

Specifications

General	
Name	Zenmuse H20, Zenmuse H20T
Dimensions	150×114×151 mm (Zenmuse H20) 167×135×161 mm (Zenmuse H20T)
Weight	678±5 g (Zenmuse H20) 828±5 g (Zenmuse H20T)
Ingress Protection Rating	IP44
Laser Safety	Class 1M (IEC 60825-1:2014)
Supported Aircraft	Matrice 300 RTK
Gimbal	
Angular Vibration Range	±0.01°
Mount	Detachable
Controllable Range	Pan: ±320°, Tilt: -120° to +30°
Mechanical Range	Pan: ±330°, Tilt: -132.5° to +42.5°, Roll: -90° to +60°
Max Controllable Speed	Pan: 90°/s, Tilt: 90°/s
Zoom Camera	
Sensor	1/1.7" CMOS, Effective Pixels: 20M
Lens	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) Focus: 1 m to ∞ (wide), 8 m to ∞ (telephoto)
Focus Mode	MF/AF-C/AF-S
Exposure Mode	Manual, Auto
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	3840×2160@30fps, 1920×1080@30fps
Video Format	MP4
Video Subtitles	Supported
Max. Image Size	5184×3888
Image Format	JPEG
Wide Camera	
Sensor	1/2.3" CMOS, Effective Pixels: 12M
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
Electronic Shutter Speed	1-1/8000 s
ISO Range	Video: 100-25600 Photo: 100-25600
Video Resolution	1920×1080@30fps
Video Format	MP4
Video Subtitles	Supported
Max. Image Size	4056×3040
Image Format	JPEG
Infrared Thermal Camera	
Thermal Imager	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 raw included)
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° to 150° C (High Gain) -40° to 550° C (Low Gain)
Temperature alert	Supported
FFC	Auto/Manual
Palette	White Hot/Fulgurite/Iron Red/Hot Iron/Medical/Arctic/Rainbow 1/ Rainbow 2/Tint/Black Hot
Laser Rangefinder**	
Wavelength	905 nm
Measuring Range	3-1200 m (Vertical reflecting surface with 12 m diameter and 20% reflectivity)
Measuring Accuracy	±(0.2 m+D×0.15%), D is the distance to a vertical surface

Storage	
Supported SD Cards	Supports a microSD card with capacity of up to 128 GB. A UHS-I Speed Grade 3 rating microSD card is required.
Supported File System	FAT32 (≤32 GB), exFAT (>32 GB)
Recommended microSD 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
Recommended microSD Cards	TOSHIBA EXCERIA M303E 32GB micro SD HC 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

Environment	
Operating Temperature	-20° to 50° C (temperature measurement is only supported in temperature range of -10° to 50° C)
Storage Temperature	20° to 60° C

* By importing R-JPEG images into DJI Thermal Analysis Tool, you can measure temperature, and adjust parameters such as emissivity and reflection temperature.

Download the DJI Thermal Analysis Tool at <https://www.dji.com/zenmuse-h20-series/downloads>

** Optical parameters of the laser rangefinder: laser pulse width is 6.5 ns, repetition frequency is 12.5 kHz, maximum peak power is 45 W. Do not disassemble the laser module to avoid being injured by the laser.