DJI AVATA 2

FPV Immersive Flight Drone

1/1.3" CMOS 12 MP · 155° FOV · 4K/100fps · 130 Mbps · O4 Transmission 13 km · 23 Min Flight Time

The DJI Avata 2 is a compact FPV drone engineered for immersive first-person-view flight, combining a 1/1.3-inch CMOS sensor with an ultra-wide 155° FOV lens (12 mm equiv., f/2.8), 4K video up to 100fps, and a max bitrate of 130 Mbps. It features RockSteady 3.0+ and HorizonSteady electronic stabilization, D-Log M color profile support, 46 GB internal storage, and the O4 video transmission system with a 13 km range. Compatible with DJI Goggles 3 for a latency as low as 24 ms.

AIRCRAFT

Parameter	Specification
Takeoff Weight	Approx. 377 g
Dimensions	185 × 212 × 64 mm (L × W × H)
Internal Storage	46 GB
Max Ascent Speed	6 m/s (Normal) / 9 m/s (Sport)
Max Descent Speed	6 m/s (Normal) / 9 m/s (Sport)
Max Horizontal Speed	8 m/s (Normal) / 16 m/s (Sport) / 27 m/s (Manual)*
Max Takeoff Altitude	5,000 m
Max Flight Time	Approx. 23 min
Max Hovering Time	Approx. 21 min
Max Flight Distance	13 km
Max Wind Speed Resistance	10.7 m/s (Level 5)
Operating Temperature	-10°C to 40°C (14°F to 104°F)
GNSS	GPS + Galileo + BeiDou
Hovering Accuracy — Vertical	±0.1 m (Vision) / ±0.5 m (GNSS)
Hovering Accuracy — Horizontal	±0.3 m (Vision) / ±1.5 m (GNSS)
EU Class	C1
Software Updates Guaranteed Until	2026-12-31

CAMERA

Parameter	Specification
Image Sensor	1/1.3-inch CMOS — Effective Pixels: 12 MP
Lens FOV	155°
Equivalent Focal Length	12 mm
Aperture	f/2.8
Focus Range	0.6 m to ∞

Max Image Size	4000 × 2256 (16:9) / 4000 × 3000 (4:3)
ISO Range	100–25600 (Auto & Manual)
Shutter Speed	Video: 1/8000–1/30 s / Photo: 1/8000–1/50 s
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
Color Mode	Standard / D-Log M
Camera FOV Modes	Normal / Wide-Angle / Ultra-Wide-Angle
EIS	RockSteady 3.0+ / HorizonSteady (can be disabled)
Supported File System	exFAT

GIMBAL

Parameter	Specification
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.)

OBSTACLE SENSING

Direction	Specification
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 78° × 78°
Operating Environment	Diffuse reflective surfaces with discernible patterns, diffuse reflectivity > 20% (such as concrete pavement) Adequate lighting (lux > 15, normal indoor lighting conditions)

VIDEO TRANSMISSION — O4

Parameter	Specification
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)	2.4 GHz: <33 dBm (FCC) <20 dBm (CE/SRRC/MIC) 5.1 GHz: < 23 dBm (CE) 5.8 GHz: <33 dBm (FCC) <30 dBm (SRRC) < 14 dBm (CE)
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)	Strong Interference: Urban landscape, approx. 1.5-4 km Medium Interference: Suburban landscape, approx. 4-10 km Low Interference: Suburb/seaside, approx. 10-13 km
Max Transmission Distance (obstructed, with interference)	Low Interference and Obstructed by Buildings: approx. 0-0.5 km Low Interference and Obstructed by Trees: approx. 0.5-3 km
Max Download Speed	Wi-Fi: 30 MB/s*
Lowest Latency	With DJI Goggles 3: 1080p/100fps Video Transmission Quality: 24 ms 1080p/60fps Video Transmission Quality: 40 ms
Max Video Bitrate	60Mbps
Antennas	4 antennas, 2T4R

WI-FI

Parameter	Specification
Protocol	IEEE 802.11a/b/g/n/ac
Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
Transmitter Power (EIRP) 2.4 GHz	< 20 dBm (FCC/CE/SRRC/MIC)
Transmitter Power (EIRP) 5.8 GHz	< 20 dBm (FCC/SRRC) / < 14 dBm (CE)

BLUETOOTH

Parameter	Specification
Protocol	Bluetooth 5.0
Operating Frequency	2.400–2.4835 GHz
Transmitter Power (EIRP)	< 10 dBm

INTELLIGENT FLIGHT BATTERY

Parameter	Specification
Capacity	2,150 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°C to 40°C (41°F to 104°F)
Charging Time (Hub, 60W)	0→100%: approx. 45 min / 10→90%: approx. 30 min
Charging Time (Direct, 30W)	0→100%: approx. 88 min / 10→90%: approx. 60 min

BATTERY CHARGING HUB

Parameter	Specification
Input	5–20 V, max 3 A
Max Output (charging)	17 V
Max Output Power	65 W
Output (USB)	5 V, 2 A
Charging Type	3 batteries charged in sequence
Compatibility	DJI Avata 2 Intelligent Flight Battery

CHARGER

Parameter	Specification
Recommended Charger	DJI 65W Portable Charger DJI 65W Car Charger USB Power Delivery charger

DJI FPV REMOTE CONTROLLER 3

Parameter	Specification
Max Operating Time	Approx. 10 hours
Battery Capacity	2,600 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)
Operating Temperature	-10°C to 40°C (14°F to 104°F)
Charging Temperature	0°C to 50°C (32°F to 122°F)
Charging Time/Type	2 hours/5 V, 2 A

STORAGE — RECOMMENDED MICROSD CARDS

Brand	Models
Kingston	CANVAS Go! Plus — 64 / 128 / 256 / 512 GB — U3 A2 V30 microSDXC
Lexar	Professional 1066x — 64 / 128 / 256 / 512 GB — U3 A2 V30 microSDXC

* In EU regions, Manual mode is limited to 19 m/s. All specifications sourced from the official DJI product page: https://www.dji.com/global/avata-2/specs

Performance data (flight time, range, latency) measured under controlled conditions. Actual results may vary depending on environment, usage, and firmware version.

DJI AVATA 2

Drona FPV pentru zbor imersiv

Senzor CMOS 1/1.3″ 12 MP · FOV 155° · 4K/100fps · 130 Mbps · Transmisie O4 13 km · Autonomie 23 min

DJI Avata 2 este o drona FPV compacta, conceputa pentru zbor imersiv la persoana intai, combinand un senzor CMOS de 1/1.3 inch cu o lentila ultra-wide de 155° FOV (echivalent 12 mm, f/2.8), video 4K pana la 100fps si un bitrate maxim de 130 Mbps. Dispune de stabilizare electronica RockSteady 3.0+ si HorizonSteady, profil de culoare D-Log M, stocare interna de 46 GB si sistemul de transmisie video O4 cu o raza de 13 km. Compatibila cu DJI Goggles 3 pentru o latenta de pana la 24 ms.

AERONAVA

Parametru	Specificatie
Greutate la decolare	Aprox. 377 g
Dimensiuni	185 x 212 x 64 mm (L x l x H)
Stocare interna	46 GB
Viteza maxima de urcare	6 m/s (Mod Normal) / 9 m/s (Mod Sport)
Viteza maxima de coborare	6 m/s (Mod Normal) / 9 m/s (Mod Sport)
Viteza maxima orizontala	8 m/s (Normal) / 16 m/s (Sport) / 27 m/s (Manual)*
Altitudine maxima de decolare	5.000 m
Timp maxim de zbor	Aprox. 23 min
Timp maxim de stationare	Aprox. 21 min
Distanta maxima de zbor	13 km
Rezistenta maxima la vant	10,7 m/s (Nivel 5)
Temperatura de functionare	-10°C pana la 40°C (14°F pana la 104°F)
GNSS	GPS + Galileo + BeiDou
Precizie stationare — Verticala	±0,1 m (Vizual) / ±0,5 m (GNSS)
Precizie stationare — Orizontala	±0,3 m (Vizual) / ±1,5 m (GNSS)
Clasa UE	C1
Actualizari software garantate pana la	31.12.2026

CAMERA

Parametru	Specificatie
Senzor imagine	CMOS 1/1.3 inch — Pixeli efectivi: 12 MP
Unghi de camp (FOV)	155°
Distanta focala echivalenta	12 mm
Apertura	f/2.8
Distanta de focalizare	0,6 m pana la infinit

Dimensiune maxima imagine	4000 x 2256 (16:9) / 4000 x 3000 (4:3)
Interval ISO	100–25600 (Auto si Manual)
Viteza obturatorului	Video: 1/8000–1/30 s / Foto: 1/8000–1/50 s
Mod fotografiere	Fotografie simpla
Format foto	JPEG
Rezolutie video	4K (4:3) 3840x2880 @ 30/50/60fps 4K (16:9) 3840x2160 @ 30/50/60/100fps 2.7K (4:3) 2688x2016 @ 30/50/60fps 2.7K (16:9) 2688x1512 @ 30/50/120fps 1080p (4:3) 1440x1080 @ 30/50/120fps 1080p (16:9) 1920x1080 @ 30/50/120fps
Format video	MP4 (H.264 / H.265)
Bitrate maxim video	130 Mbps
Mod culoare	Standard / D-Log M
Moduri FOV camera	Normal / Unghi larg / Ultra-unghi larg
Stabilizare electronica (EIS)	RockSteady 3.0+ / HorizonSteady (poate fi dezactivata)
Sistem fisiere suportat	exFAT

GIMBAL

Parametru	Specificatie
Stabilizare	Gimbal mecanic pe o axa (inclinare)
Cursa mecanica — Inclinare	-95° pana la 90°
Cursa controlabila — Inclinare	-85° pana la 80°
Viteza maxima de control (inclinare)	100°/s
Amplitudine vibratii unghiulare	±0,01°
Axa electronica de ruliu	Corectia in timp real a imaginii nu este disponibila in timpul inregistrarii, dar poate fi aplicata materialului video inregistrat pe drona.

DETECTIE OBSTACOLE

Directie	Specificatie
Tip senzori	Pozitionare vizuala jos si spate
Jos	Inaltime maxima eficienta ToF: 10 m Raza stationare precisa: 0,3–10 m Raza de masurare: 0,3–20 m FOV: Orizontal 78°, Vertical 78°
Spate	Raza masurare: 0,5–20 m / FOV 78° x 78°
Mediu de operare	Suprafete cu reflexie difuza si textura vizibila, reflectivitate > 20% (ex: pavaj din beton) Iluminare adecvata (lux > 15, conditii normale de iluminat interior)

TRANSMISIE VIDEO — O4

Parametru	Specificatie
Sistem de transmisie	O4
Calitate vizualizare live	1080p @ 30/50/60/100fps
Frecventa de operare	2,400–2,4835 GHz 5,170–5,250 GHz* 5,725–5,850 GHz*
Putere emitator (EIRP)	2,4 GHz: < 33 dBm (FCC) < 20 dBm (CE/SRRC/MIC) 5,1 GHz: < 23 dBm (CE) 5,8 GHz: < 33 dBm (FCC) < 30 dBm (SRRC) < 14 dBm (CE)
Banda de comunicare	Max 60 MHz
Raza maxima (fara obstacole, fara interferente)	FCC: 13 km (limitat de distanta maxima de zbor a aeronavei) CE: 10 km SRRC: 10 km MIC: 10 km
Raza maxima (fara obstacole, cu interferente)	Interferente puternice: peisaj urban, aprox. 1,5–4 km Interferente medii: peisaj suburban, aprox. 4–10 km Interferente reduse: suburban/litoral, aprox. 10–13 km
Raza maxima (cu obstacole si interferente)	Interferente reduse, obstructionat de cladiri: aprox. 0–0,5 km Interferente reduse, obstructionat de copaci: aprox. 0,5–3 km
Viteza maxima descarcare	Wi-Fi: 30 MB/s*
Latenta minima	Cu DJI Goggles 3: Calitate transmisie 1080p/100fps: 24 ms Calitate transmisie 1080p/60fps: 40 ms
Bitrate maxim video	60 Mbps
Antene	4 antene, 2T4R

WI-FI

Parametru	Specificatie
Protocol	IEEE 802.11a/b/g/n/ac
Frecventa de operare	2,400–2,4835 GHz 5,725–5,850 GHz
Putere emitator (EIRP) 2,4 GHz	< 20 dBm (FCC/CE/SRRC/MIC)
Putere emitator (EIRP) 5,8 GHz	< 20 dBm (FCC/SRRC) / < 14 dBm (CE)

BLUETOOTH

Parametru	Specificatie
Protocol	Bluetooth 5.0
Frecventa de operare	2,400–2,4835 GHz
Putere emitator (EIRP)	< 10 dBm

BATERIE INTELIGENTA DE ZBOR

Parametru	Specificatie
Capacitate	2.150 mAh
Greutate	Aprox. 145 g
Tensiune nominala	14,76 V
Tensiune maxima de incarcare	17 V
Tip baterie	Li-ion
Energie	31,7 Wh @ 0,5C
Temperatura de incarcare	5°C pana la 40°C (41°F pana la 104°F)
Timp incarcare (Hub, 60W)	0→100%: aprox. 45 min / 10→90%: aprox. 30 min
Timp incarcare (Direct, 30W)	0→100%: aprox. 88 min / 10→90%: aprox. 60 min

HUB DE INCARCARE BATERII

Parametru	Specificatie
Intrare	5–20 V, max 3 A
Iesire maxima (incarcare)	17 V
Putere maxima iesire	65 W
Iesire USB	5 V, 2 A
Tip incarcare	3 baterii incarcate secvential
Compatibilitate	Baterie inteligenta de zbor DJI Avata 2

INCARCATOR

Parametru	Specificatie
Incarcatoare recomandate	DJI 65W Portable Charger DJI 65W Car Charger Incarcator USB Power Delivery

TELECOMANDA DJI FPV REMOTE CONTROLLER 3

Parametru	Specificatie
Timp maxim de functionare	Aprox. 10 ore
Capacitate baterie	2.600 mAh
Greutate	Aprox. 240 g
Dimensiuni	165 x 119 x 62 mm (L x l x H)
Frecventa de operare	2,400–2,4835 GHz
Putere emitator (EIRP)	2,400 GHz: < 26 dBm (FCC) < 20 dBm (CE/SRRC/MIC)
Temperatura de functionare	-10°C pana la 40°C (14°F pana la 104°F)
Temperatura de incarcare	0°C pana la 50°C (32°F pana la 122°F)
Timp / Tip incarcare	2 ore / 5 V, 2 A

STOCARE — CARDURI MICROSD RECOMANDATE

Producator	Modele
Kingston	CANVAS Go! Plus — 64 / 128 / 256 / 512 GB — U3 A2 V30 microSDXC
Lexar	Professional 1066x — 64 / 128 / 256 / 512 GB — U3 A2 V30 microSDXC

* In regiunile UE, modul Manual este limitat la 19 m/s. Toate specificatiile provin de pe pagina oficiala DJI: https://www.dji.com/global/avata-2/specs

Datele de performanta (autonomie, raza, latenta) au fost masurate in conditii de laborator controlate. Rezultatele reale pot varia in functie de mediu, utilizare si versiunea de firmware.