

| Category    | Item                      | Spec  |
|-------------|---------------------------|---|
| General     | Weight                    | Zenmuse H20: 678±5 g<br>Zenmuse H20T: 828±5 g   |
|             | Dimensions                | Zenmuse H20: 150×114×151mm<br>Zenmuse H20T: 167×135×161mm   |
|             | 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°<br>Yaw: ±320°  |
|             | Mechanical Range          | Pitch: -132.5° to +42.5°<br>Yaw: ±330°<br>Roll: -90° to +60°  |
| Zoom Camera | Sensor                    | 1/1.7" CMOS, 20 MP  |
|             | Lens                      | DFOV: 66.6°-4°<br>Focal length: 6.83-119.94 mm (equivalent: 31.7-556.2 mm)<br>Aperture: f/2.8-f/11 (normal), f/1.6-f/11 (night scene)<br>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<br>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°<br>Focal length: 4.5 mm (equivalent: 24 mm)<br>Aperture: f/2.8<br>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<br>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) | Sensor                | Uncooled VOx Microbolometer  |
|                               | Lens                  | DFOV: 40.6°<br>Focal length: 13.5 mm (equivalent: 58 mm)<br>Aperture: f/1.0<br>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)<br>-40 °C to 550 °C (Low Gain)  |
|                      | Temperature alert              | Supported  |
|                      | FFC                            | Auto/ manual   |
|                      | Palette                        | White hot/Fulgurite/Iron Red/Hot<br>Iron/Medical/Arctic/Rainbow 1/Rainbow 2/Tint/Black Hot   |
| Laser<br>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%)<br>D is the distance to a vertical surface   |
| Features             | Hybrid Optical Zoom            | 23×  |
|                      | Max. Zoom                      | 200×   |
|                      | 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)  |
|         | Recommended Micro SD Cards | <p>TOSHIBA EXCERIA PRO 32GB micro SD HC<br/> SanDisk_Extreme PRO_32GB_3_A1_micro SD V30 HC<br/> TOSHIBA EXCERIA PRO 64GB micro SD XC<br/> SanDisk_Extreme PRO_64GB_3_A2_micro SD V30 XC<br/> SAMSUNG_EVO_128GB_micro SD 3 XC TOSHIBA<br/> EXCERIA M303E 32GB micro SD HC TOSHIBA<br/> EXCERIA M303E 64GB micro SD XC TOSHIBA<br/> EXCERIA M303E 64GB micro SD XCTOSHIBA<br/> EXCERIA M303 128GB micro SD XC<br/> SAMSUNG_EVO_64GB_micro SD 3 XC</p> |