

INSPIRE 2SPECS

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°
Max Ascent Speed	P-mode/A-mode: 16.4 ft/s (5 m/s) S-mode: 19.7 ft/s (6 m/s)
Max Descent Speed	Vertical: 13.1 ft/s (4 m/s) Tilt: 13.1-29.5 ft/s (4-9 m/s)
Max Takeoff Sea Level	1.55 mi (2500 m) 3.1 mi (5000 m with specially-designed propeller)
Max Wind Speed Resistance	10 m/s
Max Flight Time	Approx. 27min (with Zenmuse X4S) Approx. 23min (with Zenmuse X7) (Hovering at sea level with no wind.)
Motor Model	DJI 3512
Propeller Model	DJI 1550T
Indoor Hovering	Enabled by default
Operating Temperature	-4° to 104° F (-20° to 40° C)
Diagonal Distance(propeller excluded)	23.8 inch (605 mm, Landing Mode)
Max Speed	58 mph or 94 kph(Sport mode)

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

GIMBAL

Model	ZENMUUSE X7(optional) ZENMUUSE X5S(optional) ZENMUUSE X4S(optional)
Angular Vibration Range	±0.01°
Controllable Range	Pitch: -130° to+40°

	Roll: $\pm 20^\circ$ Pan: $\pm 320^\circ$
Max Controllable Speed	Pitch: $180^\circ /s$ Roll: $180^\circ /s$ Pan: $270^\circ /s$
Interface Type	Detachable
Mechanical Range	Pitch: -140° to $+50^\circ$ Roll: -50° to $+90^\circ$ Pan: $\pm 330^\circ$

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)