

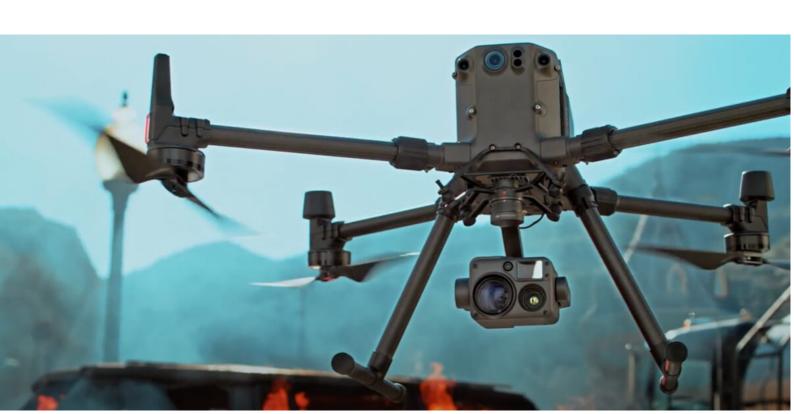
www.kambillsystems.com

KAM Zenmuse H20 SERIES

Sensors

BY

KAMBILL SYSTEMS PVT. LTD.





Specs

General

- □ Weight
 - ☐ Zenmuse H20: 678±5 g Zenmuse H20T: 828±5 g
- □ Dimensions
 - ☐ Zenmuse H20: 150×114×151 mm Zenmuse H20T: 167×135×161 mm
- □ Ingress Protection Rating
 - □ IP44
- Operating Temperature
 - \square -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°

Get in touch:



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: $1 \text{ m to} \infty$ (wide), $8 \text{ m to} \infty$ (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
П	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 (Zenmuse H20T)

Ш	Sensor
	☐ Uncooled VOx Microbolometer
	Lens

Get in touch:



П	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
	☐ Supported
	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

Get in touch:



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
	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)
П	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