



ZENMUSE H30 SERIES

Unparalleled Vision, Day or Night

Employing cutting-edge intelligent algorithms, the Zenmuse H30 revolutionizes perception and imaging standards, transcending the limitations of day and night vision.



GENERAL

Dimensions:	170 × 145 × 165 mm	Weight:	920 ± 5 g
Environmental Protection:	IP54	Power:	26 W (H30) 28W (H30T)
Supported Aircraft:	Matrice 300 / 350 / 400 RTK		

ENVIRONMENT

Operating Temperature:	-20° to 50° C	Storage Temperature:	-20° to 60° C
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GIMBAL

Stabilization System:	3-axis (tilt, roll, pan)	Mount:	Detachable DJI SKYPORT
Angular Vibration Range:	Hover: ±0.002° Flight: ±0.004°	Mechanical Range:	Pitch : -132.5° to +73° Roll: ±60° Pan: ±328°
Controllable Range:	Tilt: -120° to +60° Pan: ±320°	Operation Mode:	Follow/Free/Re-center

ZOOM CAMERA

Sensor:	1/1.8" CMOS	Effective Pixels:	40 MP
Lens		Focus Mode:	MF, AFC, AFS
Focal length:	7.1-172 mm (Equivalent: 33.4-809.3 mm)	Exposure Mode:	Manual, Auto
Aperture:	f/1.6-f/5.2	Exposure Compensation:	±3.0 (1/3 increments)
DFOV:	66.7°-2.9°	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 Format:	MP4
Max Photo Size:	7328×5496 3664×2748	Video Subtitles:	Supported
		Photo Format:	JPG
Video Resolution			
Single Shot:	3840×2160@30fps 1920×1080@30fps		
Night Scene:	1920×1080@25fps 1920×1080@15fps 1920×1080@5fps		

WIDE-ANGLE CAMERA

Sensor:	1/1.3-inch CMOS	Effective Pixels:	48 MP
Lens		Focus Mode:	MF, AFC, AFS
Focal length:	6.72 mm (Equivalent focal length: 24 mm)	Exposure Mode:	Manual, Auto
Aperture:	f/1.7	Exposure Compensation:	±3.0 (1/3 increments)
DFOV:	82.1°	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 Format:	MP4
Max Photo Size:	8064×6048, 4032×3024	Video Subtitles:	Supported
		Photo Format:	JPG

Video Codec and Bit Rate Strategy: H.264, H.265 | CBR, VBR

Video Resolution:	Single Shot:	3840×2160@30fps 1920×1080@30fps
	Night Scene:	1920×1080@25fps 1920×1080@15fps 1920×1080@5fps

INFRARED THERMAL CAMERA (Zemuse H30T)

Thermal Imager:	Uncooled VOx Microbolometer	Digital Zoom Equivalent:	32x
Lens		Video Resolution:	1280×1024@30fps
Focal length:	24 mm (equivalent focal length: 52 mm)	Video Format:	MP4
Aperture:	f/0.95	Video Subtitles:	Supported
DFOV:	45.2°	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, Area and Centre 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)		
Palette:	White Hot, Black Hot, Tint, Iron Red, Rainbow 1, Rainbow 2, Medical, Arctic, Fulgurite, Hot Iron	Temperature Alert:	Supported
		Sun Burn Protection:	Supported
		FFC:	Auto, Manual

LASER RANGEFINDER

Wave length:	905 nm		
Measurement range:	3-3000 m		
	Range for Common Objects: Grasslands 2000 m, woodlands 1900 m, road surfaces 1700 m		
Measurement accuracy:	≤ 500 m: ±(0.2 m + measurement distance×0.15%) ≤ 500 m: ±(0.2 m+measurement distance×0.15%)		
Laser Spot Size:	@100 m: approx. 50×450 mm @1000 m: approx. 450×4500 mm	Safety Regulation Level:	Class 1
		Reference Aperture:	18 mm
Accessible Emission Limit (AEL):	260 nJ		
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 SD Card:	U3/Class10/V30 or above is required, or use a memory card from the recommended list.
Supported File Systems:	exFAT
Recommended Micro SD Cards:	SanDisk Extreme Pro V30 A1 32GB microSDHC Lexar 1066x V30 A2 64GB/128GB/256GB/512GB microSDXC Kingston CANVAS GO! Plus V30 A2 64GB/128GB/256GB/512GB microSDXC