


MAVERICK
DRONES & TECHNOLOGIES PVT. LTD



dji AVATA 2

www.mavdrones.com

Aircraft

Takeoff Weight	Approx. 377 g
Dimensions	185×212×64 mm (L×W×H)
Max Ascent Speed	6 m/s (Normal mode) 9 m/s (Sport mode)
Max Descent Speed	6 m/s (Normal mode) 9 m/s (Sport mode)
Max Horizontal Speed (near sea level, no wind)	8 m/s (Normal mode) 16 m/s (Sport mode) 27 m/s (Manual mode)*
Max Takeoff Altitude	5000 m
Max Flight Time	Approx. 23 mins
Max Hovering Time	Approx. 21 mins
Max Flight Distance	13.0 km
Max Wind Speed Resistance	10.7 m/s (Level 5)
Operating Temperature Global Navigation Satellite System	-10° to 40° C (14° to 104° F) 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)
Internal Storage	46 GB
Class	C1 (EU)





DJI Goggles 3

Visionary Breakthrough

DJI Goggles 3 now has **Real View PiP** (Picture-in-Picture). Observe your surroundings without removing the goggles, for more safety and immersion. The micro-OLED high-definition display and ultra-low-latency transmission bring the world into view.

DJI RC Motion 3

Feel Every Flight

Effortlessly perform difficult aerial acrobatics with DJI RC Motion 3. New pilots can now perform spectacular flips, drifts, and other captivating maneuvers.



AVATA 2

Camera

Image Sensor	1/1.3-inch image sensor Effective Pixels: 12 MP
Lens	FOV: 155° Format Equivalent: 12 mm Aperture: f/2.8 Focus: 0.6 m to ∞
ISO Range	100-25600 (Auto) 100-25600 (Manual)
Shutter Speed	Video: 1/8000-1/30 s Photo: 1/8000-1/50 s
Max Image Size	4000×2256 (16:9) 4000×3000 (4:3)
Still Photography Mode	Single shot
Photo Format	JPEG
Video Resolution	4K (4:3): 3840×2880@30/50/60fps 4K (16:9): 3840×2160@30/50/60/100fps 2.7K (4:3): 2688×2016@30/50/60fps 2.7K (16:9): 2688×1512@30/50/120fps 1080p (4:3): 1440×1080@30/50/120fps 1080p (16:9): 1920×1080@30/50/120fps
Video Format	MP4 (H.264/H.265)
Max Video Bitrate	130 Mbps
Supported File System	exFAT
Color Mode	Standard D-Log M
Camera FOV	Supports normal mode, wide-angle mode, and ultra-wide-angle mode.
EIS	Supports RockSteady 3.0+ and HorizonSteady Can be disabled*

1/1.3-inch CMOS Sensor



The upgraded 1/1.3-inch CMOS sensor expands the captured dynamic range, handling low-light conditions more effectively to capture outstanding footage on every flight. ^[5]

Effective Pixels

12 MP

Offline Stabilization

Gyroflow ^[6]


Gimbal

Stabilization	Single-axis mechanical gimbal (tilt)
Mechanical Range	Tilt: -95° to 90°
Controllable Range	Tilt: -85° to 80°
Max Control Speed (tilt)	100°/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.

Sensing

Sensing Type	Downward and backward visual positioning
Downward	ToF Effective Measurement Height: 10 m Precise Hovering Range: 0.3-10 m Measurement Range: 0.3-20 m FOV: Horizontal 78°, Vertical 78°
Backward	Measurement Range: 0.5-20 m FOV: Horizontal 78°, Vertical 78°
Operating Environment	Diffuse reflective surfaces with discernible patterns, diffuse reflectivity > 20% (such as concrete pavement) Adequate lighting (lux > 15, normal indoor lighting conditions)







Avata 2 comes equipped with **46GB internal storage**, capable of storing approximately 90 minutes of 1080p/60fps video, ensuring you capture the best parts of each flight.

With Wi-Fi connectivity for fast file transfer to your phone, post-editing and sharing of your finished work is highly efficient.



Video Transmission

Video Transmission System	O4
Live View Quality	1080p@30/50/60/100fps
Operating Frequency	2.400-2.4835 GHz 5.170-5.250 GHz* 5.725-5.850 GHz*
Transmitter Power (EIRP)	 <p>2.4 GHz: <33 dBm (FCC) <20 dBm (CE/SRRC/MIC)</p> <p>5.1 GHz: < 23 dBm (CE)</p> <p>5.8 GHz: <33 dBm (FCC) <30 dBm (SRRC) < 14 dBm (CE)</p> 
Communication Bandwidth	Max 60 MHz
Max Transmission Distance (unobstructed, free of interference)	FCC: 13 km (subject to the aircraft's max flight distance) CE: 10 km SRRC: 10 km MIC: 10 km
Max Transmission Distance (unobstructed, with interference)	<p>Strong Interference: Urban landscape, approx. 1.5-4 km</p> <p>Medium Interference: Suburban landscape, approx. 4-10 km</p> <p>Low Interference: Suburb/seaside, approx. 10-13 km</p>

Intelligent Flight Battery

Capacity	2150 mAh
Weight	Approx. 145 g
Standard Voltage	14.76 V
Max Charging Voltage	17 V
Battery Type	Li-ion
Energy	31.7 Wh@0.5C
Charging Temperature	5° to 40° C (41° to 104° F)
Charging Time	<p>With Charging Hub (60W max charging power): From 0 to 100%: approx. 45 min From 10 to 90%: approx. 30 min</p> <p>Directly Charging the Drone (30 W max charging power): From 0 to 100%: approx. 88 min From 10 to 90%: approx. 60 mi</p>

DJI FPV Remote Controller 3

Max Operating Time	Approx. 10 hours
Operating Temperature	-10° to 40° C (14° to 104° F)
Charging Temperature	0° to 50° C (32° to 122° F)
Charging Time	2 hours
Charging Type	5 V, 2 A
Battery Capacity	2600 mAh
Weight	Approx. 240 g
Dimensions	165×119×62 mm (L×W×H)
Operating Frequency	2.400-2.4835 GHz
Transmitter Power (EIRP)	2.400 GHz: <26 dBm (FCC) <20 dBm (CE/SRRC/MIC)

Advanced Positioning With New Sensors

New binocular fisheye sensors enable downward and backward visual positioning during low-altitude and indoor flights, enhancing flight stability and safety.



Turtle Mode

Avata 2 can automatically flip itself back into takeoff position when upside down with Turtle mode enabled, so you can quickly get airborne again.

Battery Charging Hub

Input	5-20 V, max 3 A
Output (power accumulation)	Max 65 W
Output (charging)	Max 17 V
Output (USB)	5 V, 2 A
Charging Type	Three batteries charged in sequence.
Compatibility	DJI Avata 2 Intelligent Flight Battery

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