

## DJI Inspire 1 RAW Quadcopter with Zenmuse X5R 4K Camera and 3-Axis Gimbal



Rating: 3.0

**Price:**

Variant price modifier:

Price with discount:

Salesprice with discount:

USD 2,699.00

Discount:



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Manufacturer: [Dji](#)

Description

### Product Highlights

- 4K MFT Camera with 3-Axis Gimbal
- 15mm f/1.7 Lens Included

- Up to 1.2 Mile Radio Range
- GPS-Based Stabilization System
- Optical Flow Sensor for Indoor Flying
- DJI Lightbridge System Integrated
- Live 720p HD Monitoring with Lightbridge
- Retractable Carbon Fiber Arms
- Unobstructed 360° Shooting
- Second Transmitter for Gimbal Control

## Performance

Hovering Accuracy (GPS Mode)

Vertical: 1.6' / 0.5 m

Horizontal: 8.2' / 2.5 m

Maximum Angular Velocity

Pitch: 300°/s

Yaw: 150°/s

Maximum Tilt Angle

35°/s

Maximum Ascent/Descent Speed

Ascent: 16.4 fps / 5 m/s

Descent: 13.1 fps / 4 m/s

Maximum Speed

72.2 fps / 22 m/s (Attitude mode; no wind)

Maximum Flight Altitude

14,764' / 4,500 m

Maximum Wind Speed Resistance

32.8 fps / 10 m/s

Maximum Flight Time

Up to 18 minutes

## Camera

Model

Name: Zenmuse X5R

Lens Mount

MFT (Micro Four Thirds)

Photo Resolution

16 MP (4608 x 3456)

Video Resolution

DCI 4K (4096 x 2160): 24p, 25p

UHD 4K (3840 x 2160): 25p, 30p

FHD (1920 x 1080): 24p, 25p, 30p, 48p, 50p, 60p

Field of view (FOV)

15 mm f1.7 ?72° (included)

12 mm f2.0?84° (available separately)

Photo Modes

Single shot

Burst: 3, 5, or 7 frames

Auto Exposure (AE) Bracketing: 3/5 bracketed frames at 0.7 EV bias

Time-Lapse: 3, 5, 7, 10, 20, 30, or 60 second intervals

ISO Range

100 to 25600

Shutter Speed

8 to 1/8000 second

Video Bitrate

Up to 2.4 Gbps (1.7 Gbps average)

Supported File Types

Photo: JPEG, DNG RAW

Video: MP4, MOV (MPEG-4/AVC/H.264F)

RAW Video: CinemaDNG RAW

File System: FAT32 / exFAT

Recording Media

Class 10 / UHS-1 or better microSD (up to 64 GB)

512 GB SSD (for RAW video recording)

Power Consumption

Static: 19.5 W

Peak: 25 W

Operating Temperature

32 to 104°F / 0 to 40°C

Dimensions (H x W x D)

5.4 x 4.9 x 5.2" / 136 x 125 x 131 mm

Weight

With Standard Lens, Balancing Ring, Lens Hood, and microSD card:

1.3 lb / 583 g

## Lens

Model

DJI MFT 15 mm f/1.7 ASPH

Mount

MFT (Micro Four Thirds)

Focal Length

15 mm

35 mm Equivalent: 30 mm

Aperture Range

f/1.7 to f/16

Focus Range

0.7' (0.2 m) to ?

Field of View

72°

Elements

9 elements in 7 groups (3 aspherical elements)

Aperture

7 diaphragm blades / circular aperture diaphragm

Dimensions

Maximum Diameter: 2.3" / 57.5 mm

Length: 1.4" / 36 mm

Weight

4.1 oz / 115 g

## Gimbal

Model

Zenmuse X5R

Mount

Detachable

Number of Axes

3-axis

Control Angle Accuracy

±0.02°

Control Range

Pitch: -90° to +30°

Pan: ±320°

Manual Control Speed	Pitch: Up to 120°/second Pan: Up to 180°/second
Flight Controller	Enabled by default
Indoor Hovering	Frequency: 50 Hz
Vision Positioning	Velocity Range: Below 26.2 fps / 8 m/s (6.6' / 2 m above the ground) Altitude Range: 2 to 196.8" / 5 to 500 cm
	Operating Environment: Rich pattern surface with adequate lighting (> 15 lux) Operating Range: 0 to 8.2' / 0 to 2.5 m
Motor	
Model	DJI 3510
Propeller	
Model	DJI 1345
Transmitter	
Operating Frequency	Transmitter to Transmitter: 5.728 to 5.850 GHz Transmitter to Aircraft: 2.400 to 2.483 GHz Line-of-Sight: Up to 6561.7' / 2000 m 1% PER:-93 dBm 10 dBm at 900 MHz; 8 dBm at 5.8 GHz; 20 dBm at 2.4 GHz 1 x USB type A female (for connecting mobile device) 1 x Micro-USB for firmware updates 1 x Mini-HDMI video output for FPV 1 x CAN-Bus port (for future accessory)
Range	Host-and-slave connection
Receive Sensitivity	Tablet or smartphone
EIRP	9 W
Connectivity	1.2 A at 7.4 VDC 6S LiPo; 6000 mAh Less than 3 Months: -4 to 113°F / -20 to 45°C More than Three Months: 72 to 82°F / 22 to 28°C 72 to 82°F / 22 to 28°C -4°F / -20°C Device Width: 2 to 6.7" / 5 to 17 cm
Dual User Capability	
Mobile Device Holder	
Output Power	
Power Requirements	
Battery	
Charging Temperature	
Storage Temperature	
Mobile Device Holder	
Flight Battery	
Model	TB47
Voltage	6S LiPo; 22.2 VDC
Capacity	4500 mAh / 99.9 Wh
Maximum Charging Power	180 W
Operating Temperature	-4 to 104°F / -20 to 40°C
Storage Temperature	-4 to 113°F / -20 to 45°C 72 to 82°F / 22 to 28°C
Charging Temperature	32 to 104°F / 0 to 40°C
Weight	1.3 lb / 570 g
Charger	
Model	A14-100P1A
Voltage	26.3 VDC
Output Power	100 W
Mobile App	
System	iOS: 7.1 or later
Requirements	Android: 4.1.2 or later
	<b>Note:</b> The device must be connected to a transmitter via USB (wireless linking is not supporting). Additionally, waypoint navigation requires an active Internet connection in order to load the maps
General	
Model	Aircraft: T600
Operating Temperature	14 to 104°F / -10 to 40°C
Dimensions	<b>Diagonal Distance:</b>

Weight

Landing Gear Lowered: 22" / 559 mm  
Landing Gear Raised: 22.9" / 581 mm

**Overall Dimensions:**  
17.2 x 17.8 x 11.9" / 438 x 451 x 301 mm  
Not specified by manufacturer