

# Technical Parameters

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## aircraft

<b>Takeoff weight</b>	Approximately 377 grams
<b>size</b>	185 mm long, 212 mm wide, and 64 mm high.
<b>Maximum speed of ascent</b>	6 m/s (Normal) 9 m/s (Sport)
<b>Maximum descent speed</b>	6 m/s (Normal) 9 m/s (Sport)
<b>Maximum horizontal flight speed (no wind near sea level)</b>	8 m/s (normal mode) 16 m/s (sport mode) 27 m/s (manual mode) *  * In the EU, the flight speed of manual mode is not higher than 19 m/s.
<b>Maximum takeoff altitude</b>	The measurement was taken at an altitude of 5000 meters. Please pay attention to the altitude of the flight mode until the battery level reached 20%. This is for
<b>Longest flight time</b>	The measurement was taken approximately 23 minutes. The original battery level is 100%. The remaining battery is adjusted to 20% for safety. Please pay attention to the battery level during the flight.
<b>Maximum hover time</b>	The measurement was taken approximately 21 minutes. The original battery level is 100%. The remaining battery is adjusted to 20% for safety. Please pay attention to the battery level during the flight.
<b>Maximum cruising range</b>	The distance was 13.0 km. The original battery level is 100%. The remaining battery is adjusted to 20% for safety. Please pay attention to the battery level during the flight.
<b>Maximum wind resistance speed</b>	10.7 m/s (Force 5 wind)
<b>Operating ambient temperature</b>	-10°C to 40°C
<b>Satellite navigation system</b>	GPS + Galileo + BeiDou
<b>Hovering accuracy</b>	Vertical: ±0.1 m (when visual positioning is working normally) ±0.5 m (when GNSS is working normally)  Horizontal: ±0.3 m (when visual positioning is working normally) ±1.5 m (when GNSS is working normally)
<b>Onboard memory</b>	46GB
<b>Classification</b>	EU C1

## camera

<b>Image sensor</b>	1/1.3-inch image sensor with 12 million effective pixels
<b>lens</b>	Field of view (FOV): 155° ; Equivalent focal length: 12 mm; Aperture: f/2.8 ; Focus point: 0.6 meters to infinity
<b>ISO range</b>	100 to 25600 (Automatic) 100 to 25600 (Manual)
<b>Shutter speed</b>	Video recording: 1/8000 to 1/30 second; Photo recording: 1/8000 to 1/50 second
<b>Maximum photo size</b>	4000 × 2256 (16:9) 4000 × 3000 (4:3)
<b>Photo shooting mode</b>	Single shot
<b>Image format</b>	JPEG
<b>Video resolution</b>	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@30/50/60/100/120fps 1080p (4:3): 1440 × 1080@30/50/60/100/120fps 1080p (16:9): 1920 × 1080@30/50/60/100/120fps
<b>Video Format</b>	MP4 (H.264/H.265)
<b>Maximum video bitrate</b>	130Mbps
<b>Supported file systems</b>	exFAT
<b>Color Mode</b>	Normal mode D-Log M mode
<b>Shooting angle</b>	Supports standard, wide-angle, and ultra-wide-angle modes.
<b>Electronic Stabilization</b>	Supports RockSteady 3.0+ and HorizonSteady stabilization. Stabilization can be turned off.  When stabilization is turned off, video footage shot from the "wide-angle" perspective supports Gyroflow offline stabilization.

## **gimbal**

<b>Stable system</b>	Single-axis mechanical gimbal (pitch axis)
<b>Structural design scope</b>	Pitch: -95° to 90°
<b>Controllable rotation range</b>	Pitch: -85° to 80°
<b>Maximum control speed (pitch)</b>	100°/s
<b>Angle jitter</b>	±0.01°
<b>Tilt correction</b>	Real-time image correction is not supported; correction is supported only for recorded footage.

# Perception

<b>Perception system type</b>	Looking down and looking back
<b>Looking down</b>	ToF Effective Measurement Height: 10 meters; Precise Hovering Height Range: 0.3 to 10 meters; Distance Measurement Range: 0.3 to 20 meters ; Field of View (FOV): 78° horizontally, 78° vertically.
<b>Rearview</b>	Distance measurement range: 0.5 to 20 meters ; Field of view (FOV): 78° horizontally, 78° vertically.
<b>Effective use environment</b>	The surface is made of diffuse reflective material with rich texture and a reflectivity greater than 20% (such as cement pavement). It is suitable for environments with sufficient lighting (greater than 15 lux, under normal indoor fluorescent lighting).

# Image transmission

<b>Image transmission solution</b>	O4
<b>Real-time image transmission quality</b>	1080p@30/50/60/100fps
<b>Operating frequency band</b>	2.400 GHz to 2.4835 GHz , 5.170 GHz to 5.250 GHz* , 5.725 GHz to 5.850 GHz*; <small>*5.170 GHz to 5.250 GHz and 5.725 GHz to 5.850 GHz are only available in certain countries and regions where regulations permit.</small>
<b>Transmit power (EIRP)</b>	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)
<b>Communication bandwidth</b>	Maximum 60 MHz
<b>Maximum signal effective distance (no interference, no obstruction)</b>	FCC: 13 km (limited by the aircraft's maximum range) CE: 10 km SRRC: 10 km MIC: 10 km <small>The above data is only for reference only. Please pay attention to the actual product specifications for the actual use.</small>
<b>Maximum signal effective distance (with interference and without obstruction)</b>	Strong interference: Urban center, approximately 1.5 to 4 kilometers ; Medium interference: Suburban county towns, approximately 4 to 10 kilometers; Slight interference: Outer suburbs/coastal areas, approximately 10 to 13 kilometers. <small>The above data is only for reference only. Please pay attention to the actual product specifications for the actual use.</small>
<b>Maximum effective signal range (with interference and obstruction)</b>	Minor interference, with building obstruction: approximately 0 to 0.5 km ; Minor interference, with foliage obstruction: approximately 0.5 to 3 km. <small>The above data is only for reference only. Please pay attention to the actual product specifications for the actual use.</small>

<b>Maximum download speed</b>	Wi-Fi: 30 MB/s* <small>*Download speed is subject to wireless interference laboratory environment in a country or region that supports dual-band 2.4GHz and 5.8GHz. Please refer to a</small>
<b>Minimum latency</b>	Paired with DJI Goggles 3: 1080p/100fps image transmission quality: image transmission latency as low as 24 milliseconds; 1080p/60fps image transmission quality: image transmission latency as low as 40 milliseconds.
<b>Maximum image transmission bitrate</b>	60Mbps
<b>antenna</b>	Four antennas (two transmit and four receive)

## Wi-Fi

<b>protocol</b>	802.11a/b/g/n/ac
<b>Operating frequency band</b>	2.400 GHz to 2.4835 GHz 5.725 GHz to 5.850 GHz
<b>Transmit power (EIRP)</b>	2.4 GHz: <20 dBm (FCC/CE/SRRC/MIC)  5.8 GHz: <20 dBm (FCC/SRRC) <14 dBm (CE)

## Bluetooth

<b>protocol</b>	Bluetooth 5.0
<b>Operating frequency band</b>	2.400 GHz to 2.4835 GHz
<b>Transmit power (EIRP)</b>	<10 dBm

## Battery

<b>capacity</b>	2150 mAh
<b>weight</b>	Approximately 145 grams
<b>nominal voltage</b>	14.76 volts
<b>Charging limit voltage</b>	17 volts
<b>Battery Type</b>	Li-ion
<b>energy</b>	31.7 watt-hours (measured at 0.5C rate)
<b>Charging ambient temperature</b>	5°C to 40°C
<b>Charging time</b>	Using the charging manager (maximum charging power 60W): Battery from 0% to full: Approximately 45 minutes ; Battery from 10% to 90%: Approximately 30 minutes.

Charging via the device (maximum charging power 30W):  
Battery from 0% to full: Approximately 88 minutes;  
Battery from 10% to 90%: Approximately 60 minutes.

## charger

**Recommended charger** DJI 65W Portable Charger,  
DJI 65W Car Charger,  
USB Charger Supporting USB PD Fast Charging Protocol

## Charging Butler

**enter** 5 to 20 volts, with a maximum of 3 amps.

**Output (collector)** Maximum 65 watts

**Output (charging)** Maximum 17 volts

**Output (USB)** 5 volts, 2 amps

**Charging method** 3 batteries charging in rotation

**Battery adapter** DJI Avata 2 Smart Flight Battery

## storage

**Recommended memory card list** Kingston CANVAS Go! Plus 64GB U3 A2 V30 microSDXC  
Kingston CANVAS Go!  
Plus 128GB U3 A2 V30 microSDXC  
Kingston CANVAS Go! Plus 256GB U3 A2 V30 microSDXC Kingston CANVAS Go! Plus 512GB U3 A2 V30 m  
Lexar Professional 1066x 64GB U3 A2 V30 microSDXC  
Lexar Professional 1066x 128GB U3 A2 V30 microSDXC  
Lexar Professional 1066x 256GB U3 A2 V30 microSDXC  
Lexar Professional 1066x 512GB U3 A2 V30 microSDXC

## DJI FPV Remote Control 3

**Longest battery life** Approximately 10 hours

**Operating ambient temperature** -10°C to 40°C

**Charging ambient temperature** 0°C to 50°C

**Charging time** 2 hours

**Charging method** 5 volts, 2 amps

**Battery capacity** 2600 mAh

**weight** Approximately 240 grams

**size** 165 mm long, 119 mm wide, and 62 mm high.

<b>Operating frequency band</b>	2.400 GHz to 2.4835 GHz
<b>Transmit power (EIRP)</b>	2.400 GHz: < 26 dBm (FCC) < 20 dBm (CE / SRRC / MIC)