

# DJI Inspire 3

Full-Frame 8K ProRes RAW/CDNG | 1/1.8-inch Ultra-Wide Night-Vision FPV Camera | Dual Aircraft Frame Configurations: Tilt Boost & 360° Pan | O3 Pro Video Transmission with Dual-Control | Centimeter-Level RTK Positioning and Waypoint Pro | Supports DJI Transmission/Master Wheels/Three-Channel Follow Focus

## Aircraft

Model	T740
Aircraft Weight	Approx. 3,995 g (includes gimbal camera, two batteries, lens, PROSSD, and propellers)
Max Takeoff Weight	Approx. 4,310 g
Hovering Accuracy Range	Vertical: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning) ±0.1 m (with RTK positioning)  Horizontal: ±0.3 m (with vision positioning) ±0.5 m (with GNSS positioning) ±0.1 m (with RTK positioning)
RTK Positioning Accuracy (RTK fix)	1 cm + 1 PPM (horizontal) 1.5 cm + 1 PPM (vertical)

Max Angular Velocity	Pitch: 200°/s Roll: 200°/s Yaw: 150°/s
Max Pitch Angle	N Mode: 35° S Mode: 40° A Mode: 35° T Mode: 20° Emergency Brake: 55°
Max Ascent Speed	8 m/s Measured when flying in a windless environment at sea level, with gimbal camera and lens attached to the aircraft and without other accessories. This data is for reference only.
Max Descent Speed	Vertical: 8 m/s Tilt: 10 m/s Measured when flying in a windless environment at sea level, with gimbal camera and lens attached to the aircraft and without other accessories. This data is for reference only.
Max Horizontal Speed	94 kph Measured when flying in a windless environment at sea level, with gimbal camera and lens attached to the aircraft and without other accessories. This data is for reference only.
Max Service Ceiling Above Sea Level	Standard Propellers: 3800 m High-Altitude Propellers: 7000 m Measured in an environment with light wind with the gimbal camera and lens attached to the aircraft and without other accessories. This data is for reference only.
Max Wind Resistance	Takeoff/land: 12 m/s In-flight: 14 m/s Measured when flying at sea level, with gimbal camera and lens attached to the aircraft and without other accessories. This data is for reference only.
Max Hovering Time	Approx. 25 minutes Measured when hovering in a windless environment at sea level with gimbal camera and lens attached to the aircraft and without other accessories, with landing gear raised, and recording

	4K/24fps H.264 (S35) video until the battery reached 0%. This data is for reference only. Please refer to the actual values in the app.
Max Flight Time	Approx. 28 minutes (landing gear lowered) Approx. 26 minutes (landing gear raised) Measured when flying forward at a constant speed of 36 kph in a windless environment at sea level, with gimbal camera and lens attached to the aircraft and without other accessories, and recording 4K/24fps H.264 (S35) video until the battery reached 0%. This data is for reference only. Please refer to the actual values in the app.
Motor Model	DJI 3511s
Global Navigation Satellite System	GPS + Galileo + BeiDou
Propeller Model	Standard Propellers: DJI 1671 High-Altitude Propellers: DJI 1676
Operating Temperature	-20° to 40° C (-4° to 104° F)
Diagonal Distance	Landing Gear Raised: 695 mm Landing Gear Lowered: 685 mm
Travel Mode Dimensions	Height: 176 mm Width: 709.8 mm Length: 500.5 mm
Class	C3 (EU)

## Gimbal Camera

Sensor	35mm full-frame CMOS
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Max Resolution	Photo: 8192×5456 Video: 8192×4320
Video Resolution	<a href="#">View detailed list</a>
Supported Lenses	DL 18 mm F2.8 ASPH Lens DL 24 mm F2.8 LS ASPH Lens DL 35 mm F2.8 LS ASPH Lens DL 50 mm F2.8 LS ASPH Lens DL 75 mm F1.8 Lens
Photo Format	JPG, DNG
Video Format	MOV, CinemaDNG
Operation Mode	Capture, Record, Playback
Exposure Mode	P, A, S, M
Shutter Type	Electronic shutter
Shutter Speed	8-1/8000 s
White Balance	AWB MWB (2000K-10000K)
ISO Range	Photo ISO: 100-25600  Video EI: 200-6400
Anti-flicker	Capture Mode: Auto, 50 Hz, 60 Hz, OFF

Angular Vibration Range	Hovering: $\pm 0.002^\circ$ Flying: $\pm 0.004^\circ$
Installation Method	Quick release
Mechanical Range	Tilt: -128° to +110° (landing gear lowered) -148° to +90° (landing gear raised) Roll: -90° to +230° Pan: $\pm 330^\circ$
Controllable Range	Tilt (landing gear lowered): Before gimbal tilt limit extension: -90° to +30° After gimbal tilt limit extension: -115° to +100° Tilt (landing gear raised): Before gimbal tilt limit extension: -90° to +30° After gimbal tilt limit extension: -140° to +75° Roll: $\pm 20^\circ$ Pan: $\pm 300^\circ$
Max Control Speed	With DJI RC Plus: Tilt: 120°/s Roll: 180°/s Pan: 270°/s  With DJI Master Wheels: Tilt: 432°/s Roll: 432°/s Pan: 432°/s
Weight	Approx. 516 g (without lens)

## Video Transmission

Video Transmission System	O3 Pro
Live View Quality	FPV Camera: Up to 1080p/60fps Gimbal Camera: Up to 1080p/60fps, 4K/30fps
Max Live Video Bitrate	50 Mbps
Max Transmission Distance	<p>Single Control Mode:            FPV Camera: approx. 15 km (FCC), 8 km (CE/SRRC/MIC)            Gimbal Camera (1080p/60fps live feeds): approx. 13 km (FCC), 7 km (CE/SRRC/MIC)            Gimbal Camera (4K/30fps live feeds): approx. 5 km (FCC), 3 km (CE/SRRC/MIC)</p> <p>Dual-Control Mode:            FPV Camera: approx. 12 km (FCC), 6.4 km (CE/SRRC/MIC)            Gimbal Camera (1080p/60fps live feeds): approx. 11.2 km (FCC), 5.6 km (CE/SRRC/MIC)            Gimbal Camera (4K/30fps live feeds): approx. 4 km (FCC), 2.4 km (CE/SRRC/MIC)</p> <p>Measured in an unobstructed outdoor environment free of interference, with gimbal camera and lens attached to the aircraft and without other accessories. The above data shows the farthest communication range for one-way, non-return flights under each standard. During your flight, please pay attention to reminders in the app.</p>
Lowest Latency	FPV Camera: 90 ms Gimbal Camera: 90 ms The lowest latency of the gimbal camera was measured when recording 4K/60fps ProRes RAW video. The lowest latency of the FPV camera was measured with strong video transmission signals.
Operating Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz (CE: 5.170-5.250 GHz) 5.725-5.850 GHz

	In some countries and regions, the 5.1 and 5.8GHz frequencies are prohibited, or the 5.1GHz frequency is only allowed for indoor use. Please refer to local laws and regulations.
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)

## Battery

Model	TB51 Intelligent Battery
Capacity	4280 mAh
Nominal Voltage	23.1 V
Type	Li-ion
Chemical System	LiCoO <sub>2</sub>
Energy	98.8 Wh
Weight	Approx. 470 g
Operating Temperature	-20° to 40° C (-4° to 104° F)
Charging Temperature	-20° to 40° C (-4° to 104° F) If the temperature of the battery is lower than 10° C (50° F), the battery will trigger an auto-heating function. Charging in a low-temperature environment below 0° C (32° F) may shorten battery life.
Max Charging Power	205.5 W

Charge via Aircraft	Not supported
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## Battery Charging Hub

Input	100-240 V AC, max 8 A
Output	26.4 V, 7.8 A
Total Rated Output	476 W, including 65W PD fast charging of USB-C port
Charging Time	Fast Mode: Approx. 35 minutes to 90% Standard Mode: Approx. 55 minutes to 100% Silent Mode: Approx. 80 minutes to 100% Tested at a room temperature of 25° C (77° F) and in a well-ventilated environment. In Fast mode, each battery pair is charged to 90% in sequence, and then eight batteries are charged together to 100%.
Charging Temperature	-20° to 40° C (-4° to 104° F)
Weight	Approx. 1,680 g

## Memory Card

Memory Card Type	DJI PROSSD 1TB
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## Sensing

Forward	<p>Measurement Range: 1.5-48 m            Effective Sensing Speed: <math>\leq 15</math> m/s            FOV:            Horizontal 90°, Vertical 103° (landing gear raised)            Horizontal 72°, Vertical 103° (landing gear lowered)</p>
Backward	<p>Measurement Range: 1.5-48 m            Effective Sensing Speed: <math>\leq 15</math> m/s            FOV: Horizontal 90°, Vertical 103°</p>
Lateral	<p>Measurement Range: 1.5-42 m            Effective Sensing Speed: <math>\leq 15</math> m/s            FOV: Horizontal 90°, Vertical 85°</p>
Upward	<p>Measurement Range: 0.2-13 m            Effective Sensing Speed: <math>\leq 6</math> m/s            FOV: Front and Back 100°, Left and Right 90°</p>
Downward	<p>Measurement Range: 0.3-18 m            Effective Sensing Speed: <math>\leq 6</math> m/s            FOV: Front and Back 130°, Left and Right 160°</p>
Operating Environment	<p>Forward, Backward, Left, Right, and Upward: surfaces with discernible patterns and adequate lighting (lux <math>&gt;15</math>)            Downward: surfaces with discernible patterns and diffuse reflectivity <math>&gt;20\%</math> (e.g., walls, trees, people); adequate lighting (lux <math>&gt;15</math>)            Obstacle sensing is disabled while the landing gear is in the process of being raised or lowered.</p>
ToF Infrared Sensor Measurement Range	0-10 m

## Remote Controller

Model	RM700B
Operating Time	Built-in Batteries: approx. 3.3 hours Built-in Batteries Plus External Battery: approx. 6 hours
Operating Frequency	2.4000-2.4835 GHz 5.725 GHz-5.850 GHz In some countries and regions, 5.1GHz and 5.8GHz frequencies are prohibited, or the 5.1GHz frequency is only allowed for indoor use. Please refer to local laws and regulations.
Video Output Port	HDMI
Power Supply	Built-in batteries or external battery
Coordinated Operation	Supports dual controls and coordination between multiple operators
Power Consumption	12.5 W
Operating Temperature	-20° to 50 °C (-4° to 122° F)
Storage Temperature	-30° to 45° C (-22° to 113° F) (within one month) -30° to 35° C (-22° to 95° F) (one to three months) -30° to 30° C (-22° to 86° F) (three months to one year)
Battery	Built-in Battery: 3250mAh-7.2V (a set) External Battery: WB37 Intelligent Battery
Wi-Fi Protocol	Wi-Fi 6

Wi-Fi Operating Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz
Wi-Fi Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)
Bluetooth Protocol	Bluetooth 5.1
Bluetooth Operating Frequency	2.4000-2.4835 GHz
Bluetooth Transmitter Power (EIRP)	< 10 dBm

## App

App	DJI Pilot 2
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## FPV Camera

FOV	161°
Resolution	1920×1080@60fps

## Footnotes

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## Others

Guaranteed software updates until	2026/12/31
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