



**dji**

**AVATA**



# Aircraft

<b>Take off weight</b>	Approx. 410 g
<b>Model</b>	QF2W4K
<b>Dimensions (L×W×H)</b>	180×180×80 mm
<b>Diagonal Distance</b>	120 mm
<b>Max Speed</b>	8 m/s (Normal Mode) 14 m/s (Sport Mode) 27 m/s (Manual Mode)
<b>Maximum Takeoff Altitude</b>	5000 m
<b>Max Ascent Speed</b>	6 m/s (Normal Mode, Sport Mode)
<b>Max Descent Speed</b>	6 m/s (Normal Mode, Sport Mode)
<b>Max Hover Time</b>	Approx. 18 mins
<b>Max Wind Speed Resistance</b>	10 m/s
<b>Max Flight Distance</b>	11.6 km
<b>Max Wind Speed Resistance</b>	10.7 m/s (Level 5)
<b>Operating Temperature Range</b>	-10° to 40° C (14° to 104° F)
<b>Transmission Power (EIRP)</b>	FCC: < 33 dBm CE: < 14 dBm SRRC: < 30 dBm
<b>Hovering accuracy</b>	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)
<b>Antennas</b>	Dual Antennas, 2T2R
<b>GNSS</b>	GPS + Galileo + BeiDou



## Gimbal

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

## Intelligent Flight Battery

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

## Sensing System

<b>Downward (Binocular Vision and ToF)</b>	<b>ToF Effective Measurement Height: 10 m Precise Hovering Range: 0.5-10 m Vision Sensor Hovering Range: 0.5-20 m</b>
<b>Operating Environment</b>	<b>Diffuse reflective surfaces with a clear pattern &gt; 20% (such as walls, trees, or people) Adequate lighting (lux &gt; 15, normal indoor lighting conditions)</b>



# Video Transmission

<b>Communication Frequency</b>	2.400-2.4835 GHz (RX only) 5.725-5.850 GHz (RX and TX) [4]
<b>Live View Quality and Latency</b>	<p><b>With DJI FPV Goggles V2:</b> 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.</p> <p><b>With DJI Goggles 2:</b> 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.</p>
<b>Communication Bandwidth</b>	Max 40 Mhz
<b>Max Video Transmission Bitrate</b>	50 Mbps
<b>Max Video Transmission Range</b>	10 km (FCC), 2 km (CE), 6 km (SRRC)
<b>Audio Transmission</b>	N/A

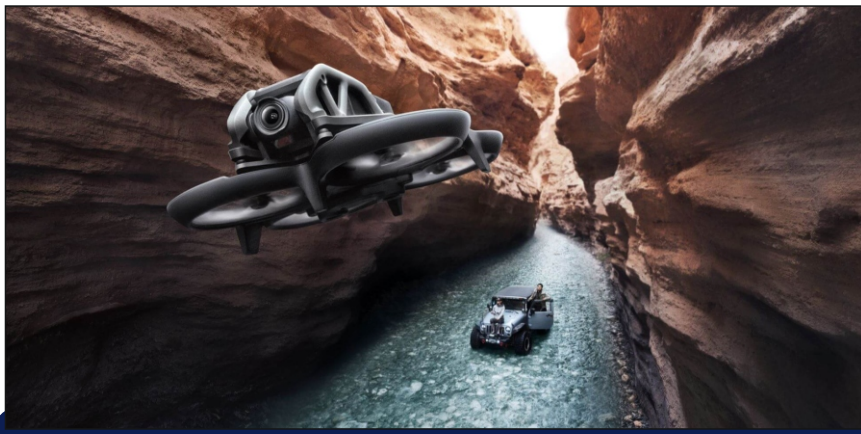
# DJI Motion Controller

<b>Model</b>	FC7BMC
<b>Weight</b>	Approx. 167 g
<b>Communication Frequency</b>	2.400-2.4835 GHz 5.725-5.850 GHz [4]
<b>Transmission Power (EIRP)</b>	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)
<b>Operating Temperature Range</b>	-10° to 40° C (14° to 104° F)
<b>Power Supply</b>	Built-in batteries or external battery
<b>Operating Time</b>	Approx. 5 hours



# Camera

<b>Sensor</b>	1/1.7-inch CMOS Effective Pixels: 48 MP
<b>Still Photography Mode</b>	Single Shot
<b>ISO range</b>	100-6400 (Auto) 100-25600 (Manual)
<b>Shutter Speed</b>	Video: 1/8000-1/50 s Photo: 1/8000-1/50 s
<b>Max Image Size</b>	4000×3000
<b>Photo Format</b>	JPEG
<b>Video Format</b>	Mp4
<b>Max Video Bitrate</b>	150 Mbps
<b>Color Mode</b>	Standard D-Cinelike
<b>EIS</b>	Supports RockSteady and HorizonSteady Can be disabled
<b>Distortion Correction</b>	Supports Normal Mode, Wide Mode, and Ultra Wide Mode
<b>Supported File System</b>	exFAT (recommended), FAT32
<b>Anti-flicker</b>	Capture Mode: Auto, 50 Hz, 60 Hz, OFF
<b>Video Resolution</b>	<p>With DJI Goggles 2:            4K@30/50/60fps            2.7K@30/50/60/100/120fps            1080p@30/50/60/100/120fps</p> <p>With DJI FPV Goggles V2:            4K@30/50/60fps            2.7K@30/50/60/100/120fps            1080p@30/50/60/100/120fps</p>



## DJI Goggles 2

<b>Model</b>	RCDS18
<b>Weight</b>	Approx. 290 g (headband included)
<b>Dimensions (L×W×H)</b>	With antennas folded: 167.40×103.90×81.31 mm With antennas unfolded: 196.69×103.90×104.61 mm
<b>Screen Size (single screen)</b>	0.49-inch
<b>Resolution (single screen)</b>	1920×1080
<b>Refresh Rate</b>	Up to 100 Hz
<b>Interpupillary Distance Range</b>	56-72 mm
<b>Diopter Adjustment Range</b>	-8.0 D to +2.0 D
<b>FOV (single screen)</b>	51°
<b>Communication Frequency</b>	2.400-2.4835 GHz 5.725-5.850 Ghz
<b>Transmission Power (EIRP)</b>	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)
<b>Wi-Fi Protocol</b>	Wi-Fi 802.11b/a/g/n/ac
<b>Wi-Fi Communication Frequency</b>	2.400-2.4835 Ghz 5.150-5.250 GHz (indoor use only) 5.725-5.850 Ghz
<b>Wi-Fi Transmission Power (EIRP)</b>	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)
<b>Bluetooth Protocol</b>	Bluetooth 5.2
<b>Bluetooth Communication Frequency</b>	2.400-2.4835 Ghz
<b>Bluetooth Transmission Power (EIRP)</b>	< 8 dBm
<b>Video Recording Format</b>	MOV
<b>Max Video Transmission Bitrate</b>	50 Mbps



## DJI Goggles 2

<b>Supported Video and Audio Playback Formats</b>	MP4 and MOV (video coding formats: H.264 and H.265; audio format: ACC, PCM)
<b>Wi-Fi Wireless Streaming</b>	Supports DLNA Protocol
<b>Operating Temperature Range</b>	Operating Temperature Range
<b>Power Input</b>	DJI Goggles 2 Battery
<b>Supported SD Cards</b>	microSD (up to 256 GB)

## DJI Goggles V2 Battery

<b>Weight</b>	Approx. 122 g
<b>Dimensions (L×W×H)</b>	73.04×40.96×26 mm
<b>Capacity</b>	1800 mAh
<b>Voltage</b>	7-9 V (1.5 A)
<b>Chemical System</b>	LiNiMnCoO2
<b>Type</b>	Li-Po 2S
<b>Power Input</b>	DJI Goggles 2 Battery
<b>Energy</b>	18 Wh
<b>Charging Temperature Range</b>	0° to 45° C (32° to 113° F)
<b>Max Charging Power</b>	12.6 W (5 V/2 A, 9 V/1.4 A)
<b>Operating Time</b>	Approx. 2 hours



## DJI FPV Goggles V2

<b>Model</b>	FGDB28
<b>Weight</b>	Approx. 420 g (headband and antennas included)
<b>Dimensions (L×W×H)</b>	Without antennas: 184×122×110 mm With antennas: 202×126×110 mm
<b>Screen Size (single screen)</b>	2-inch
<b>Power Input</b>	Dedicated DJI Goggles batteries
<b>Supported SD Cards</b>	microSD (up to 256 GB)
<b>Communication Bandwidth</b>	Max 40 Mhz
<b>Interpupillary Distance Range</b>	58-70 mm
<b>FOV</b>	30° to 54°, adjustable Image Size: 50% to 100%
<b>Communication Frequency</b>	2.400-2.4835 GHz 5.725-5.850 Ghz
<b>Transmission Power (EIRP)</b>	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)
<b>Screen Resolution</b>	1440×810

## DJI FPV Remote Controller 2

<b>Weight</b>	Approx. 346 g
<b>Model</b>	FC7BGC
<b>Communication Frequency</b>	2.400-2.4835 Ghz 5.725-5.850 GHz
<b>Transmission Power (EIRP)</b>	2.4 GHz: ≤ 28.5 dBm (FCC), ≤ 20 dBm (CE/SRRC) 5.8 GHz: ≤ 31.5 dBm (FCC), ≤ 19 dBm (SRRC), ≤ 14 dBm (CE)
<b>Dimensions (L×W×H)</b>	190×140×51 mm
<b>Operating Time</b>	Approx. 9 hours
<b>Operating Temperature Range</b>	18 Wh
<b>Charging Temperature Range</b>	-10° to 40° C (14° to 104° F)
<b>Charging Time</b>	2.5 hours





## DJI FPV Goggles V2 Battery

<b>Weight</b>	Approx. 119 g
<b>Dimensions (L×W×H)</b>	73.04×40.96×26 mm
<b>Capacity</b>	1800 mAh
<b>Voltage</b>	Max 9 V
<b>Chemical System</b>	LiNiMnCoO <sub>2</sub>
<b>Type</b>	Li-Po 2S
<b>Power Input</b>	DJI Goggles 2 Battery
<b>Energy</b>	18 Wh
<b>Charging Temperature Range</b>	0° to 45° C (32° to 113° F)
<b>Max Charging Power</b>	10 W
<b>Operating Time</b>	Approx. 110 mins



# Other

1. The max flight speed is subject to dynamic local restrictions. Please abide by local laws and regulations when flying.
2. Tested when hovering in an environment without wind or interference.
3. 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.
4. The 5.8 GHz frequency band is currently banned in certain countries or regions. For details, please refer to local laws and regulations.
5. Tested in an outdoor open environment without interference. The video transmission latency data varies with different models.
6. Tested in an outdoor open environment without interference. The video transmission bitrate varies with operating environments.
7. 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.
8. The 5.1 GHz frequency band is currently banned in Thailand. For details, please refer to local laws and regulations.

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