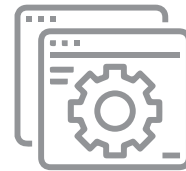




dji

ZENMUSE H20T



FEATURES

Multi-sensor payloads that bring a whole new meaning to mission efficiency. The unique intelligence and integrated design provide unprecedented aerial imaging capabilities for a range of commercial drone applications. Welcome to DJI's first hybrid sensor solution – the Zenmuse H20 Series.

Basic Parameters

Weight	828±5 g
Dimensions	167×135×161 mm
Ingress Protection Rating	IP44
Operating Temperature	-20° to 50° C (Temperature Measurement is only available between -10° to 50° C)
Storage Temperature	-20° to 60° C
Laser Safety	Class 1M (IEC 60825-1:2014)
Supported Aircraft	Matrice 300 RTK

Gimbal

Angular Vibration Range	±0.01°
Mount	Detachable
Controllable Range	Pitch: -120° to +30° Yaw: ±320°
Mechanical Range	Pitch: -132.5° to +42.5° Yaw: ±330° Roll: -90° to +60°

Zoom Camera

Sensor	1/1.7" CMOS, 20 MP
Lens	DFOV: 66.6°-4° Focal length: 6.83-119.94 mm (equivalent: 31.7-556.2 mm) Aperture: f/2.8-f/11 (normal), f/1.6-f/11 (night scene) Focus: 1 m to ∞ (wide), 8 m to ∞ (telephoto)
Focus Mode	MF/AF-C/AF-S
Exposure Mode	Auto, Manual
Exposure Compensation	±3.0 (1/3 increments)
Metering Mode	Spot metering, Center-weighted metering
AE LOCK	Supported
Electronic Shutter Speed	1 ~ 1/8000 s
ISO Range	Video: 100 - 25600 Photo: 100 - 25600
Video Resolution	3840x2160@30fps, 1920x1080@30fps
Video Format	MP4
Video subtitles	Supported
Photo Size	5184 × 3888
Photo Format	JPEG

Wide Camera

Sensor	1/2.3" CMOS, 12 MP
Lens	DFOV: 82.9° Focal length: 4.5 mm (equivalent: 24 mm) Aperture: f/2.8 Focus: 1 m to ∞
Exposure Mode	Auto
Exposure Compensation	±3.0 (1/3 increments)
Metering Mode	Spot metering, Center-weighted metering
AE LOCK	Supported
Shutter Speed	1 ~ 1/8000
ISO Range	Video: 100 - 25600, Photo: 100 - 25600
Video Resolution	1920×1080@30fps
Video Format	MP4
Video subtitles	Supported
Photo Size	4056 x 3040
Photo Format	JPEG

Thermal Camera

Sensor	Uncooled VOx Microbolometer
Lens	DFOV: 40.6° Focal length: 13.5 mm (equivalent: 58 mm) Aperture: f/1.0 Focus: 5 m to ∞
Digital Zoom	1x, 2x, 4x, 8x
Video Resolution	640×512 @ 30 Hz
Video Format	MP4
Image Resolution	640×512
Image Format	R-JPEG (16 bit)
Pixel Pitch	12 μm
Spectral Band	8-14 μm
Sensitivity (NETD)	≤50 mK @ f/1.0
Temperature Measurement Method	Spot Meter, Area Measurement
Scene Range	-40 °C to 150 °C (High Gain) -40 °C to 550 °C (Low Gain)
Temperature alert	JPEG
FFC	Auto/ manual
Palette	White hot/Fulgurite/Iron Red/Hot Iron/Medical/ Arctic/Rainbow 1/Rainbow 2/Tint/Black Hot

Laser Rangefinder

Wave length	905 nm
Measurement range	3-1200 m (to a vertical surface with ≥12m diameter and 20% reflection rate)
Measurement accuracy	± (0.2 m + D×0.15%) D is the distance to a vertical surface

Features

Hybrid Optical Zoom	23×(DFOV : 4°EQV : 556.2mm)
Max. Zoom	200×(DFOV : 0.5°EQV : 4800mm)
One Click Capture	One click to save the video or picture of 3 cameras (zoom, wide and thermal camera) simultaneously

Features

Point to Aim	Double click on the wide/thermal camera view, then the system will automatically move the gimbal to focus on the point of interest
High-Res Grid Photo	Frame an area of interest in wide camera view, and the zoom camera will automatically capture a set of 20 MP images of the area. These images are stored together with an overview image that can be viewed in greater detail.
Night Scene	Supported (zoom camera)
Timestamp	Including GPS, date, and time

Storage

Supported SD Card	MicroSD card (Max capacity: 128 GB, UHS-1 Speed Grade 3 required)
Supported File Systems	FAT32 (≤ 32 GB), exFAT (> 32 GB)
Recommended Micro SD Cards	TOSHIBA EXCERIA PRO 32GB micro SD HC II SanDisk_Extreme PRO_32GB_3_A1_micro SD V30 HC I TOSHIBA EXCERIA PRO 64GB micro SD XC II SanDisk_Extreme PRO_64GB_3_A2_micro SD V30 XC I SAMSUNG_EVO_128GB_micro SD 3 XC I TOSHIBA EXCERIA M303E 32GB micro SD HC I TOSHIBA EXCERIA M303E 64GB micro SD XC I TOSHIBA EXCERIA M303E 64GB micro SD XC I TOSHIBA EXCERIA M303 128GB micro SD XC I SAMSUNG_EVO_64GB_micro SD 3 XC I



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