

Specs

Camera

Sensor	1/1.7-inch CMOS Effective Pixels: 48 MP
Lens	FOV: 155° Equivalent Focal Length: 12.7 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@30/50/60fps 2.7K@30/50/60/100/120fps 1080p@30/50/60/100/120fps With DJI FPV Goggles V2: 4K@30/50/60fps 2.7K@30/50/60/100/120fps 1080p@30/50/60/100/120fps
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°
Stabilization	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 ^[1]	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 ^[2]
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 U3 V30 A2 256GB microSDXC
Internal Storage	20 GB

Sensing System

Downward (Binocular Vision and ToF) ^[3]	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) ^[4]
Communication Bandwidth	Max 40 MHz
Live View Quality and Latency ^[5]	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 ^[6]	50 Mbps
Max Video Transmission Range ^[7]	10 km (FCC), 2 km (CE), 6 km (SRRC)
Audio Transmission	N/A

DJI Goggles 2

Model	RCDS18
Weight	Approx. 290 g (headband included)
Dimensions (L×W×H)	With antennas folded: 167.40×103.90×81.31 mm With antennas unfolded: 196.69×103.90×104.61 mm
Screen Size (single screen)	0.49-inch
Resolution (single screen)	1920×1080
Refresh Rate	Up to 100 Hz
Interpupillary Distance Range	56-72 mm
Diopter Adjustment Range	-8.0 D to +2.0 D
FOV (single screen)	51°
Communication Frequency	2.400-2.4835 GHz 5.725-5.850 GHz ^[4]
Transmission Power (EIRP)	2.4 GHz: < 30 dBm (FCC), < 20 dBm (CE/SRRC/KC) 5.8 GHz ^[4] : < 30 dBm (FCC), < 23 dBm (SRRC), < 14 dBm (CE/KC)
Wi-Fi Protocol	Wi-Fi 802.11b/a/g/n/ac
Wi-Fi Communication Frequency	2.400-2.4835 GHz 5.150-5.250 GHz (indoor use only) ^[8] 5.725-5.850 GHz ^[4]
Wi-Fi Transmission Power (EIRP)	2.4 GHz: < 20 dBm (FCC/CE/SRRC/KC) 5.1 GHz ^[8] : < 20 dBm (FCC/CE/KC) 5.8 GHz ^[4] : < 20 dBm (FCC/SRRC/KC), < 14 dBm (CE)
Bluetooth Protocol	Bluetooth 5.2
Bluetooth Communication Frequency	2.400-2.4835 GHz
Bluetooth Transmission Power (EIRP)	< 8 dBm
Max Video Transmission Bitrate ^[6]	50 Mbps
Video Recording Format	MOV
Supported Video and Audio Playback Formats	MP4 and MOV (video coding formats: H.264 and H.265; audio format: ACC, PCM)
Wi-Fi Wireless Streaming	Supports DLNA Protocol
Operating Temperature Range	-10° to 40° C (14° to 104° F)
Power Input	DJI Goggles 2 Battery
Supported SD Cards	microSD (up to 256 GB)

DJI Goggles 2 Battery

Capacity	1800 mAh
Voltage	7.9 V (1.5 A)
Type	Li-ion
Chemical System	LiNiMnCoO2
Energy	18 Wh
Charging Temperature Range	0° to 45° C (32° to 113° F)
Max Charging Power	12.6 W (5 V/2 A, 9 V/1.4 A)
Weight	Approx. 122 g
Dimensions (L×W×H)	73.04×40.96×26 mm
Operating Time	Approx. 2 hours

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 ^[4]
Max Video Transmission Bitrate ^[6]	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 ^[4] 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 (L×W×H)	73.04×40.96×26 mm
Capacity	1800 mAh
Voltage	Max 9 V
Chemical System	LiNiMnCoO2
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 ^[4]
Transmission Power (EIRP)	2.4 GHz: ≤ 28.5 dBm (FCC), ≤ 20 dBm (CE/SRRC) 5.8 GHz ^[4] : ≤ 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

DJI FPV Remote Controller 2

Model	FC7BGC
Weight	Approx. 346 g
Communication Frequency	2.400-2.4835 GHz 5.725-5.850 GHz ^[4]
Transmission Power (EIRP)	2.4 GHz: ≤ 28.5 dBm (FCC), ≤ 20 dBm (CE/SRRC) 5.8 GHz ^[4] : ≤ 31.5 dBm (FCC), ≤ 19 dBm (SRRC), ≤ 14 dBm (CE)
Dimensions (L×W×H)	190×140×51 mm
Operating Time	Approx. 9 hours
Operating Temperature Range	-10° to 40° C (14° to 104° F)
Charging Time	2.5 hours

Other

Footnotes	<ol style="list-style-type: none">The max flight speed is subject to dynamic local restrictions. Please abide by local laws and regulations when flying.Tested when hovering in an environment without wind or interference.DJI Avata only supports downward obstacle sensing when used with DJI FPV Remote Controller 2, or DJI Motion Controller in N Mode and S Mode.The 5.8 GHz frequency band is currently banned in certain countries or regions. For details, please refer to local laws and regulations.Tested in an outdoor open environment without interference. The video transmission latency data varies with different models.Tested in an outdoor open environment without interference. The video transmission bitrate varies with operating environments.FCC compliant and tested in an outdoor open environment without interference. Data is tested under different standards in an outdoor open environment without interference. Only to serve as a reference for the max one-way communication distance without considering RTH. Please pay attention to the RTH prompts during actual flight. Max one-way communication distance of DJI Avata in countries/regions of different standards: FCC: United States, Australia, Canada, Hong Kong, Taiwan, Chile, Colombia, Puerto Rico, and other regions. SRRC: Mainland China. CE: UK, France, Germany, Portugal, Spain, Switzerland, Macau, New Zealand, UAE, and other regions.
------------------	--