



Standard  
Pan-Tilt



High-  
integration



Individual  
Operation



Joint  
Diagnosis



Quality  
Service

# ZH580-UAV-S

## Drone Carried Multi-spectral Camera

ZH580-UAV-S is a drone carried multi-spectral imaging system with high integration of UV, IR, visible & laser, which has characteristics of integrated design, lightweight, multi-spectral and quick-handling. Developed based on the PSDK platform, through the high-precision special pan-tilt quickly docking M300RTK and other mainstream drones. Images were fused by high-precision image registration to obtain the exact location of corona discharge, temperature anomaly, missing damage and other defects.

ZH580-UAV-S is very suitable for UAVS transmission and distribution lines, railway lines, substations, forest fire prevention, operation and maintenance services and other industries.

## Features

- Standard Pan-Tilt & Excellent shock-resistance
- High integration of UV, IR, VIS & Laser
- Individual Operation & Quality and Efficiency
- 4 in 1 Multi-spectral joint diagnosis
- Secured equipment & Good after-sale service
- Drone pilot and UV photography certificate



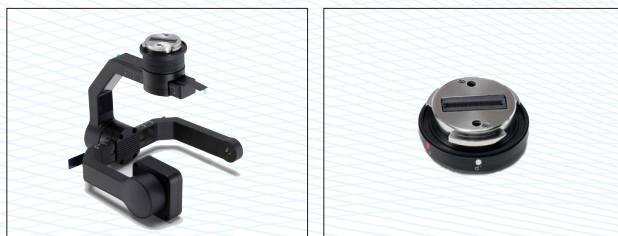
## ZH580-UAV-S Technical Specifications

UV properties	
Spectral Range	240~280 nm
Discharge Sensitivity	1Pc @10 m
RIV Sensitivity	3.6 dBμV(RIV) @ 1 MHz@10 m
UV Sensitivity	$3.0 \times 10^{-18}$ watt/cm <sup>2</sup>
FOV	20°×11.2°
Gain	0-100%
VIS properties	
FOV	9°-52°
Sensitivity	0.1 Lux
Sensor size	20*30 mm
Digital zoom	10 x digital zoom
Display and output	
Display Mode	UV、IR、VIS、UV+VIS、UV+IR、UV+IR+VIS
Overlay Accuracy	≤ 1mrad
Display Control	UAV flight control
Resolution	1280×720
Threshold Alarm	Support photon number, temperature reading settings
Image	JPG & RAW
Video	MP4/H.264
Corona Colors	Red, white, blue, yellow, cyan, green, magenta
Status Information	Mode、Gain、Counting、Color、Temperature、Alarm

IR properties	
Band	8-14μm
Temp Range	-20 °C — +550 °C
Pixel Size	12μm
FOV	46°×37°
Focus	Fixed Focus
Digital Zoom	1-8 x
Physical	
Dimension	118×83×58 mm
Weight	550g (without pan-tilt) ; 900g (with pan-tilt)
Protection Class	IP54
Accessories	Pan-tilt+Mainframe/64G card/Micro SD/Manual/Carrying case
Drone (Optional)	
Dimension	Unfold 810×670×430 mm Fold 430×420×430 mm
Weight	3.6 kg、6.3 kg(With two batteries)
Maximum Load	2.7 kg
Flight Altitude	5000 m
Wind Speed	15 m/s
Flight Time	55 min
IP Rating	IP45
Operation Temp	-20°C-+55°C
Humidity	≤ 90%RH

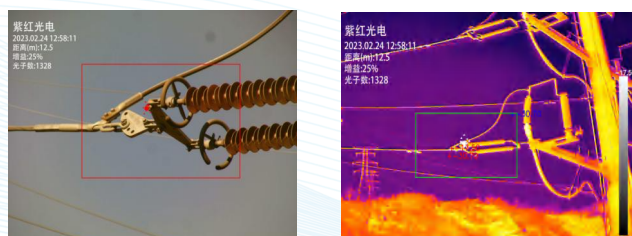
### ◆ Precise Pan-Tilt

Precision aerial Pan-Tilt, excellent shock resistance, stability and adaptability, can be quickly loaded and unloaded within 2 minutes on site.



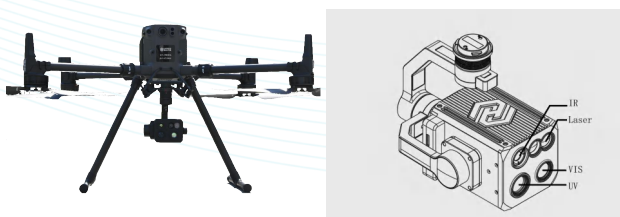
### ◆ Joint Diagnosis

Multi-spectral imaging technology combined, improving the diagnostic accuracy and detection efficiency, reduce the false alarm and miss alarm rate.



### ◆ Highly Integrated

High sensitivity UV movement, IR movement, high-definition VIS camera and laser ranger are highly integrated, one machine multi-capability.



### ◆ Quality Service

Mavic 3 drone is the options for end users to follow the application scene in the whole process, so as to realize worry-free detection process.

