* High-Quality Mode: 810p/60fps ≤ 40ms* * A 150° FOV is available when shooting at 50 or 100 fps. For other frame rates, the

			FOV will be 142°.
	DJI FPV Goggles V2	Max Video Bitrate	50 Mbps
	DJI FPV Goggles V2	Transmission Range ^[2]	10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)
	DJI FPV Goggles V2	Video Format	MP4 (Video format: H.264)
	DJI FPV Goggles V2	Supported Video and Audio Playback Formats	MP4, MOV, MKV (Video format: H.264; Audio format: AAC-LC, AAC-HE, AC-3, MP3)
	DJI FPV Goggles V2	Operating Temperature	0° to 40° C (32° to 104° F)
	DJI FPV Goggles V2	Power Input	Dedicated DJI Goggles batteries or other 11.1.-25.2 V batteries.
	DJI FPV Goggles V2	FOV	FOV: 30° to 54°; Image size: 50-100%
	DJI FPV Goggles V2	Interpupillary Distance Range	58-70 mm
	DJI FPV Goggles V2	Supported microSD Cards	microSD (up to 256 GB)
	DJI FPV Goggles Battery	Capacity	1800 mAh
	DJI FPV Goggles Battery	Voltage	9 V (Max.)
	DJI FPV Goggles Battery	Type	LiPo 2S
	DJI FPV Goggles Battery	Energy	18 Wh
	DJI FPV Goggles Battery	Charging Temperature	0° to 45° C
	DJI FPV Goggles Battery	Max Charging Power	10 W
	DJI FPV Goggles Battery	Battery Life	Approx. 110 minutes (measured in an environment of 25°C at maximum brightness level)
	DJI FPV Remote Controller	Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
	DJI FPV Remote Controller	Transmitter Power (EIRP)	2.400-2.4835 GHz FCC: ≤ 28.5 dBm CE: ≤ 20 dBm SRRC: ≤ 20 dBm MIC: ≤ 20 dBm

			5.725-5.850 GHz FCC: ≤ 31.5 dBm CE: ≤ 14 dBm SRRC: ≤ 19 dBm
	DJI FPV Remote Controller	Max. Transmission Distance	10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)
	DJI FPV Remote Controller	Gimbal Dimensions	190x140x51 mm
	DJI FPV Remote Controller	Weight	346 g
	DJI FPV Remote Controller	Battery Life	Approx. 9 hours
	DJI FPV Remote Controller	Charging Time	2.5 hours
	Motion Controller	Model	FC7BMC
	Motion Controller	Weight	167 g
	Motion Controller	Operating Frequency Range	2.400-2.4835 GHz; 5.725-5.850 GHz
	Motion Controller	Max Transmission Distance (unobstructed, free of interference)	10 km (FCC), 6 km (CE/SRRC/MIC)
	Motion Controller	Transmitter Power (EIRP)	2.4 GHz: ≤28.5 dBm (FCC), ≤20 dBm (CE/SRRC/MIC) 5.8 GHz: ≤31.5 dBm (FCC), ≤19 dBm (SRRC), ≤14 dBm (CE)
	Motion Controller	Operating Temperature Range	-10° to 40° C (14° to 104° F)
	Motion Controller	Battery Life	300 minutes
	microSD card	Supported microSD cards	Max 256 GB UHS-I Speed Grade 3
	microSD card	Recommended microSD cards	SanDisk High Endurance U3 V30 64GB microSDXC SanDisk Extreme PRO U3 V30 A2 64GB microSDXC SanDisk Extreme U3 V30 A2 64GB microSDXC SanDisk Extreme U3 V30 A2 128GB microSDXC SanDisk Extreme U3 V30 A2 256GB microSDXC Lexar 667x V30

			<p>128GB microSDXC
 Lexar High Endurance 128GB U3 V30 microSDXC
 Samsung EVO U3 (Yellow) 64GB microSDXC
 Samsung EVO Plus U3 (Red) 64GB microSDXC
 Samsung EVO Plus U3 256GB microSDXC
 Netac 256GB U3 A1 microSDXC</p>
	Footnotes	Footnotes	<p>1. 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.

</p> <p>2. Maximum flight range specification is a proxy for radio link strength and resilience, not aircraft battery capability. It only refers to the maximum, one-way flight distance. Data was measured in an open environment without</p>

			<p>interference. Please pay attention to the return prompt on the DJI Fly app during actual flight. Refer to the following applicable standard in different countries and regions:
FCC: United States, Australia, Canada, Hong Kong, Taiwan, Chile, Colombia, Puerto Rico, and other regions;
SRRC: Mainland China;
CE: UK, Russia, France, Germany, Portugal, Spain, Switzerland, Macau, New Zealand, UAE, and other regions;
MIC: Japan.</p>
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