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# Compound Series: UV20 & UV34

## Four-in-One Payload UV System



#### Uv20 Introduction

The four-in-one payload (UV+UAV system) carries a UV sensor, an IR thermal imaging camera, a Zoom EO Camera, and a ToF sensor. Its UV sensor can detect various ultraviolet sources, such as partial discharges, wildfires, etc.

Our UV cameras are "blind" to the UV radiation coming from the sun, allowing only the relevant UV radiation to pass though its sensor.

#### All in one damage assessment

This ZQ product can detect UV sources, measure temperature and obtain distance readings between the target and the payload. Therefore, providing an all-in-one solution that reduces the overall inspection workload.

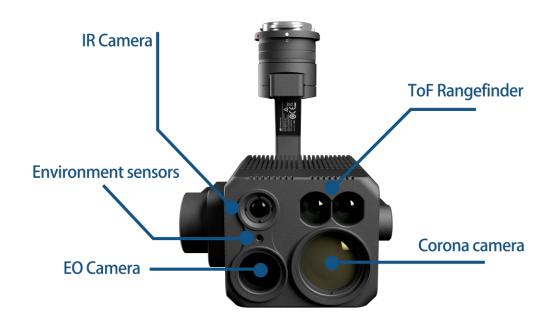
#### Two measurements - one screen

The camera has two different modes in which it can display the UV radiation source:

- 1. UV + IR : Allowing thermal imaging
- 2. UV + EO: Allowing Zoom
- 3. UV: Exclusively displays the UV source.







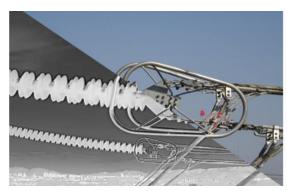
### Parameters Table

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Overall information					
Weight	UV20: 850g	Another instrumentation	Thermometer, humidity sensor		
	UV34: 900g				
Protection Level	IP45	Maximum memory capacity	128 GB microSD		
UV Corona camera					
Resolution	720 × 576	FOV	17.5 ° × 14.4 °		
Wavelength	240-280nm	Sensitivity	$3 \times 10^{-18}  \text{W/cm}^2$		
Aperture	UV20: 20mm				
	UV34:34mm				
IR camera					
Resolution	640 × 512	FOV	47.1 ° × 38.5 °		
Wavelength	$8\mu$ m = $14\mu$ m	Spatial resolution	1.364mrad		
Focal length	8.8mm	Pixel spacing	12 μ m		
(NETD)	≤50mK	Temperature measure	-20°C - 150°C		
	@ f/1.0 25℃	scope			
ToF Rangefinder					
Distance	45m	Wavelength	850nm		
EO camera					
Resolution	3264 × 2448	Effective pixels	8Mpx		
FOV	9°-52°	Optical zoom	10x		





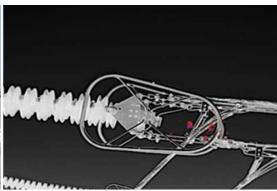
Sensor size	1/3 inches	Pixel size	1.5 µ m	
Gimbal				
Model	DJI X-Port	Stable system	3 Axis (bend and lift, transverse, translation)	
Angle movement	± 0.01 °	Movement scope	bend and lift: -120 ° - +30 ° translation: ± 320 °	





UV+IR Mixed spectrum visualization





UV+EO Mixed spectrum visualization

#### Post processing

The infrared information taken by the Compound series IR camera can be processed using the Guide IR analysis software (ThermoTools). This software can analyze in detail each radiometric information quickly and efficiently.

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