

DJI Inspire 1 v2 Specifications

Aircraft

Model	T600
Weight	6.27 lbs (2845 g, including propellers and battery, without gimbal and camera) 6.74 lbs (3060 g, including propellers, battery and Zenmuse X3)
GPS Hovering Accuracy	Vertical: ± 1.64 feet (0.5 m) Horizontal: ± 8.20 feet (2.5 m)
Max Angular Velocity	Pitch: $300^\circ/\text{s}$ Yaw: $150^\circ/\text{s}$
Max Tilt Angle	35°
Max Ascent Speed	16.4 ft/s (5 m/s)
Max Descent Speed	13.1 ft/s (4 m/s)
Max Speed	49 mph or 79 kph (ATTI mode, no wind)
Max Takeoff Sea Level	1.55 mi (2500 m) 2.8 mi (4500 m with specially-designed propeller)
Max Wind Speed Resistance	10 m/s
Max Flight Time	Approx. 18 min
Motor Model	DJI 3510H
Propeller Model	DJI 1345T
Indoor Hovering	Enabled by default
Operating Temperature	14° to 104° F (-10° to 40° C)
Diagonal Distance(propeller excluded)	22.8 inch (581 mm, Landing Mode)
Max Takeoff Weight	7.71 lbs(3500 g)

Remote Controller

Model	GL658A
Operating Frequency	922.7-927.7 MHz (Japan Only) 5.725-5.825 GHz 2.400-2.483 GHz
Max Transmitting Distance(unobstructed, free of interference)	Up to 5 km or 3.1 miles when FCC compliant Up to 3.5 km or 2.1 miles when CE compliant
EIRP	10dBm@900m, 13dBm@5.8G, 20dBm@2.4G
Video Output Ports	USB, mini-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	170mm
Output Power	9 W
Operating Temperature	14° to 104° F (-10° 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

Charger

Model	A14-100P1A
Voltage	26.3 V
Rated Power	100 W

Battery (Optional)

Name	Intelligent Flight Battery
Model	TB48
Capacity	5700 mAh
Voltage	22.8 V
Battery Type	LiPo 6S
Energy	129.96 Wh
Net Weight	670 g

Operating Temperature Range 14° to 104° F (-10° to 40° C)

Storage Temperature Range 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 Range 32° to 104° F (0° to 40° C)

Max Charging Power 180 W

APP

Name DJI GO

Mobile Device

System iOS 8.0 or later, Android 4.1.2 or later

Requirements

iOS: iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 6s Plus, iPhone 7, iPhone 7 Plus, iPod touch 6, iPad Pro, iPad Air, iPad Air Wi-Fi + Cellular, iPad mini 2, iPad mini 2 Wi-Fi + Cellular, iPad Air 2, iPad Air 2 Wi-Fi + Cellular, iPad mini 3, iPad mini 3 Wi-Fi + Cellular, iPad mini 4, and iPad mini 4 Wi-Fi + Cellular.

Supported Mobile This app is optimized for iPhone 7 and iPhone 7 Plus.

Devices Android: Samsung tabs 705c, Samsung S6, Samsung S5, Samsung NOTE4, Samsung NOTE3, Google Nexus 9, Google Nexus 7 II, Ascend Mate7, Huawei Mate 8, Nubia Z7 mini, SONY Xperia Z3, MI 3, MI PAD.

*Support for additional devices available as testing and development continues.

Gimbal

Model	ZENMUSE X3 ZENMUSE X5(optional) ZENMUSE X5R(optional) ZENMUSE XT(optional) ZENMUSE Z3(optional)
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Angular Vibration Range $\pm 0.03^\circ$

Interface Type	Detachable
Controllable Range	Pitch: -90° to $+30^\circ$ Pan: $\pm 320^\circ$
Mechanical Range	Pitch: -125° to $+45^\circ$ Pan: $\pm 330^\circ$
Max Controllable Speed	Pitch: $120^\circ/s$ Pan: $180^\circ/s$

Camera

Name	X3
Model	FC350
Total Pixels	12.76M
Effective Pixels	12.4M
Image Max Size	4000x3000
ISO Range	100-3200 (video) 100-1600 (photo)
Electronic Shutter Speed	8s — 1/8000s
FOV (Field of View)	94°
CMOS	1/2.3" CMOS
Lens	20mm (35mm format equivalent)f/2.8 focus at ∞ 9 Elements in 9 groups Anti-distortion
Still Photography Modes	Single shoot Burst shooting: 3/5/7 frames

Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7EV Bias
Time-lapse

Video Recording Modes UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30
FHD: 1920x1080p24/25/30/48/50/60
HD: 1280x720p24/25/30/48/50/60

Max Bitrate of Video Storage 60 Mbps

Supported File Formats FAT32/exFAT
Photo: JPEG, DNG
Video: MP4/MOV (MPEG-4 AVC/H.264)

Supported SD Card Types Micro SD
Max capacity: 64 GB. Class 10 or UHS-1 rating required.

Operating Temperature Range 0° to 40° C

Battery (Standard)

Name	Intelligent Flight Battery
Model	TB47
Capacity	4500 mAh
Voltage	22.2 V
Battery Type	LiPo 6S
Energy	99.9 Wh
Net Weight	570 g

Operating Temperature 14° to 104° F (-10° 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)

Max Charging Power 180 W

Downward Vision System

Velocity Range	<26.2 ft/s (8 m/s) at height of 6.56 feet (2 m)
Altitude Range	5-500 cm
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Operating Range	<9.8 feet (3 m)
Ultrasonic Sensor Operating Range	0.17-16.4 feet (5-500 cm)
Ultrasonic Sensor Operating Environment	Non-absorbing material, rigid surface (thick indoor carpeting will reduce performance)



The Inspire 1 has been certified by Apple in their Works with iMovie and Works with Final Cut Pro X programs, so you can edit 4K without worry whether you are a professional or shooting for fun.

IR CAMERA General

Model Zenmuse XT
Dimensions 103 mm x 74 mm x 102 mm
Weight 270 g

Camera

Thermal Imager	Uncooled VOx Microbolometer
FPA/Digital Video Display Formats	<ul style="list-style-type: none"> • 640 × 512 • 336 × 256
Analog Video Display Formats	720 × 480 (NTSC); 720 × 576 (PAL)
Pixel Pitch	17 μm
Spectral Band	7.5 - 13.5 μm
Full Frame Rates	<ul style="list-style-type: none"> • 640 × 512 : 30 Hz (NTSC) 25 Hz (PAL) • 336 × 256 : 30 Hz (NTSC) 25 Hz (PAL)
Exportable Frame Rates	7.5 Hz NTSC; 8.3 Hz PAL
Sensitivity (NEdT)	<50 mK at f/1.0

Scene Range (High Gain)	<ul style="list-style-type: none"> • 640 × 512 : -13° to 275°F (-25° to 135°C) • 336 × 256 : -13° to 212°F (-25° to 100°C)
Scene Range (Low Gain)	-40° to 1022°F (-40° to 550°C)
Spot Meter	Temperatures measured in central 4×4
File Storage	Micro SD Card
Photo Format	JPEG, TIFF
Video Format	MP4

Environmental

Operating Temperature Range	14° to 104°F (-10° to 40 °C)
Non-Operating Temperature Range	-22° to 158°F (-30° to 70 °C)
Temperature Shock	5 °C/min
Humidity	5% to 95%

Gimbal

Angular Vibration Range	±0.03°
Mount	Detachable
Controllable Range	Tilt : +35° to -90°; Pan : ±320°; Roll : ±15°
Mechanical Range	Tilt : +45° to -135° Pan : ±320° Roll : ±45°
Max Controllable Speed	120°/s

Image Processing & Display Controls

NTSC/PAL (field switchable)	yes
Image Optimization	yes
Digital Detail Enhancement	yes
Polarity Control (black hot/white hot)	yes
Color & Monochrome Palettes (LUTs)	yes
Digital Zoom	640 × 512 : 2x, 4x, 8x
	336 × 256 : 2x, 4x

SENSOR

Size	6.17 x 4.55 mm
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Type CMOS

Effective Pixels 12.4M

ISO Range 100~3200

MAX-PIXELS

Max-Pixels 12.4M

Burst Shooting Full pixels 7fps

Shutter Speed 8~1/8000 sec

EV Range -3~+3, 1/3

AEB Support

Interval Support

Time Lapsed Support, 5/7/10/20/30 sec

DNG Support

MISC.

Exposure P/S/M

AE Metering Auto/spot metering

AE Lock Support

WB auto/default/manual

Focus Mode Focus at ∞

Focus Mode N/A

AF AUX N/A

AE Lock N/A

Focus Peaking N/A

Zebra Support

Adjustment Support

Style sRGB,Color looks, LOG

Enhancement HDR/Video DR

Software N/A

LENS

Optics 20mm (35mm format equivalent)f/2.8 focus at ∞

Iris F/2.8

Diagonal FOV 94 degree

Equivalent 20mm

Distortion 0.90%

Focus Range Infinite

Auto-Focus N/A

VIDEO

Resolution 4096x2160(25/24P)
3840x2160(30/25P)
1920x1080(60/50/48/30/25/24P)
1280x720(60/50/48/30/25/24P)

Encoder MPEG4/AVC/H.264

Max-Bitrate 60Mbps@4096x2160(25/24P)
60Mbps@3840x2160(30/25P)
45Mbps@1920x1080(60/50/48/30/25/24P)
15Mbps@1280x720(60/50/48/30/25/24P)

Format MP4/MOV

Storage Micro-SD Class 10

Video NR Support

Stabilizer Support

