

TMS7138A

Dual Sensor Payload



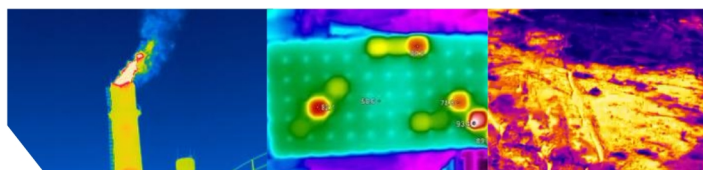
TMS7138A is an payload system that consists with 3-axis stabilized gimbals, HD visible camera and uncooled IR thermal imaging camera. This system is not only increasing the UAV's flight time, but also monitoring and inspecting air-to-ground conditions, as well as equipped with infrared camera for temperature measurement.

Features and Benefits

- Thermal imaging and temperature measurement functions, switchable modes of temperature measurement and non-temperature measurement
- Clearly indentify the abnormal hot spot during 10 meters by IR camera and 10mm screw by HD visible camera
- 1080P HD visual video and real time IR video streaming, switchable at any time
- Simultaneous visible photo and IR photo snapshot and continuous shooting
- IR video and visible video can superimpose payloads status information and IR video data includes the temperatures of max,min and center.

Applications

- | | |
|----------------------------|--------------------------|
| ■ Power line inspection | ■ Law enforcement |
| ■ Environmental monitoring | ■ Solar power inspection |
| ■ Forest firefighting | ■ Rescue after disaste |



Specifications

IR Thermal Imaging camera	
Detector Resolution	640×512
Focal Length	25mm
Frame Rate	≥25Hz
FOV	≥28.7°×23.0° (±5%)
Focus	Auto/Manual
Temperature Range	-20°C~150°C
Temperature Accuracy	±2°C or ±2%
Color Palettes	8
Digital Zoom	×1, ×2, ×4
IR Image Format	JPG/16 bit raw rate (high version)
IR Video Format	AVI or 16 bit raw rate (high version)
HD Visible Camera	
Resolution	16 Megapixel
Video Resolution	1920×1080
Focal Length	4.7mm~47mm
Frame Rate	≥25Hz
Zoom	10x optical continuous zooming
Storage Format	JPG, AVI
Servo Platform	
Azimuth Angle	- 180°~180°
Pitching Angle	- 120°~90°
Roll Angle	- 35°~35°
Power	
Input Voltage	DC20V~26V
Power Consumption	Standard: ≤20W; Peak: ≤40W;
Interface	
Control Interface	RS422
Video Interface	HDMI
Storage Interface	Mini SD Card (32G)
Physical Characteristics	
Weight	≤1.2kg
Dimension	≤148mm×143mm×180mm
Environmental	
Operating Temperature Range	- 20°C~55°C
Storage Temperature Range	- 20°C~65°C

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