DJI ENTERPRISE

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Zenmuse H30 Series Specs

General

Product Name	Zenmuse H30 Series
Dimensions	170×145×165 mm (L×W×H)
Weight	920±5 g
Power	H30: 26 W H30T: 28 W
Ingress Protection Rating	IP54 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.
Supported Aircraft	Matrice 300 RTK (requires DJI RC Plus) Matrice 350 RTK

Environment

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

Gimbal

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

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°

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, and 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: ±(0.2 m+measurement distance×0.15%) > 500 m: ±1.0 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)

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