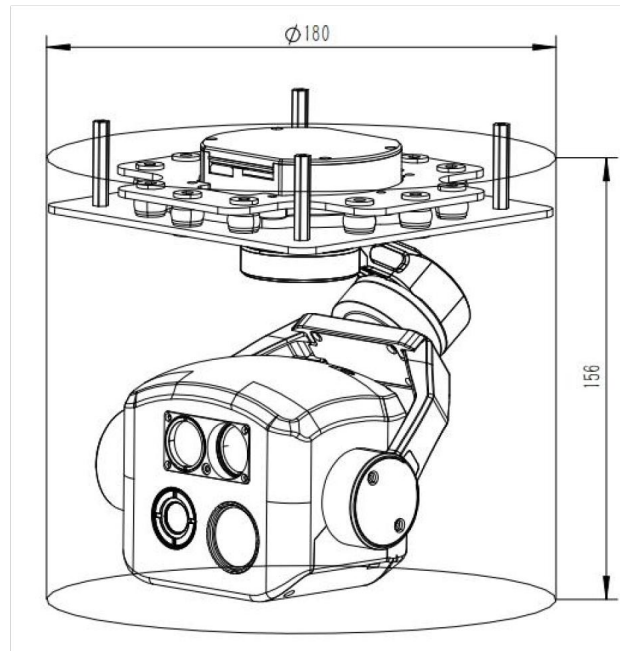


Functional Features

- 90X Hybrid Zoom^①
- 640*512 Thermal
- PIP Switch Modes
- 10 Pseudo Colors
- IP/ UART^② Control
- High-precision 3-Axis FOC
- TF Card Storage/ IP read & Write
- Low Latency RTSP Video Format

Device Structure



Annotation^① : 90X hybrid zoom: 10X optical zoom * 9X digital zoom

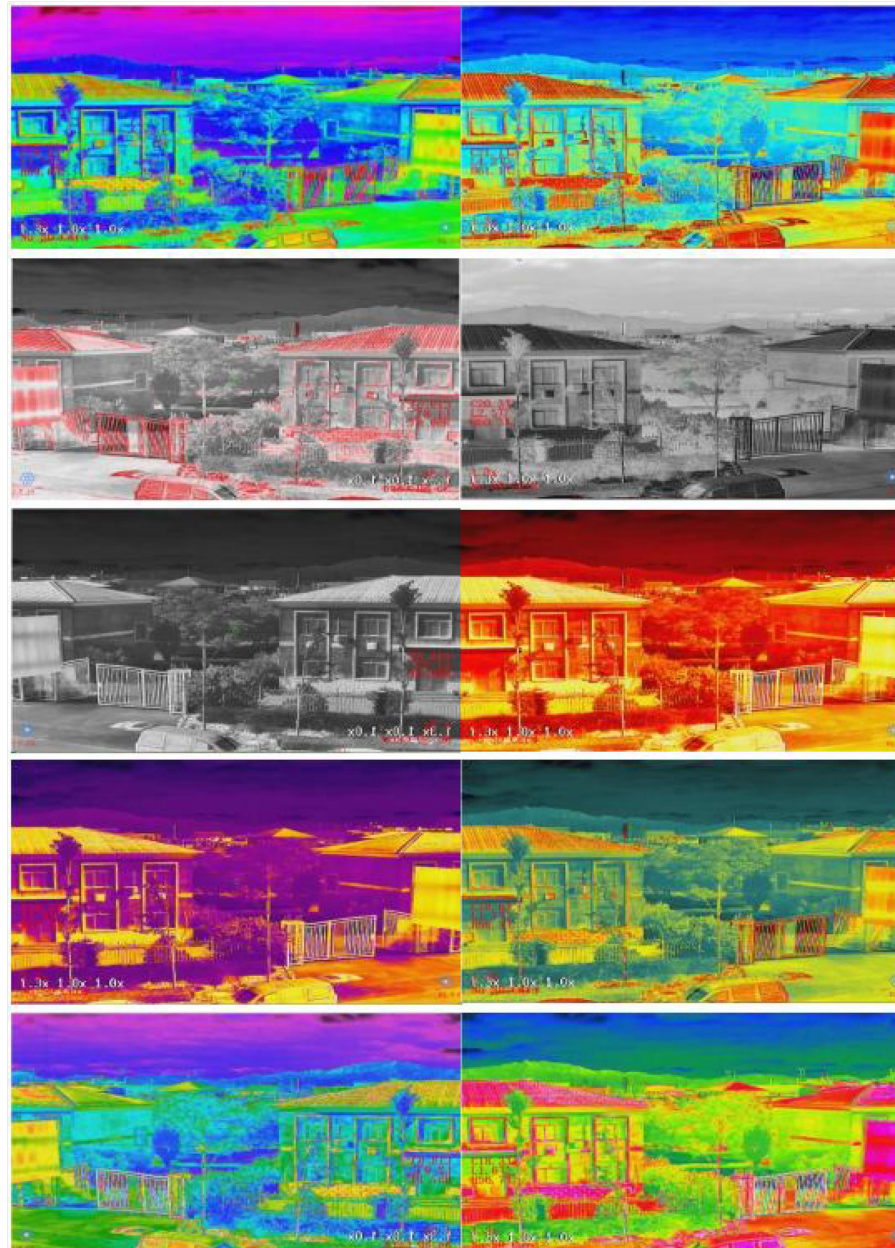
Annotation^② : UART: 3.3V, LVTTTL UART.



Voltage		DC 12V-26.2V ^②
Power Supply		Dynamic 8W
Characteristics	Roll Angle Range	-45°~ +45°
	Pitch Angle Range	-45°~ +100°
	Course Angle Range	360°endless rotation
	Pitch and Roll Angle Jitter	±0.02°
	Horizontal Angle Jitter	±0.03°
	One-click Return Function	Quick return to initial position with one click
	Adjustable PTZ Speed	The current speed mode based on the multiple zoom of camera
	Control Modes	IP and UART control (or PWM / SBUS for Option)
	CMOS Size	1/3" Low Light CMOS SENSOR: 4 Mega Pixels
Visible Light Camera	Optical zoom	10X HD optical zoom lens, f=4.9±10%~49±10%mm
	Focusing Time	Real time fast focusing, focusing time < 1s
	Video Format	IP output RTSP 1080P and Local TF 1080P record
	Field Angle (FOV)	D : WIDE 66.6±5% TELE 7.2±5%
		H : WIDE 53.2±5% TELE 5.3±5%
LRF	Laser wave	905nm (Class I Safety Laser)
	Detect range	5~1500m (can not detect the object in 5 meters)
	Accuracy / Resolution	Below 400m, ≤±1m, above 400m, ≤±0.4m % , Resolution: 0.1m
Thermal	Resolution	640×512pixel
	Pix Spacing	12μm
	Type	Uncooled vanadium oxide infrared thermal imager
	Wavelength	8~14μm
	NETD	≤50mk@25°C@F1.0
	FOV	13mm lens, FOV: 32.9°× 26.6°
	Measurement	Full pixels temperature measurement(full pixels temperature storage for option)
Size		Φ :180mm H:156mm
Operating Temperature		-10°C to +45°C / 20% to 80% RH
Storage Temperature		-20°C to +60°C / 20% to 95% RH
Application		UAV aerial photography
Weight		630±20 gram

Annotation②: The input voltage should be DC12V~26.2V and the instantaneous voltage should be below 27V.

Pseudo Colors:



PIP Switch Modes:



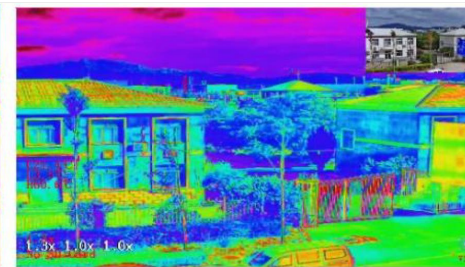
Visible Light



Visible Light+ Thermal

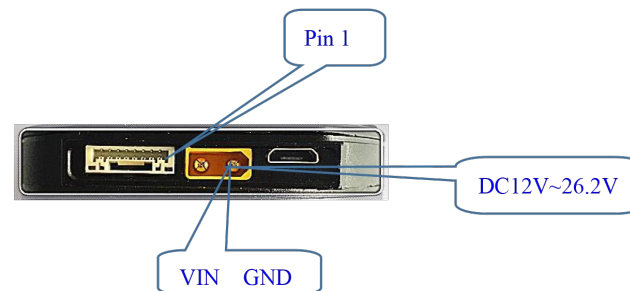


Thermal Imaging



Thermal + Visible Light

Interface Diagram:



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