

INSPIRE 2 SPECS

Core Specs

23-27 MINS

Flight time

7 KM

Control range

94 KM/H

Speed

6K/5.2K

Video resolution

30 M

Sensory range

1080 P

Live view

Specifications

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)

Gimbal

Model

ZENMUSE X7(optional)

ZENMUSE X5S(optional)

ZENMUSE X4S(optional)

Angular Vibration Range

±0.01°

Controllable Range

Pitch: -130° to+40°

Roll: ±20°

Pan: ±320°

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

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)

Charging Hub

Model

IN2CH

Input Voltage

26.1 V

Input Current

6.9 A

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)

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)

Upward Infrared Sensor

Obstacle Sensing Range

0-16.4 feet (0-5 m)

FOV

±5°

Operating Environment

Large-size non-reflective obstacles

APP

Name

DJI GO 4