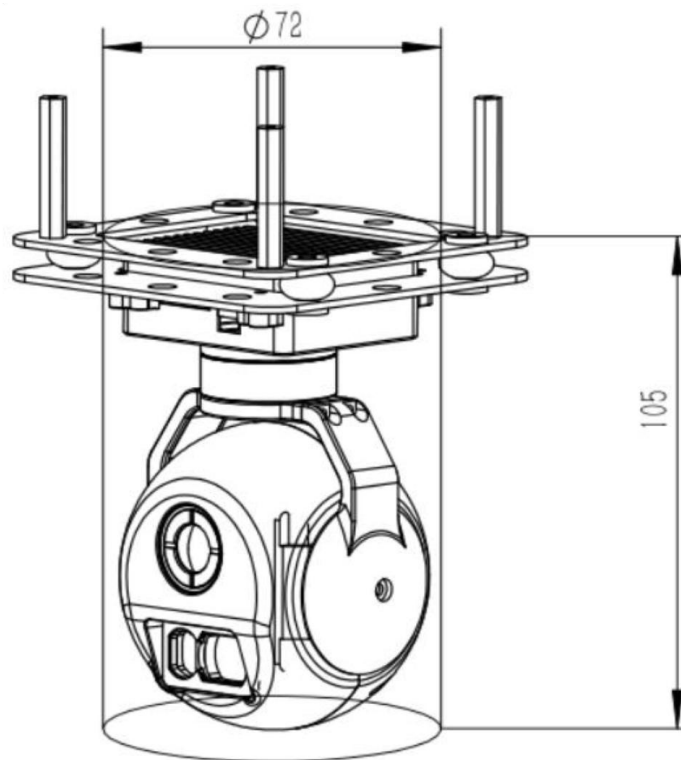



Functional Features

- Multiple thermal imaging pseudo color modes
- 9x digital zoom
- 1200m laser range finder
- AI Target Detection and Tracking
- High Precision, High Coordination Control Algorithm
- Integrated Ground Station Software

Device Structure

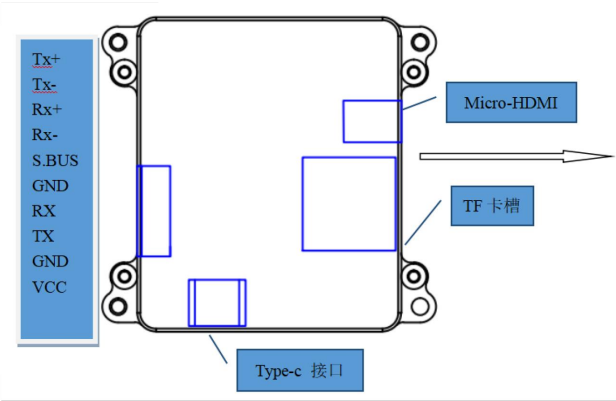


		
Voltage		DC 12V-26.2V ^③
Power Supply		Dynamic 6W
Characteristics	Pitch Angle Range	-30°~+100°
	Yaw Angle Range	-140°~+140°
	Pitch and Roll Angle Jitter	±0.02°
	Horizontal Angle Jitter	±0.03°
	One-click Return Function	Quick return to initial position with one click
	Adjustable PTZ Speed	The current speed mode based on the multiple zoom of camera
	Control Modes	IP and UART and S.BUS control (Optional PWM)
Thermal Imaging	Resolution	640*512
	Pixel spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength range	8~14μm
	Thermal sensitivity (NETD)	≤40mk@F1.0@25°C
	Video Output	IP & HDMI
	Field of view	9.1mm Lens, Field of view: 48.3°×38.7°
	Measurement function (optional)	Highest, Average, Lowest temperature display, Support global temperature measurement, optional full pixel temperature saving function
HDMI Video		Micro-D HDMI 1080P 60fps
LRF	Laser wave	905nm (class 1 laser)
	Detect range	5~1200m
	Accuracy / Resolution	±1m
Target recognition and tracking	Minimum tracking target size:	16×16 pixels
	Maximum tracking target size:	256×256 pixels
	Maximum occlusion time:	2 seconds
	Maximum speed supported:	50 pixels/frame
	Maximum number of recognitions:	100
	Recognized categories:	people and cars
	Minimum recognized size:	32×32 pixels
Size		72mm × 105mm
Operating Temperature		-10°C to +45°C / 20% to 80% RH

Storage Temperature	-20℃ to +60℃ / 20% to 95% RH
Application	UAV aerial photography
Weight	210±10g

Annotation③： The input voltage should be DC12V~26.2V and the instantaneous voltage should be below 27V.

Interface Diagram:



Item	Model	Interfaces	Definition	Function
1	10 PIN Socket	Signal	Tx+	IP
2		Signal	Tx-	IP
3		Signal	Rx+	IP
4		Signal	Rx-	IP
5		Signal	S. BUS	S. BUS Input
6		Signal GND	GND	GND
7		Signal	RX	UART receiving
8		Signal	TX	UART sending
9		Power GND	GND	GND
10		Power Output	VCC	DC 12V-26.2V

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

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