

# Specs

## General

<b>Product Name</b>	Zenmuse H30 Series
<b>Dimensions</b>	170×145×165 mm (L×W×H)
<b>Weight</b>	920±5 g
<b>Power</b>	H30: 26 W H30T: 28 W
<b>Ingress Protection Rating</b>	IP54  <small>Under controlled laboratory conditions, it can achieve an IP54 protection rating by IEC60529 standards. The IP rating is not permanently effective and may decrease due to product wear and tear.</small>
<b>Supported Aircraft</b>	Matrice 300 RTK (requires DJI RC Plus) Matrice 350 RTK

## Environment

<b>Operating Temperature</b>	-20° to 50° C (-4° to 122° F)
<b>Storage Temperature</b>	-20° to 60° C (-4° to 140° F)

## Gimbal

<b>Stabilization System</b>	3-axis (tilt, roll, pan)
<b>Angular Vibration Range</b>	Hover: ±0.002° Flight: ±0.004°
<b>Mounting</b>	Detachable DJI SKYPORT
<b>Mechanical Range</b>	Tilt: -132.5° to +73° Roll: ±60° Pan: ±328° (Structural limit, not controllable range)
<b>Controllable Range</b>	Tilt: -120° to +60° Pan: ±320°
<b>Operation Mode</b>	Follow/Free/Re-center

## Zoom Camera

Sensor	1/1.8-inch CMOS, Effective Pixels: 40 MP
Lens	Actual Focal Length: 7.1-172 mm (Equivalent focal length: 33.4-809.3 mm) Aperture: f/1.6-f/5.2 DFOV: 66.7°-2.9°
Focus Mode	MF, AFC, AFS
Exposure Mode	Manual, Auto
Exposure Compensation	±3.0 (1/3 increments)
Metering Mode	Spot Metering, Average Metering
AE Lock	Supported
Electronic Shutter Speed	1/8000-2 s
ISO Range	Single Shot: 100-25600 Night Scene: 100-819200
Video Resolution	Single Shot: 3840×2160@30fps, 1920×1080@30fps Night Scene: 1920×1080@25fps, 1920×1080@15fps, 1920×1080@5fps
Video Format	MP4
Video Subtitles	Supported
Video Codec and Bit Rate Strategy	H.264, H.265 CBR, VBR
Max Photo Size	7328×5496, 3664×2748
Photo Format	JPG

## Wide-Angle Camera

Sensor	1/1.3-inch CMOS, Effective Pixels: 48 MP
Lens	Actual Focal Length: 6.72 mm (Equivalent focal length: 24 mm) Aperture: f/1.7 DFOV: 82.1°
Focus Mode	MF, AFC, AFS
Exposure Mode	Manual, Auto
Exposure Compensation	±3.0 (1/3 increments)
Metering Mode	Spot Metering, Average Metering
AE Lock	Supported
Electronic Shutter Speed	1/8000-2 s

ISO Range	Single Shot: 100-25600 Night Scene: 100-409600
Video Resolution	Single Shot: 3840×2160@30fps, 1920×1080@30fps Night Scene: 1920×1080@25fps, 1920×1080@15fps, 1920×1080@5fps
Video Format	MP4
Video Subtitles	Supported
Video Codec and Bit Rate Strategy	H.264, H.265 CBR, VBR
Max Photo Size	8064×6048, 4032×3024
Photo Format	JPG

## Infrared Thermal Camera (H30T)

Thermal Imager	Uncooled VOx Microbolometer
Lens	Focal Length: 24 mm (equivalent focal length: 52 mm) Aperture: f/0.95 DFOV: 45.2°
Digital Zoom Equivalent	32×
Video Resolution	1280×1024@30fps
Video Format	MP4
Video Subtitles	Supported
Video Codec and Bit Rate Strategy	H264, H265 CBR, VBR
Photo Resolution	1280×1024
Photo Format	R-JPEG
Pixel Pitch	12 μm
Spectral Band	8-14 μm
Noise Equivalent Temperature Difference (NETD)	≤ 50 mk@f/1.0
Temperature Measurement Method	Spot Measurement, Area Measurement, Center Point Temperature Measurement
Temperature Measurement Range	High Gain: -20° to 150° C (-4° to 302° F), -20° to 450° C (-4° to 842° F) (With Infrared Density Filter) Low Gain: 0° to 600° C (32° to 1112° F), 0° to 1600° C (32° to 2912° F) (With Infrared Density Filter)
Temperature Alert	Supported
Sun Burn Protection	Supported
FFC	Auto, Manual

Palette

White Hot, Black Hot, Tint, Iron Red, Rainbow 1, Rainbow 2, Medical, Arctic, Fulgurite, Hot Iron

## Laser Range Finder

Wavelength	905 nm
Measurement Range	3-3000 m Range for Common Objects: Grasslands 2000 m, woodlands 1900 m, road surfaces 1700 m*  The measurement range may vary based on the material and shape of the tested object as well as the impact of gimbal angle, environmental light weather conditions such as rain or fog. If a laser pulse hits multiple targets, its energy is dispersed, which may reduce the measurable distance. * Test conditions: Flat surface subject, subject size exceeding the laser beam diameter, atmospheric visibility of 23 km (shorter range in clear conditions compared with overcast), laser impinges at an oblique angle (with an angle of incidence of approx. 0.2 radians).
Measurement Accuracy	≤ 500 m: $\pm(0.2 \text{ m} + \text{measurement distance} \times 0.15\%)$ > 500 m: $\pm 1.0 \text{ m}$
Laser Spot Size	@100 m: approx. 50×450 mm @1000 m: approx. 450×4500 mm
Safety Regulation Level	Class 1
Accessible Emission Limit (AEL)	260 nJ
Reference Aperture	18 mm
Max Laser Pulse Emission Power Within 5 Nanoseconds	52 W

## NIR Auxiliary Light

Wavelength	850 nm
FOV	4.6±0.6° (Round)
Safety Regulation Level	Class 1
Illumination Range	@100 m: Approx. 8m diameter circle

## Special Features

Hybrid Optical Zoom	34×
Max Zoom	400×
Link Zoom	Supported
Click to Aim	Supported
High-Res Grid Photo	Supported
Night Scene	Supported
Timestamp	Supported

Smart Capture	Supported
Video Pre-Recording	Supported
UHR Infrared Image	Supported

## Data Storage

**Supported microSD Cards** U3/Class10/V30 or above is required, or use a memory card from the recommended list.

**Supported File System** exFAT

**Recommended microSD Cards** Lexar 1066x V30 A2 64GB/128GB/256GB/512GB microSDXC  
Kingston CANVAS GO! Plus V30 A2 64GB/128GB/256GB/512GB microSDXC

Zenmuse H30 supports the Security Code function. Go to Data and Privacy in DJI Pilot 2 and set the code to encrypt the microSD card installed on the camera. Download the DJI Decrypt Tool from the DJI official website to decrypt the microSD card on a Windows computer and access the card content.

## Post-Processing Software

**Mapping Software** DJI Terra, DJI FlightHub 2

**Infrared Analysis Software** DJI Thermal Analysis Tool 3

Product Categories	Where to Buy	Fly Safe	Explore	Community
Consumer	DJI Online Store	Fly Safe	Newsroom	SkyPixel
Professional	Flagship Stores	DJI Flying Tips	Events	DJI Forum
Enterprise	DJI-Operated Stores	Support	Buying Guides	Developer
Components	Retail Stores	Product Support	STEAM Education	Subscribe
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DJI Care	Agricultural Drone Dealer	Help Center	DJI Camera Drones	<input type="text" value="Your email address"/>
Osmo Shield	Pro Retailers	After-Sales Service Policies	DJI Affiliate Program	
DJI Care Refresh	DJI Store App	Download Center		
	Cooperation	Security and Privacy		
	Become a Dealer			
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