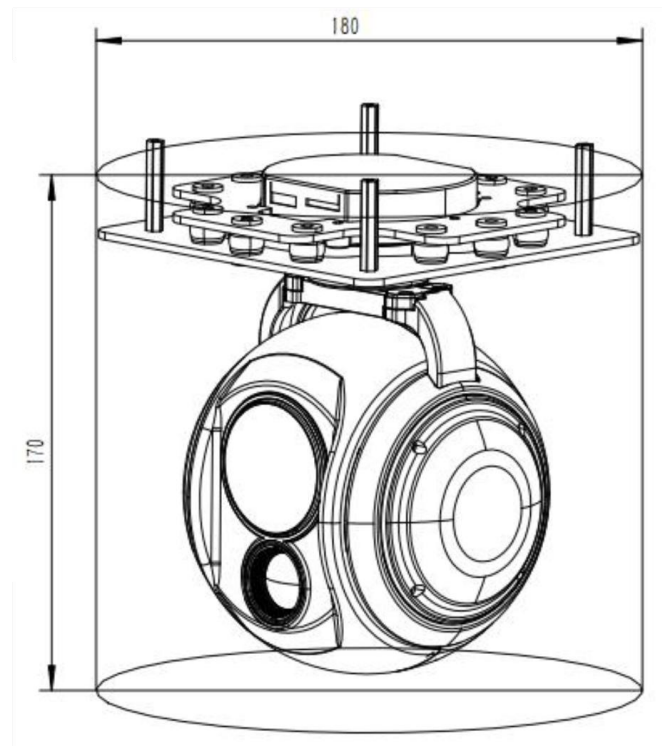## Functional Features

➢ 270X Hybrid zoom[①]

➢ 19mm Focal Length 640 Thermal

➢ Network/UART[②]/S.BUS Control

➢ Multiple thermal imaging pseudo color modes

➢ AI Target Detection and Tracking

➢ 2-Axis Stabilization Pod,865 ± 20g

System composition

Note①：270X Hybrid zoom means：30X optical Zoom+9X Digital Zoom.
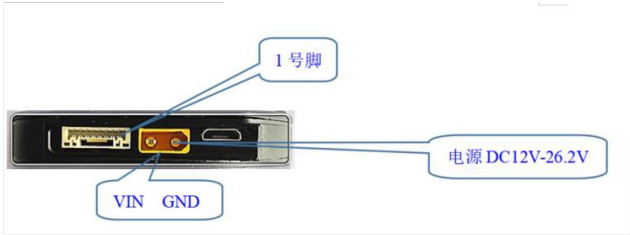
Note② ：UART means：3.3V，LVTTL UART.

Voltage		DC12～26.2V③
Power Supply		Dynamic 7.5W
Gimbal	Pitch Angle	-30°～+120°
	Yaw Angle	±360°*N
	Pitch and Roll Jitter Angle	±0.02°
	Horizontal Jitter Angle	±0.03°
	One-Click Restore	One-click to center
	Adjustable Gimbal Speed	When the gimbal rotates, the speed is adapted based on the current speed mode and the visible light camera multiple.
	Control Modes	Support network IP control, S.BUS control, UART control (PWM control is optional)
Zoom EO	CMOS SENSOR	1/2.8 INCH 200 mega pixel wide dynamic CMOS SENSOR
	Optical Zoom	30x HD optical zoom lens, f=4.5±10%～135±10%mm
	AF Time	Real time fast focusing, focusing time < 1s
	Video Output	Network output RTSP 1080P stream, 1080P local TF card storage
	Field Angle（FOV）	D : WIDE 67.8º±5% TELE 2.77º±5% H : WIDE 59.8º±5% TELE 2.34º±5% V : WIDE 40.5º±5% TELE 1.48º±5%
	Support Mode	1080P 30fps
	Resolution	640×512
Thermal Imaging	Pixel spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength range	8～14μm
	Thermal sensitivity (NETD)	≤50mk@25℃@F1.0
	Video Output	IP Output
	Field of view	19mmLens，Field of view：22.9°x18.4°
	Measurement function (optional)	Highest, Average, Lowest temperature display, Support global temperature measurement, optional full pixel temperature saving function
Target recognition and tracking	Minimum tracking target size:	16×16 pixel
	Maximum tracking target size:	256×256pixel
	Maximum occlusion time:	2s
	Maximum speed supported:	50pixel/frame
	Maximum number of recognition:	100
	Recognized categories:	Human and vehicle
	Minimum recognized size:	32×32 pixel
Dimension		180mm×170mm
Operating Environment		10℃ to +60℃ / 20% to 80% RH

Dimension	180mm×170mm
Operating Environment	10℃ to +60℃ / 20% to 80% RH
Storage Conditions	-20℃ to +80℃ / 20% to 95% RH
Main application	UAV/Drone Photography
	865±20g

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

Electrical interface

No.	Model	Interface type	Interface definition	Function
1		Power Interface	GND	GND
2		Power Interface	5V	+5V Output
3		Communication interface	RxD4	Serial receiver
4		Communication interface	TXD4	Serial send
5	8PIN	Communication interface	DB-	Internet Interface
6		Communication interface	DB+	Internet Interface
7		Communication interface	DA-	Internet Interface
8		Communication interface	DA+	Internet Interface

* Due to product upgrade, appearance/size /Weight/ power consumption may be slightly changed, please contact sales for the latest data, please understand.

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