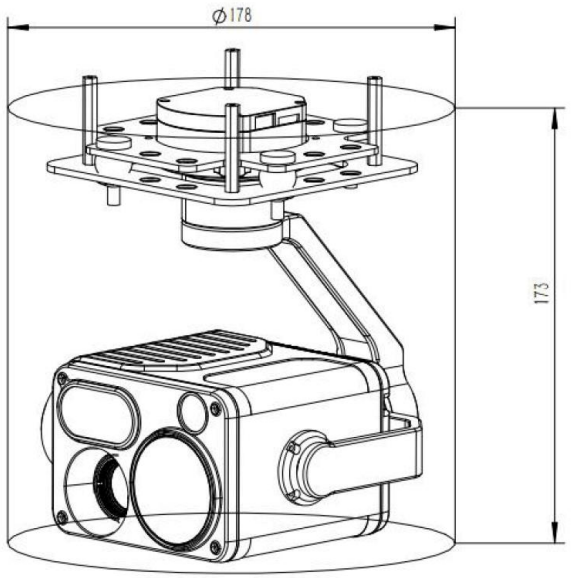
Functional Characteristics

- 210X mixed optical zoom①
- 1080P fixed-focus EO
- 3000m laser range finder
- 640 IR thermal imaging with 19mm focal length
- AI Target Detection and Tracking
- Network/UART②/S.BUS control
- 3-axisi stabilize PTA ， 960±20g
- Single FT-card,two-ways recording

System Components



NOTES①：210X optical zoom：30x optical zoom+7x digital zoom。

NOTES② ：UART：3.3V，LVTTL UART。

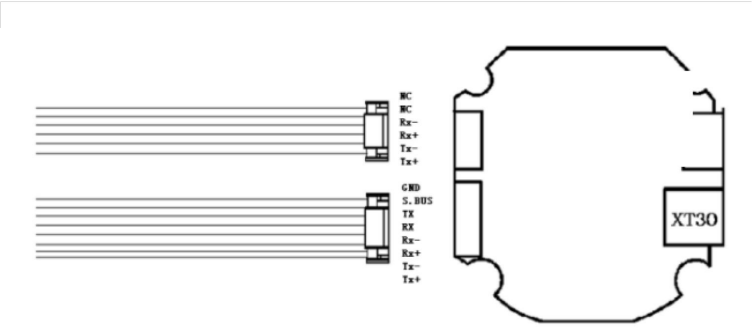
Voltage		DC12～26.2V③
Power Consumption		Dynamic10W
PTZ	**Roll angle range**	- 45°～ + 45°
	Pitch angle range	-30°～ +120°
	Yaw angle action range	-280°～ ＋280°
	Pitch and roll direction angular jitter	±0.02°
	Amount of horizontal angular jitter	±0.03°
	One-click return to center function	One click automatic quick return to the initial potion lock/follow mode
	PTZ control speed is adjustable	When the gimbal rotates, it performs speed adaptation based on the current speed mode and visible light camera multiple.。
	Control mode	Supports network IP control and serial port control (optional SBUS control and PWM control)
Optical zoom	**CMOS sensor**	1/2.8 inch 8 mega pixels wide dynamic COMOS Sensor
	Optical zom	30x HD optical zoom camera, f=4.5～135 mm ±5%
	Focus time	Real-time fast focusing function, focusing time <1S
	Video output	Network RTSP 1080P stream,local TF 1080Pstorage
	（**FOV**）	D : WIDE 67.8°±5% TELE 2.77°±5% H : WIDE 59.8°±5% TELE 2.34°±5% V : WIDE 40.5°±5% TELE 1.48°±5%
	Support mode	1080P 30fps
1080P EO	**CMOS sensor**	CMOS SENSOR pixel：200 mega pixel
	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 range finder	**Infrared Wavelength**	1535±5nm （class Ⅰ Safety laser）
	measuring range	20m～3000m
	Accuracy/resolution	Better than ±1m(RMS)
IR thermal imaging	resolution	640×512 pixel
	Pixel spacing	12μm

	Types	Uncooled focal plane microbolometer
	wavelength coverage	8～14μm
	heat sensitivity(NETD)	≤50mk@F1.0
	Contrast, pseudo-color	Adjustable, multiple pseudo-color modes
	FOV	19mm focal length，FOV：22.9°× 18.4°
	Measuring function	Support global temperature measurement, optional full pixel temperature saving function
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		ϕ：178mm H:173mm
work environment		-10℃ to +45℃ / 20% to 80% RH
Storage environment		-20℃ to +60℃ / 20% to 95% RH
Application		Drone aerial photography
Weight		960±20g

notes③：voltage :DC12V~26.2V，Note that the instantaneous voltage of the power supply cannot exceed 27V。

Connection application diagram

Electrical interface



No.	Types	Interface type	Interface definition	Function
1	6PIN	Communication interface	NC	Reserved interface
2		Communication interface	NC	Reserved interface
3		Communication interface	Rx-	Network interface
4		Communication interface	Rx+	Network interface
5		communication interface	Tx-	Network interface
6		Communication interface	Tx+	Network interface

NO.	Type	Interface Type	Interface Definition	Function
1	8PIN pin	Communication interface	GND	GND
2		Communication interface	S.BUS	S．BUS input
3		Communication interface	TX	UART transmit
4		Communication interface	RX	UART receiving
5		Communication interface	Rx-	Network Interface
6		Communication interface	Rx+	Network Interface
7		communication interface	Tx-	Network Interface
8		communication interface	Tx+	Network Interface

Type	Interface Type	Function	Remarks
Memory card interface	TF	Upgrade and store data	The memory card interface is on the sphere

***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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