



Technical Description & Performance Limitations of DJI Inspire 2

AIRCRAFT	
Model	T650A
Weight	7.58 lbs (3440 g, including propellers and two batteries, without gimbal and camera)
Max Takeoff Weight	9.37lbs (4250 g)
GPS Hovering Accuracy	Vertical: ± 1.64 feet (0.5 m) or ± 0.33 feet (0.1 m, Downward Vision System enabled) Horizontal: ± 4.92 feet (1.5 m) or ± 0.98 feet (0.3 m, Downward Vision System enabled)
Max Angular Velocity	Pitch: 300°/s Yaw: 150°/s
Max Tilt Angle	P-mode: 35° (Forward Vision System enabled: 25°) A-mode: 35° S-mode: 40°

GIMBAL	
Model	ZENMUSE X7(optional) ZENMUSE X5S(optional) ZENMUSE X4S(optional)
Angular Vibration Range	$\pm 0.01^\circ$
Controllable Range	Pitch: -130° to +40° Roll: $\pm 20^\circ$ Pan: $\pm 320^\circ$
Max Controllable Speed	Pitch: 180°/s Roll: 180°/s Pan: 270°/s
Interface Type	Detachable



Mechanical Range	Pitch: -140° to+50° Roll: -50° to+90° Pan: ±330°
CHARGER	
Model	IN2C180
Voltage	26.1 V
Rated Power	180 W
CHARGING HUB	
Model	IN2CH
Input Voltage	26.1 V
Input Current	6.9 A
FORWARD VISION SYSTEM	
Obstacle Sensing Range	2.3-98.4 feet (0.7-30 m)
FOV	Horizontal: 60°; Vertical: 54°
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
APP	
Name	DJI GO 4
REMOTE CONTROLLER	
Model	GL6D10A
Operating Frequency	2.400-2.483 GHz 5.725-5.850 GHz
Max Transmitting Distance (unobstructed, free of interference)	2.4 GHz: FCC: 4.3 miles (7 km); CE: 2.2 miles (3.5 km); SRRC: 2.5 miles (4 km); MIC: 2.5 miles (4 km); 5.8 GHz: FCC: 4.3 miles (7 km); CE: 1.2 miles (2 km); SRRC: 3.1 miles (5 km); MIC: - ;
EIRP	2.4 GHz: FCC: 26 dBm;



	CE: 17 dBm; SRRC: 20 dBm; MIC: 17dBm; 5.8 GHz: FCC: 28 dBm; CE:14 dBm; SRRC: 20 dBm; MIC: - ;
Video Output Ports	USB, HDMI
Power Supply	Built-in battery
Charging	DJI charger
Dual User Capability	Host-and-Slave connection
Mobile Device Holder	Tablet or Smart Phone
Max Mobile Device Width	170 mm
Output Power	9 W (Without supplying power to smart device)
Operating Temperature	-4° to 104° F (-20° to 40° C)
Storage Temperature	Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)
Charging Temperature	32° to 104° F (0° to 40° C)
Battery	6000mAh 2S LiPo
USB Supply Power	iOS: 1 A @ 5.2 V (Max); Android: 1.5 A @ 5.2 V (Max)

BATTERY (STANDARD)

Name	Intelligent Flight Battery
Model	TB50
Capacity	4280 mAh
Voltage	22.8 V
Battery Type	LiPo 6S
Energy	97.58 Wh
Net Weight	515 g
Charging Temperature	41° to 104° F (5° to 40° C)



Operating Temperature	-4° to 104° F (-20° to 40° C)
Max Charging Power	180 W
Storage Temperature	Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)
DOWNWARD VISION SYSTEM	
Velocity Range	<32.8 ft/s (10 m/s) at height of 6.56 feet (2 m)
Altitude Range	<32.8 feet (10 m)
Operating Range	<32.8 feet (10 m)
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Ultrasonic Sensor Operating Range	0.33-16.4 feet (10-500 cm)
Ultrasonic Sensor Operating Environment	Non-absorbing material, rigid surface (thick indoor carpeting will reduce performance)
UPWARD INFRARED SENSOR	
Obstacle Sensing Range	0-16.4 feet (0-5 m)
FOV	±5°
Operating Environment	Large-size non-reflective obstacles