

Appendix

Specifications

DJI Avata

Aircraft	
Model	QF2W4K
Takeoff Weight	Approx. 410 g
Dimensions (L×W×H)	180×80×80 mm
Diagonal Distance	120 mm
Max Ascent Speed	6 m/s (Normal/Sport mode)
Max Descent Speed	6 m/s (Normal/Sport mode)
Max Horizontal Speed	8 m/s (Normal mode)
(near sea level, no wind)	14 m/s (Sport mode)
	27 m/s (Manual mode)
Max Service Ceiling Above Sea Level	5000 m
Max Hover Time	Approx. 18 mins
Max Flight Distance	11.6 km
Max Wind Speed Resistance	10.7 m/s
Operating Temperature	-10° to 40° C (14° to 104° F)
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)
Antennas	Dual Antennas, 2T2R
Internal Storage	20 GB
Transmission	
Operating Frequency	2.400-2.4835 GHz (Rx) 5.725-5.850 GHz (Tx/Rx)
Transmitter Power (EIRP)	5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <30 dBm (SRRC)
Communication Bandwidth	Max 40 MHz
Live View Modes and Latency	With DJI Goggles 2
	1080p/100fps: The lowest transmission latency is 30 ms
	1080p/60fps: The lowest transmission latency is 40 ms
	With DJI FPV Goggles V2
	810p/120fps: The lowest transmission latency is lower 28 ms
	810p/60fps: The lowest transmission latency is lower than 40 ms
Max Video Bitrate	50 Mbps
Max Transmission Range	10 km (FCC), 2 km (CE), 6 km (SRRC)
Audio Transmission	No
Gimbal	
Mechanical Range	Tilt: -95° to +75°
Controllable Rotating Range	Tilt: -80° to +65°
Stabilization	Single-axis (tilt)
Max Control Speed	60°/s
Angular vibration range	±0.01° (Normal mode)
Electronic Roll Axis	Live view correction not supported, supports video correction

Sensing System	
Downward Vision System	Infrared Sensor Measurement Range: 10 m Precision Measurement Range: 0.5-10 m Effective Measurement Range: 0.5-20 m
Operating Environment	Non-reflective, discernible surfaces with diffuse reflectivity of >20% Adequate lighting of lux >15
Camera	
Image Sensor	1/1.7" CMOS, Effective Pixels: 48 MP
Lens	FOV: 155° Equivalent Focal Length: 12.6 mm Actual Focal Length: 2.34 mm Aperture: f/2.8 Focus Mode: Fixed focus Focus Range: 0.6 m to ∞
ISO Range	100-6400 (auto) 100-25600 (manual)
Shutter speed	1/8000-1/50 s (photo) 1/8000-1/50 s (video)
Still Photography Modes	Single shot
Max Photo Size	4000×3000
Photo Format	JPEG
Video Resolution	Used with DJI Goggles 2: 4K@50/60fps 2.7K@50/60/100fps 1080p@50/60/100fps Used 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 Profiles	Standard, D-Cinelike
RockSteady EIS	Supported (Off, RockSteady, HorizonSteady)
Distortion Correction	Supported (Standard, Wide-Angle, Super Wide Angle)
Supported File System	exFAT (recommend) FAT32
Intelligent Flight Battery	
Capacity	2420 mAh
Standard Voltage	14.76 V
Max Charging Voltage	17 V
Battery Type	Li-ion
Chemical System	LiNiMnCoO2
Energy	35.71 Wh@0.5C
Discharge Rate	7C (typical)
Weight	Approx. 162 g
Charging Temperature	5° to 40° C (41° to 104° F)

SD Cards	
Supported microSD Cards	microSD card, UHS-I Speed Grade 3
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



- DJI Avata dissipates heat by using the airflow of the propellers to prevent the aircraft from overheating. When the aircraft is in standby mode for a long time, the temperature may rise. In this situation, the built-in temperature control system can detect the current temperature and will power off the aircraft automatically to prevent overheating. The general standby time periods of the aircraft in the stationary state are as follows. If these times are exceeded, the aircraft may automatically power off to prevent overheating (tested in an indoor environment with an ambient temperature of 25°C).
 - a. When in standby mode on the ground: about 21 minutes;
 - b. When updating firmware: about 18 minutes (please update within 10 minutes of powering on the aircraft, otherwise the update may fail due to overheating);
 - c. When connecting to the computer using the USB-C port, the aircraft will not overheat and can be used for longer.
- These specifications have been determined through tests conducted with the latest firmware. Firmware updates can enhance performance. It is highly recommended to update to the latest firmware.

DJI Goggles 2

Goggles	
Model	RCDS18
Weight	Approx. 290 g (with headband)
Dimensions	167.4×103.9×81.31 mm (antenna folded)
	196.69×103.9×104.61 mm (antenna unfolded)
Screen Size (single screen)	0.49 inch
Resolution (single screen)	1920×1080
Screen Refresh Rate	Max. 100 Hz
FOV	51°
IPD Range	56-72 mm
Diopter Range	+2.0 D to -8.0 D
Transmission	
Operating Frequency	2.400-2.4835 GHz, 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <30 dBm (FCC), <20 dBm (CE/SRRC/MIC/KC)
	5.8 GHz: <30 dBm (FCC), <23 dBm (SRRC), <14 dBm (CE/KC)
Wi-Fi	
Protocol	Wi-Fi 802.11b/a/g/n/ac
Operating Frequency	2.400-2.4835 GHz
	5.150-5.250 GHz (indoor use only)
	5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <20 dBm (FCC/CE/SRRC/MIC/KC)
	5.1 GHz: <20 dBm (FCC/CE/MIC/KC)
	5.8 GHz: <20 dBm (FCC/SRRC/KC), <14 dBm (CE)
Bluetooth	
Protocol	Bluetooth 5.2
Operating Frequency	2.400-2.4835 GHz
Transmitter Power (EIRP)	<8 dBm
Max Video Bitrate	50 Mbps
Supported Video Recording Format	MOV
Supported Video Playback Format	MP4, MOV
Format	(Video format: H.264, H.265; Audio format: ACC, PCM)
Wi-Fi Wireless Streaming	DLNA
Operating Temperature	-10° to 40° C (14° to 104° F)
Power Input	DJI Goggles 2 Battery
Supported microSD Cards	microSD Card, max 256 GB
DJI Goggles 2 Battery	
Weight	Approx. 122 g
Dimension	73.04×40.96×26 mm
Capacity	1800 mAh
Voltage	7-9 V ≈ 1.5 A
Battery Type	Li-ion
Chemical System	LiNiMnCoO2
Energy	18 Wh
Charging Temperature	0° to 45° C (32° to 113° F)
Max Charging Power	12.6 W (5 V ≈ 2 A / 9 V ≈ 1.4 A)
Operating Time	Around 2 hours

DJI FPV Goggles V2

Goggles	
Model	FGDB28
Weight	Approx. 420 g (incl. headband and antennas)
Dimensions	184×122×110 mm (excl. antennas) 202×126×110 mm (incl. antennas)
Screen Size	2-inch
Screen Resolution (Single Screen)	1440×810
Screen Refresh Rate	144 Hz
FOV	30° to 54°; Image size: 50-100%
IPD Range	58-70 mm
Operating Frequency	2.400-2.4835 GHz, 5.725-5.850 GHz
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)
Communication Bandwidth	Max 40 MHz
Max Video Bitrate	50 Mbps
Supported Video Recording Format	MOV (Video format: H.264)
Supported Video Playback Format	MP4, MOV, MKV (Video format: H.264; Audio format: AAC-LC, AAC-HE, AC-3, MP3)
Operating Temperature	0° to 40° C (32° to 104° F)
Power Input	DJI FPV Goggles Battery
Supported microSD Cards	microSD Card, max 256 GB
DJI FPV Goggles Battery	
Weight	Approx. 119 g
Dimension	73.04×40.96×26 mm
Capacity	1800 mAh
Voltage	Max 9 V
Battery Type	LiPo 2S
Chemical System	LiNiMnCoO2
Energy	18 Wh
Charging Temperature	0° to 45° C (32° to 113° F)
Max Charging Power	10 W
Operating Time	Approx. 1 hour and 50 minutes

DJI Motion Controller

Model	FC7BMC
Weight	Approx. 167 g
Operating Frequency	2.400-2.4835 GHz, 5.725-5.850 GHz
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)
Operating Temperature	-10° to 40° C (14° to 104° F)
Operating Time	Approx. 5 hours