

Functional characteristics

- AI Target Detection and Tracking
- 1080P visible light
- Four picture-in-picture modes
- 640 × 512 thermal imager
- Ten pseudo color modes
- Supports IP HDMI dual output
- Supports 9X digital zoom
- 3-axis stabilization pods
- 1100m laser ranging
- Light weight gimbal, 315g

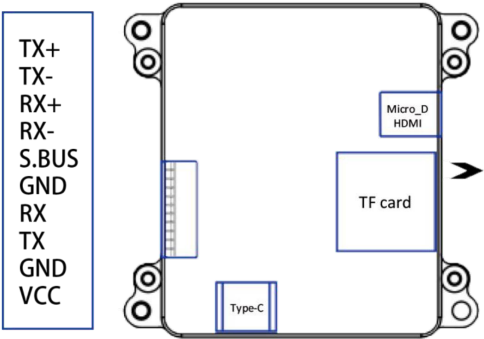
Whole structure



Voltage		DC12V-26.2V
Power Supply		Dynamic 7W
Working Status	Roll Angle action range	-40° ~ +40°
	Pitch action range	-45° ~ +100°
	Yaw angle action range	-145° ~ +145°
	The amount of angular 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
	The speed of the head control is adjustable	The speed adaption is carried out based on the current speed mode and the multiple of the visible light camera.
	Control mode	Support network IP control and serial port control And SBUS control
Visible Light Camera	SENSOR	CMOS SENSOR pixel: 2mega pixels
	Digital zoom	Support 9x digital zoom
	Compressed storage mode	H264, H265,video streaming local TF storage
	field of view (FOV)	FOV: 60°×43°
	HDMI video	Micro-D HDMI 1080P 60fps
laser ranging	Network output mode	1080P 30fps
	Laser wave	905nm (class 1 laser)
	Detect range	5-1100m
thermal imagery	Accuracy / Resolution	Within 400m, ≤ ± 1m; Above 400, ≤ ± 0.4m%
	Resolution	640x512
	Pix Spacing	12μm
	Type	Uncooled vanadium oxide infrared thermal imagery instrument
	Wavelength	8 ~ 14μm
	Thermal Sensitivity (NETD)	≤50mk@F1.0@25°C
	Field Angle	9.1mm Lens; Angle: 45.76°×37.31°
Target recognition and tracking	Measurement (Optional)	Center point, highest temperature, lowest temperature, temperature display
	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	76mm ×81.8mm×109mm
	Work Condition	-10℃ to +55℃ / 20% to 80% RH
	Storage Condition	-20℃ to +60℃ / 20% to 95% RH
	Application	UAV aerial photography
	Weight	315±10g

Structure installation dimension



Number	Model	Interface Type	Interface definition	Function
1	10 PIN	Power interface	VCC	DC 12V-26.2V
2		Power ground	GND	GND
3		Communication Interface	TX	Serial port sending
4		Communication Interface	RX	Serial port receiving
5		Signal ground	GND	GND
6		Communication Interface	S. BUS	S. BUS Input
7		Communication Interface	Rx-	Network Interface
8		Communication Interface	Rx+	Network Interface
9		Communication Interface	Tx-	Network Interface

5		Signal ground	GND	GND
6		Communication Interface	S. BUS	S. BUS Input
7		Communication Interface	Rx-	Network Interface
8		Communication Interface	Rx+	Network Interface
9		Communication Interface	Tx-	Network Interface
10		Communication Interface	Tx+	Network Interface

*Due to product upgrades, there may be slight changes in appearance/size/weight/power consumption. Please contact sales for recent data. We apologize for any inconvenience caused.

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