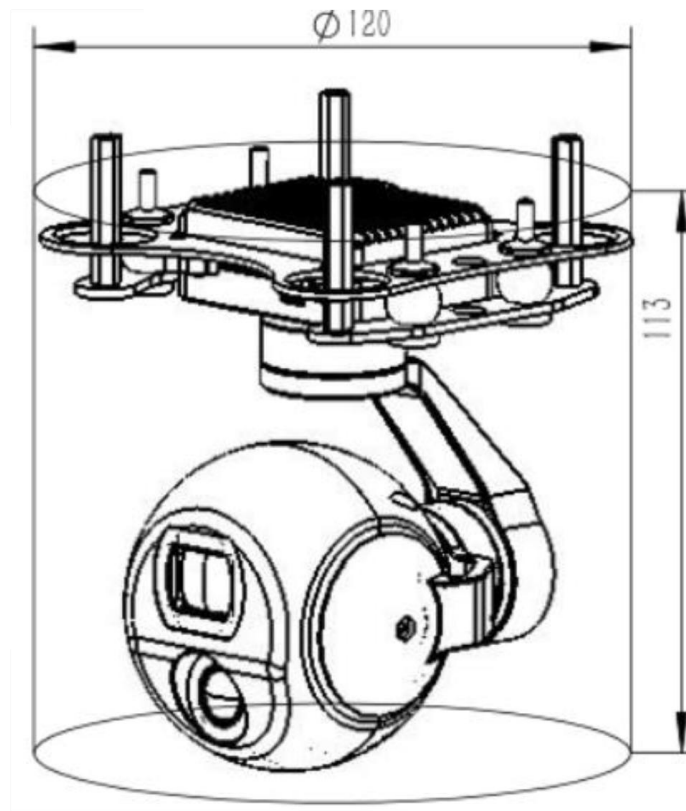


Functional Features

- 5x optical zoom, 9x digital zoom
- 640x512 infrared thermal
- RTSP stream output
- AI Target Detection and Tracking
- Provide integrated ground App
- Lightweight 260g

Device Structure



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

Note②: Serial port means 3.3V, LVTTTL UART.



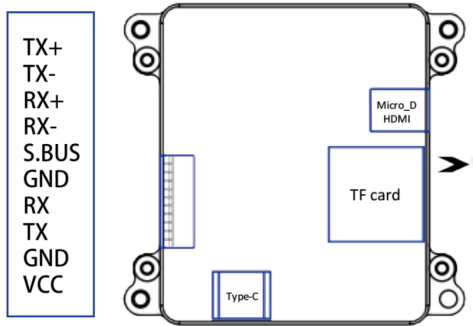
Voltage		DC 12V-26.2V ^③
Power Consumption		Static 5W
Working Status	Roll angle action range	-45° ~ +45°
	Pitch angle action range	-45° ~ +100°
	Yaw angle action range	-145° ~ +145°
	Angle jitter in pitch and roll direction	±0.02°
	Horizontal angle jitter	±0.03°
	One click return function	One click automatic 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.
	Control mode	Support network IP, S.Bus and Serial port control (Optional PWM control)
Visible Light Camera	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
	HDMI video	Micro-D HDMI 1080P 60fps
Thermal Camera	Resolution	640x512
	Pix Spacing	12μm
	Type	Uncooled Vanadium Oxide Detector
	Wavelength	8~14μm
	Thermal Sensitivity (NETD)	≤50mk@F1.0@25℃
	Field Angle	9.1mm Lens; FOV: 45.76°× 37.31°
	Measurement (Optional)	Global temperature measurement, optional full pixel temperature saving
Target recognition and tracking	Min tracking target size	16×16 pixels
	Max tracking target size	256×256 pixels
	Target Memory Time	2 seconds
	Tracking speed	50 Pixel/Frame max
	Simultaneous detection qty	100 targets max
	Recognized categories	Human and Vehicle

	Min detection target size	32×32 pixels
	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	260±20g

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

Connection Application Diagram

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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