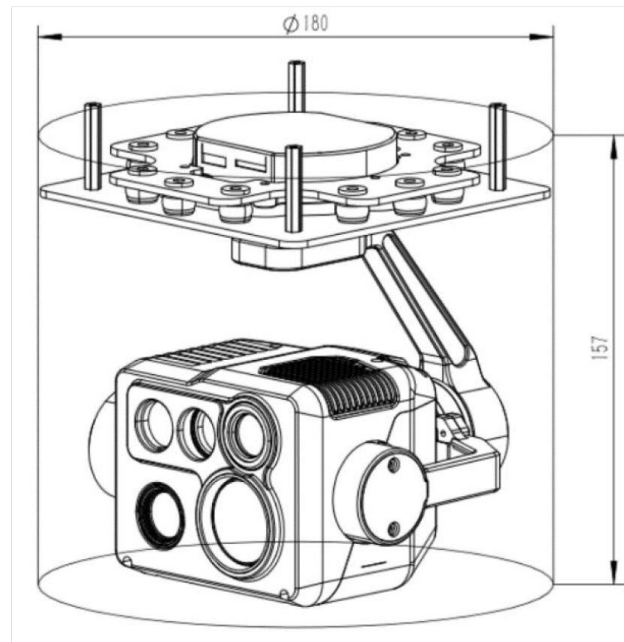


Features


- 90x mixed zoom^①
- 640×512 thermal imaging
- IP network, UART^② control
- High-precision, high-collaboration control algorithm.
- 1800m laser range finder
- Thick beam laser irradiation
- Low latency RTSP code stream output
- TF card dual recording , network reading and writing

Structure



note^①: 90x mixed zoom: 10x optical zoom +9x digital zoom

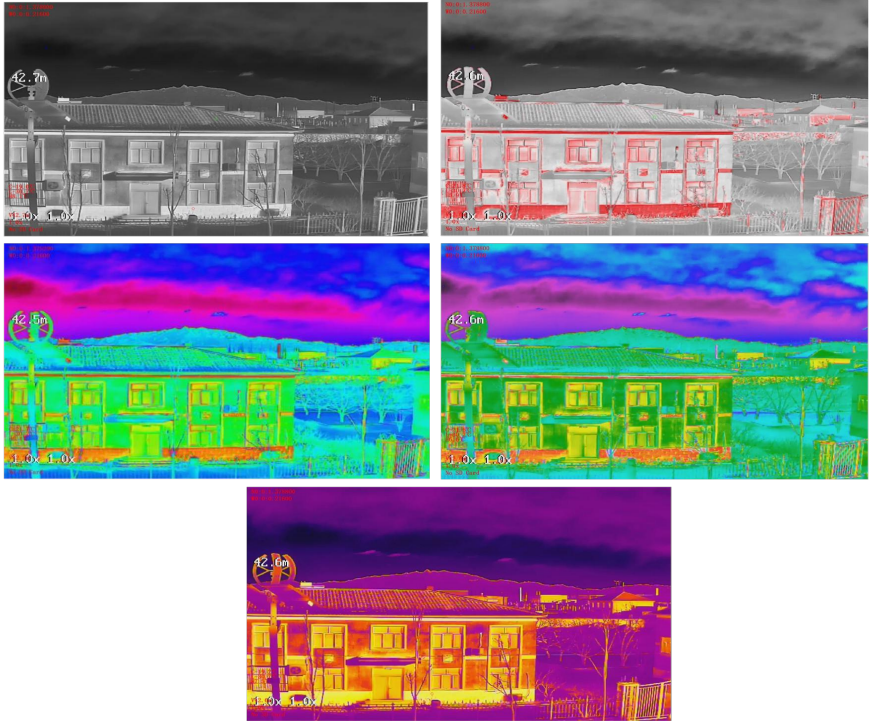
note^② : UART: 3.3V, LVTTTL UART。

		
Voltage		DC 12V-26.2V [®]
Power Consumption		Dynamic 8W
PTZ	Roll angle range	-45° ~ +45°
	Pitch angle range	-45° ~ +100°
	Yaw angle action range	-280° ~ +280°
	Pitch and roll direction angular jitter	±0.02°
	Amount of horizontal angular jitter	±0.03°
	One-click return to center function	One click automatic quick return to the initial potion lock/follow mode
	PTZ control speed is adjustable	The speed is adaptive and controllable ,Support network IP and UART Serial port control
	Control mode	Supports network IP control and serial port control (optional SBUS control and PWM control)
Visible light Camera	COMOS Sensor	1/2.8 inch 200 mega pixels wide dynamic COMOS Sensor
	Digital zoom	Support 9x digital zoom
	Compressed storage mode	H264, H265,Video streaming local TF card storage
	Field Angle (FOV)	D : WIDE 69.5°±5% TELE 7.95°±5% H : WIDE 61.5°±5% TELE 7.00°±5% V : WIDE 35.0°±5% TELE 3.97°±5%
	Support Mode	1080P 30fps
Thick beam laser module parameter	wavelength	532nm
	Output Power	50mW
	Supply voltage	3.6-5VDC
	light spot	Dotted
	Storage temperature	-45℃ ~ 80℃
	Dimensions	22mm*70mm
	Working current	320mA
	Laser level	3B
LRF	Infrared Wavelength	905nm (class I safety laser)
	measuring range	5--1800 米 (not allowed to illuminate bojects less than 5m)
	Accuracy/resolution	Accuracy 400m, ≤±1m, 400, ≤±0.4m % , ; resolution of laser ranging 0.1m
Thermal	Resolution	640×512 pixel

imaging	Pixel spacing	12μm
	Type	Uncooled vanadium oxide infrared thermal imager
	Wavelength Range	8~14μm
	Heat sensitivity(NETD)	≤50mk@25℃@F1.0
	FOV	13mm, FOV: 32.9° × 26.6°
	Measuring function	Support global temperature measurement, optional full pixel temperature saving function
Size		φ: 180mm H:157mm
Working environment		-10℃ to +45℃ / 20% to 80% RH
Storage environment		-20℃ to +60℃ / 20% to 95% RH
Application		Drone aerial photography
Wight		750±20g

Note③: Voltage :DC12V~26.2V, Note that the instantaneous voltage of the power supply cannot exceed 27V.

Pseudo color switching mode



Pic in pic



Single visible light large image



Large visible light image + small thermal image



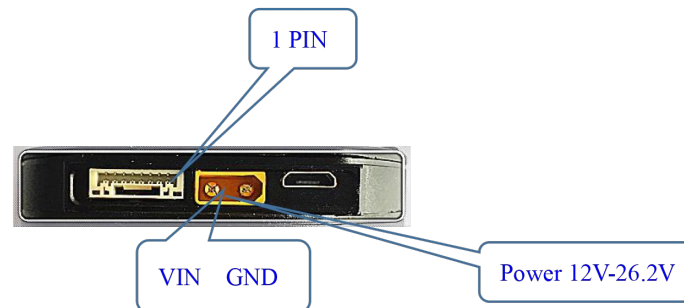
Large single thermal image



Large thermal image + small visible light image

Connection application diagram

Electrical interface



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