

General

Product Name	Zenmuse H20N
Dimensions	178x135x161 mm
Weight	878±5 g
Protection Rating	IP44
Laser Safety	Class 1M (IEC 60825-1:2014)
Supported Aircraft	Matrice 300 RTK

Gimbal

Angular Vibration Range	±0.01°
Mount	Detachable

Zoom Camera

Sensor	1/1.8" CMOS; Effective Pixels: 4M
Lens	Focal Length: 6.8-119.9 mm (equivalent: approximately 32.7-574.5 mm) Aperture: f/1.6-f/11 Focus: 1 m to ∞ (wide); 8 m to ∞ (tele)
Focus Mode	MF/AF-C/AF-S
Exposure Mode	Manual, Auto
Exposure Compensation	±3.0 (1/3 increments)
Metering Mode	Spot Metering, Average Metering
AE Lock	Supported
Electronic Shutter Speed	Photo: 8-1/8000 s Video: 1/30-1/8000 s Photo/Video (Night Scene): 1/15-1/8000 s
ISO Range	Video: 100-102400 Photo: 100-102400
Video Resolution	2688x1512@30fps 1920×1080@30fps 1920×1080@15fps (Night Scene)
Video	

Format	MP4
Video Caption	Supported
Max Image Size	2688×1512
Photo Format	JPEG

Wide Camera

Sensor	1/2.7" CMOS; Effective Pixels: 2M
Lens	DFOV: 73.6° Focal Length: 4.5 mm (equivalent: approximately 29 mm) Aperture: f/2.8 Focus: 1 m to ∞
Exposure Mode	Auto
Exposure Compensation	±3.0 (1/3 increments)
Metering Mode	Spot Metering, Average Metering
AE Lock	Supported
Electronic Shutter Speed	1-1/8000 s
ISO Range	Video: 100-102400 Photo: 100-102400
Video Resolution	1920×1080@30fps
Video Format	MP4
Video Caption	Supported
Max. Image Size	1920×1080
Image Format	JPEG

Tele Infrared Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
	DFOV: 12.5°

Lens	Focal Length: 44.5 mm (equivalent: approximately 196 mm) Aperture: f/1.2 Focus: 45 m to ∞
Equivalent Digital Zoom	16x, 32x
Video Resolution	640×512@30fps
Video Format	MP4
Image Resolution	640×512
Image Format	R-JPEG* (16 bit raw included)
Pixel Pitch	12 μ m
Spectral Band	8-14 μ m
Sensitivity (NETD)	$\leq$ 50 mK @ f/1.0
Temperature Measurement Method	Spot Meter, Area Measurement
Scene Range	-20° C to 150° C (High Gain) 0° C to 500° 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

Wide Infrared Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
Lens	DFOV: 45.5° Focal Length: 12 mm (equivalent: approximately 53 mm) Aperture: f/1.0 Focus: 5 m to ∞
Equivalent digital zoom rate	4x
Video Resolution	640×512 @ 30 fps
Video Format	MP4

Format	
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	-20° to 150° C (High Gain) 0° to 500° 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 Range Finder

Wavelength	905 nm
Maximum Power	3.5 mW
Single Pulse Width	6 ns
Measuring Accuracy	± (0.2 m + target distance x 0.15%)
Measuring Range	3-1,200 m (0.5 x 12 m vertical surface with 20% reflectivity)

Storage

Supported microSD Cards	Supports a UHS-I Speed Grade 3 microSD card with a capacity of up to 128 GB
Supported File System	exFAT

Environment

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

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