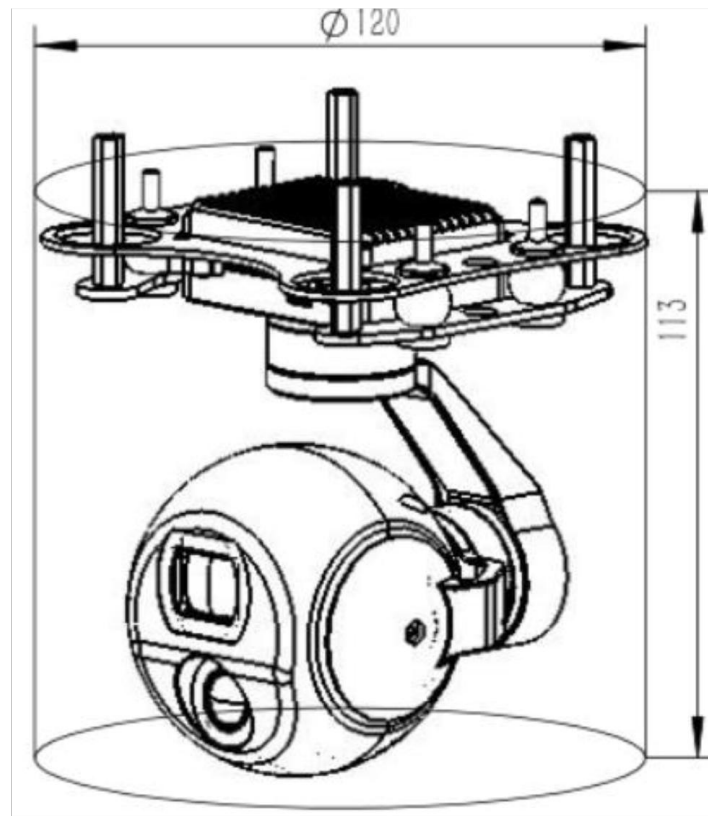


Functional Features

- 5x optical zoom, 9x digital zoom
- 640x512 infrared thermal
- RTSP stream output
- High precision control algorithms
- IP and HDMI dual output
- Provide integrated ground App
- Lightweight 235g

Device Structure



Note①: 45x hybrid zoom means 5x optical zoom+9x digital zoom.

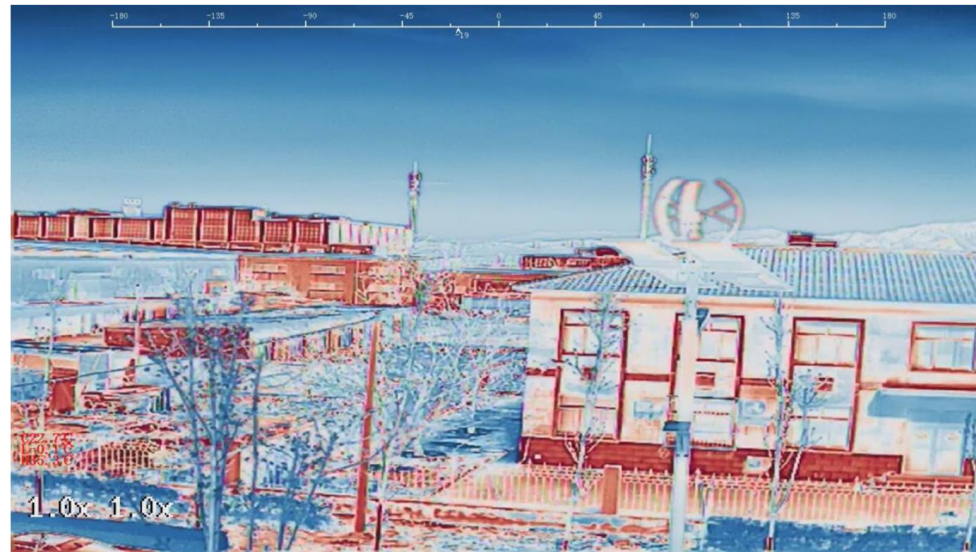
Note②: Serial port means 3.3V, LVTTTL UART.

		
Voltage		DC 12V-26.2V ^③
Power Consumption		Static 5W
Working Status	Roll angle action range	-45° ~ +45°
	Pitch angle action range	-45° ~ +100°
	Yaw angle action range	-145° ~ +145°
	Angle jitter in pitch and roll direction	±0.02°
	Horizontal angle jitter	±0.03°
	One click return function	One click automatic quick return to the initial position
	PTZ control speed adjustable	When the PTZ rotates, the speed is adaptive based on the current speed mode and the multiple of the visible camera.
Visible Light Camera	Control mode	Support network IP, S.Bus and Serial port control (Optional PWM control)
	SENSOR	1/3 inch 4MP CMOS SENSOR
	Optical Zoom	5x HD optical zoom lens, f=5±10%~25±10%mm
	AF Time	Real time focusing, fast focusing time < 1s
	Video output	Network RTSP 1080p output, video stream local TF storage
	Field Angle(FOV)	D : WIDE 61.1° TELE 12.41° H : WIDE 50.12° TELE 10.81° V : WIDE 38.07° TELE 8.13°
	Support Mode	1080P 30fps
Thermal Camera	Resolution	640x512
	Pix Spacing	10μm
	Type	Uncooled Vanadium Oxide Detector
	Wavelength	8~14μm
	Thermal Sensitivity (NETD)	≤50mk@F1.0@25℃
	Field Angle	8.7mm Lens; FOV: 40° × 32.2°
	Measurement (Optional)	Global temperature measurement, optional full pixel temperature saving
Device Size		120mm × 113mm
Working Condition		-10℃ to +45℃ / 20% to 80% RH
Stored Environment		-20℃ to +60℃ / 20% to 95% RH
Main application		UAV aerial photography
Weight		235±20g

Note^③: Voltage: DC12V~26.2V, please note that the instantaneous voltage of the power supply cannot exceed 27V.

Pseudo-color Mode Switch





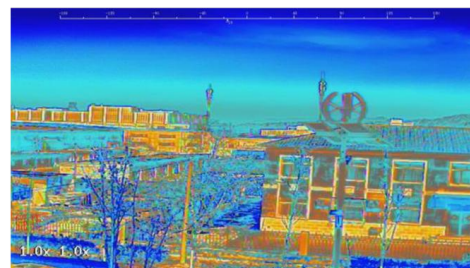
PIP Mode Switch



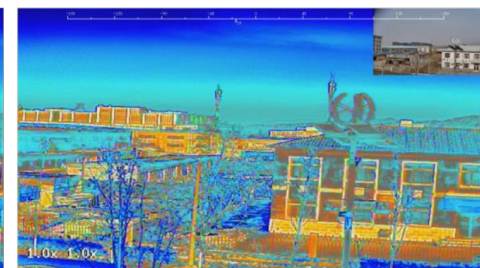
Visible light



Visible light +Thermal imaging

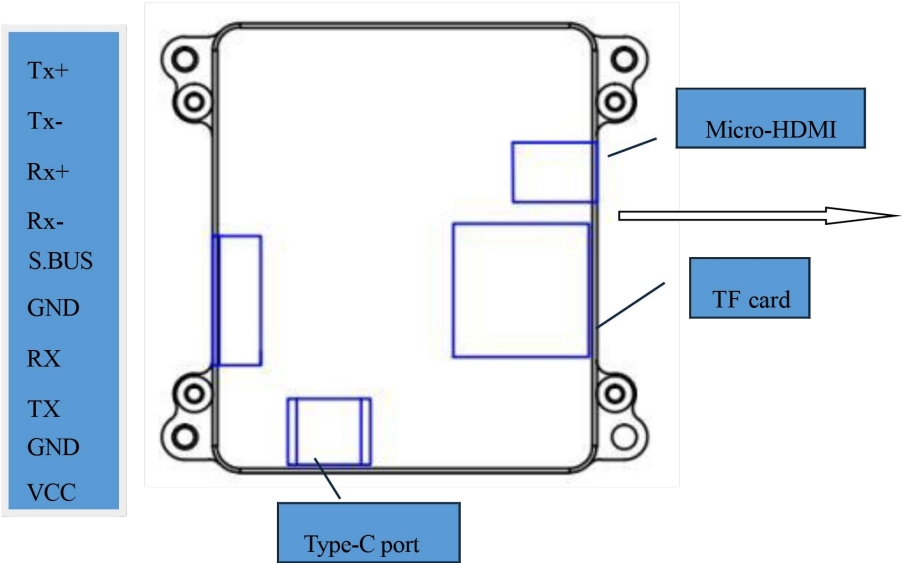


Thermal imaging



Thermal imaging+ Visible light

Electrical Interface



SN	Type	Interface type	Definition	Function
1	10Pin Socket	Communication interface	Tx+	Network interface
2		Communication interface	Tx-	Network interface
3		Communication interface	Rx+	Network interface
4		Communication interface	Rx-	Network interface
5		Communication interface	S. BUS	S. BUS input
6		Signal Ground	GND	GND
7		Communication interface	RX	Serial port receiver
8		Communication interface	TX	Serial port send
9		Power ground	GND	GND
10		Power interface	VCC	DC 12V-26.2V

* Due to product upgrade, appearance/size/weight/power consumption may change slightly, please contact sales for recent data.

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