

Clifton Cameras Product Specification

DJI Avata Fly Smart Combo

Specifications

Camera

Sensor:	1/1.7-inch CMOS
Effective Pixels:	48 MP
Lens	
FOV:	155°
Equivalent Focal Length:	12.6 mm
Focal Length:	2.34 mm
Aperture:	f/2.8
Focus Mode:	FF
Focus Range:	0.6 m to ∞
ISO Range:	100-6400 (Auto) 100-25600 (Manual)"
Shutter Speed:	Video: 1/8000-1/50 s
Photo:	1/8000-1/50 s
Still Photography Mode:	Single Shot
Max Image Size:	4000×3000
Photo Format:	JPEG
Video Resolution	
With DJI Goggles 2:	4K@50/60fps 2.7K@50/60/100fps 1080p@50/60/100fps
With DJI FPV Goggles V2:	4K@50/60fps 2.7K@50/60/100/120fps 1080p@50/60/100/120fps



Video Format:	MP4
Max Video Bitrate:	150 Mbps
Color Mode:	Standard D-Cinelike
EIS:	Supports RockSteady and HorizonSteady Can be disabled
Distortion Correction:	Supports Normal Mode, Wide Mode, and Ultra Wide Mode
Supported File System:	exFAT (recommended) FAT32

Gimbal

Mechanical Range:	Tilt: -95° to 75°
Controllable Range:	Tilt: -80° to +65°
Stabilisation:	Single-Axis (tilt)
Max Control Speed:	60°/s
Angular Vibration Range:	±0.01°
Electronic Roll Axis:	Real-time screen correction is unavailable during recording, but can be applied to the footage recorded on the drone.

Aircraft

Model:	QF2W4K
Takeoff Weight:	Approx. 410 g
Dimensions (L×W×H):	180×180×80 mm
Diagonal Distance:	120 mm
Max Ascent Speed:	6 m/s (Normal Mode, Sport Mode)
Max Descent Speed:	6 m/s (Normal Mode, Sport Mode)
Max Speed:	8 m/s (Normal Mode) 14 m/s (Sport Mode) 27 m/s (Manual Mode)
Maximum Takeoff Altitude:	5000 m
Max Hover Time:	Approx. 18 mins
Max Flight Distance:	11.6 km



Max Wind Speed Resistance: 10.7 m/s (Level 5)

Operating Temperature Range: -10° to 40° C (14° to 104° F)

Transmission Power (EIRP): FCC: < 33 dBm

CE: < 14 dBm

SRRC: < 30 dBm

Antennas: Dual Antennas, 2T2R

GNSS: GPS + Galileo + BeiDou

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)"

Supported SD Cards: microSD (up to 256 GB)

Recommended microSD Cards: SanDisk Extreme U3 V30 A1 32GB microSDXC

SanDisk Extreme Pro U3 V30 A1 32GB microSDXC

Kingston Canvas Go!Plus U3 V30 A2 64GB microSDXC

Kingston Canvas React Plus U3 V90 A1 64GB microSDXC

Kingston Canvas React Plus U3 V90 A1 128GB microSDXC

Kingston Canvas React Plus U3 V90 A1 256GB microSDXC

Samsung PRO Plus V30 U3 V30 A2 256GB microSDXC"

Internal Storage: 20 GB

Sensing System

Downward (Binocular Vision and ToF)

ToF Effective Measurement Height: 10 m

Precise Hovering Range: 0.5-10 m

Vision Sensor Hovering Range: 0.5-20 m

Operating Environment: Diffuse reflective surfaces with a clear pattern > 20% (such as walls, trees, or people)

Adequate lighting (lux > 15, normal indoor lighting conditions)

Intelligent Flight Battery



Battery Capacity:	2420 mAh
Voltage:	14.76 V
Charging Voltage Limit:	17 V
Type:	Li-ion
Chemical System:	LiNiMnCoO2
Energy:	35.71 Wh@0.5C
Discharge Rate:	Typical: 7C
Weight:	Approx. 162 g
Charging Temperature Range:	5° to 40° C (41° to 104° F)

Video Transmission

Communication Frequency:	2.400-2.4835 GHz (RX only) 5.725-5.850 GHz (RX and TX)
Communication Bandwidth:	Max 40 MHz
Live View Quality and Latency	
With DJI FPV Goggles V2:	810p/120fps Video Transmission Quality: The video transmission latency is lower than 28 ms. 810p/60fps Video Transmission Quality: The video transmission latency is lower than 40 ms.
With DJI Goggles 2:	1080p/100fps Video Transmission Quality: The video transmission latency is as low as 30 ms. 1080p/60fps Video Transmission Quality: The video transmission latency is as low as 40 ms.
Max Video Transmission Bitrate:	50 Mbps
Max Video Transmission Range:	10 km (FCC), 2 km (CE), 6 km (SRRC)
Audio Transmission:	N/A

Other

Waterproof:	No
Auxiliary light:	No
Supports satellite navigation systems:	Yes, it supports GPS, Galileo, and BeiDou.
Built-in storage:	20GB
Supports audio recording:	No



DJI FPV Goggles V2

Model:	FGDB28
Weight:	Approx. 420 g (headband and antennas included)
Supported Video and Audio Playback Formats:	MP4, MOV, MKV (video coding format: H.264; audio formats: AAC-LC, AAC-HE, AC-3, MP3)
Operating Temperature Range:	0° to 40° C (32° to 104° F)
Video Recording Format:	MOV (video coding format: H.264)
FOV:	30° to 54°, adjustable
Image Size:	50% to 100%
Communication Frequency:	2.400-2.4835 GHz 5.725-5.850 GHz
Max Video Transmission Bitrate:	50 Mbps
Dimensions (L×W×H):	Without antennas: 184×122×110 mm With antennas: 202×126×110 mm
Transmission Power (EIRP):	2.400-2.4835 GHz FCC: ≤ 28.5 dBm CE: ≤ 20 dBm SRRC: ≤ 20 dBm 5.725-5.850 GHz FCC: ≤ 31.5 dBm CE: ≤ 14 dBm SRRC: ≤ 19 dBm
Screen Size (single screen):	2-inch
Power Input:	Dedicated DJI Goggles batteries
Supported SD Cards:	microSD (up to 256 GB)
Communication Bandwidth:	Max 40 MHz
Interpupillary Distance Range:	58-70 mm
Refresh Rate:	144 Hz
Screen Resolution:	1440×810

DJI FPV Goggles V2 Battery



Weight:	Approx. 119 g
Dimensions (LxWxH):	73.04x40.96x26 mm
Capacity:	1800 mAh
Voltage:	Max 9 V
Chemical System:	LiNiMnCoO ₂
Type:	Li-Po 2S
Energy:	18 Wh
Charging Temperature Range:	0° to 45° C (32° to 113° F)
Max Charging Power:	10 W
Operating Time:	Approx. 110 mins

DJI Motion Controller

Model:	FC7BMC
Weight:	Approx. 167 g
Communication Frequency:	2.400-2.4835 GHz 5.725-5.850 GHz
Transmission Power (EIRP):	2.4 GHz: ≤ 28.5 dBm (FCC), ≤ 20 dBm (CE/SRRC) 5.8 GHz: ≤ 31.5 dBm (FCC), ≤ 19 dBm (SRRC), ≤ 14 dBm (CE)
Operating Temperature Range:	-10° to 40° C (14° to 104° F)
Operating Time:	Approx. 5 hours