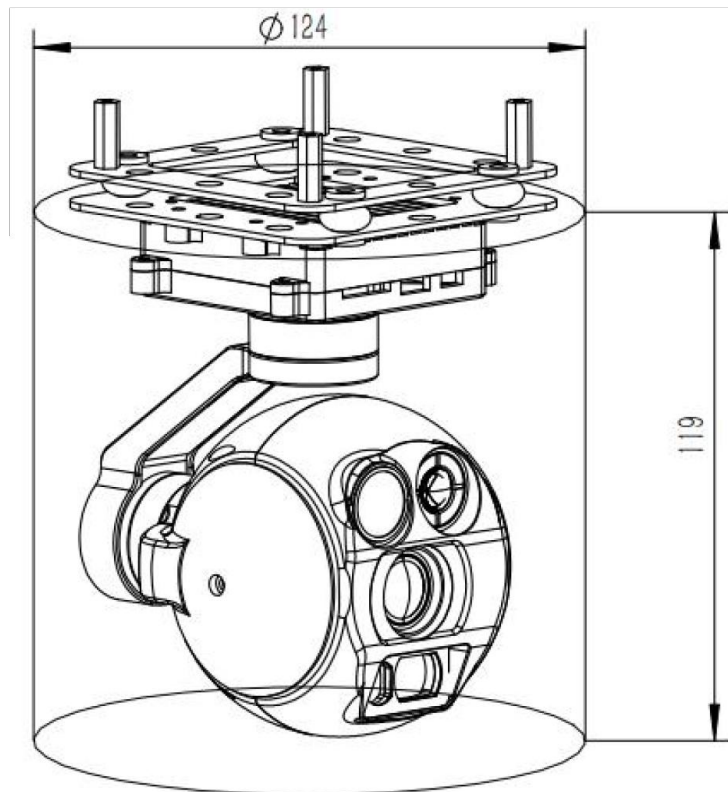


Functional Characteristics

- 3x optical zoom^①
- 1080P fixed-focus
- 640*512 thermal imaging
- 1500m laser rangefinder
- 48MP COMS sensor
- AI target detect and tracking
- TF card two-ways read& recording

System Components



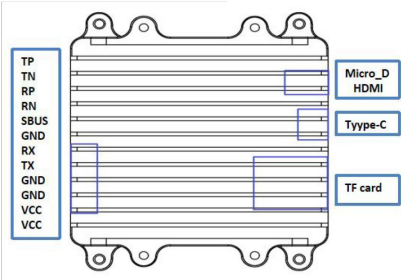


Voltage		DC 12V
Power Consumption		Dynamic 8W
PTZ	Roll angle range	- 45°~ + 45°
	Pitch angle range	- 40°~ + 100°
	Yaw angle action range	- 140°~ + 140°
	Angular jitter for Pitch and roll	±0.02°
	Angular jitter for horizontal	±0.03°
	One-click return to center	One click automatic quick return to the initial potion lock/follow mode
	PTZ control speed is adjustable	The gimbal adapts its rotation speed based on the current speed mode and the zoom level of the visible light camera.
	Control mode	Network IP control, serial port and S.BUS control (optional PWM control)
Optical zoom camera	CMOS size	1/2 inch 48MP COMOS Sensor
	Optical zoom	3x HD optical zoom camera, 15mm(Wide)-50mm(Tele)±5%
	Focus time	Real-time fast focusing function, focusing time <1S
	Video output	Network RTSP 1080P stream,local TF card storage
	(FOV)	D : WIDE 28.98°±3% TELE 9.06°±3% H : WIDE 23.48°±3% TELE 7.29°±3% V : WIDE 17.81°±3% TELE 5.49°±3%
Fixed focus camera	CMOS sensor	CMOS SENSOR Pixel: 2MP
	Digital zoom	Support 9x digital zoom
	Compressed storage mode	H264, H265,Video streaming local TF storage
	(FOV)	FOV: 94.6°× 86.6°
	Support mode	1080P@30fps
Laser rangefinder	Infrared Wavelength	905nm± 5nm (class I Safety laser)
	measuring range	5m~1500m
	Accuracy/resolution	≤ 1m
Thermal imaging camera	Resolution	640*512 pixel
	Pixel spacing	12μm
	Types	Uncooled focal plane microbolometer
	Wavelength coverage	8~14μm
	Heat sensitivity(NETD)	≤50mk@F1.0
	FOV	9.1mm focal length, FOV: 45.76° × 37.31°
	Measuring function	Support global temperature measurement, optional full pixel temperature saving function

AI tracking	Minimum tracking target size	16 × 16 pixels
	Maximum tracking target size	256 × 256 pixels
	Maximum occlusion time	2s
	Support maximum speed	50 pixels per frame
	Maximum recognition quantity	100
	Identified categories	Human and car
	Smallest recognizable size	32 × 32 pixels
HDMI support mode		Micro-D HDMI 1080P@60fps
Size		124mm×119mm
work environment		-10℃ to +60℃ / 20% to 80% RH
Storage environment		-20℃ to +80℃ / 20% to 95% RH
Application		Drone aerial photography
Weight		360±20g

Connection application diagram

Electrical interface



S/N	Model	Interface Type	Definition	Function
1	12PIN Socket	Communication Interface	TP	Network Interface
2		Communication Interface	TN	Network Interface
3		Communication Interface	RP	Network Interface
4		Communication Interface	RN	Network Interface
5		Communication Interface	S.BUS	S.BUS Input
6		Signal Ground	GND	GND
7		Communication Interface	RX	Serial port receiving

8		Communication Interface	TX	Serial port sending
9		Power Ground	GND	GND
10		Power Ground	GND	GND
11		Power interface	VCC	DC 12V-26.2V
12		Power interface	VCC	DC 12V-26.2V

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

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