



dji

Zenmuse H20N



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
Controllable Range	Pan: ±320° Tilt: -120° to +60°
Mechanical Range	Pan: ±330° Tilt: -132.5° to +68° Roll: -90° to +60°
Max Control Speed	Pan: 90°/s Tilt: 90°/s

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



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 Video (Night Scene Mode, Enhanced Noise Reduction Off): 1/10-1/8000 s Video (Night Scene Mode, Enhanced Noise Reduction On): 1/5-1/8000 s
ISO Range	Video: 100-102400 Photo: 100-102400
Video Resolution	2688×1512@30fps 1920×1080@30fps 1920×1080@10fps (Night Scene Mode, Enhanced Noise Reduction Off) 1920×1080@5fps (Night Scene Mode, Enhanced Noise Reduction On)
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	Photo: 8-1/8000 s Video: 1/30-1/8000 s Video (Night Scene Mode, Enhanced Noise Reduction Off): 1/10-1/8000 s Video (Night Scene Mode, Enhanced Noise Reduction On): 1/5-1/8000 s
ISO Range	Video: 100-102400 Photo: 100-102400
Video Resolution	2688×1512@30fps 1920×1080@30fps 1920×1080@10fps (Night Scene Mode, Enhanced Noise Reduction Off) 1920×1080@5fps (Night Scene Mode, Enhanced Noise Reduction On)
Video Format	Mp4
Video Caption	Supported
Max Image Size	1920×1080
Photo Format	JPEG



Tele Infrared Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
Lens	DFOV: 12.5° 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 μm
Spectral Band	8-14 μm
Sensitivity (NETD)	≤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	4x
Video Resolution	640×512 @ 30 fps
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	-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



Laser Range Finder

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

Environment

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

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