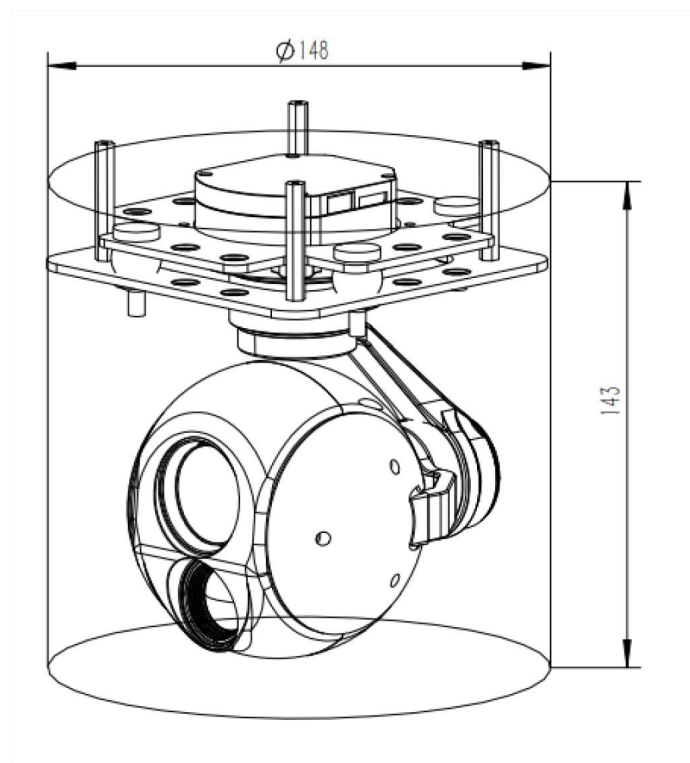


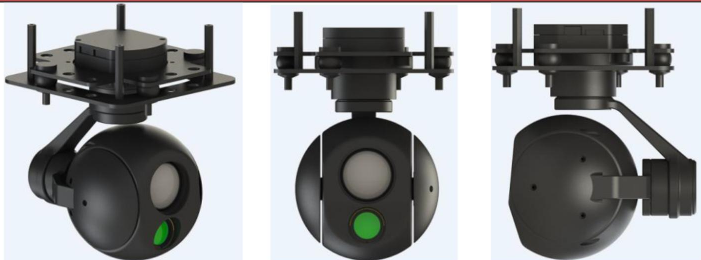
Functions

- 90x Hybrid zoom ①
- 19mm lens 640x512 thermal imaging
- AI Object recognition and tracking (tracking version)
- 10 Multiple pseudo-color modes
- TF card recording, IP reading& writing
- Ground station display & control
- UART and Ethernet control

System structure

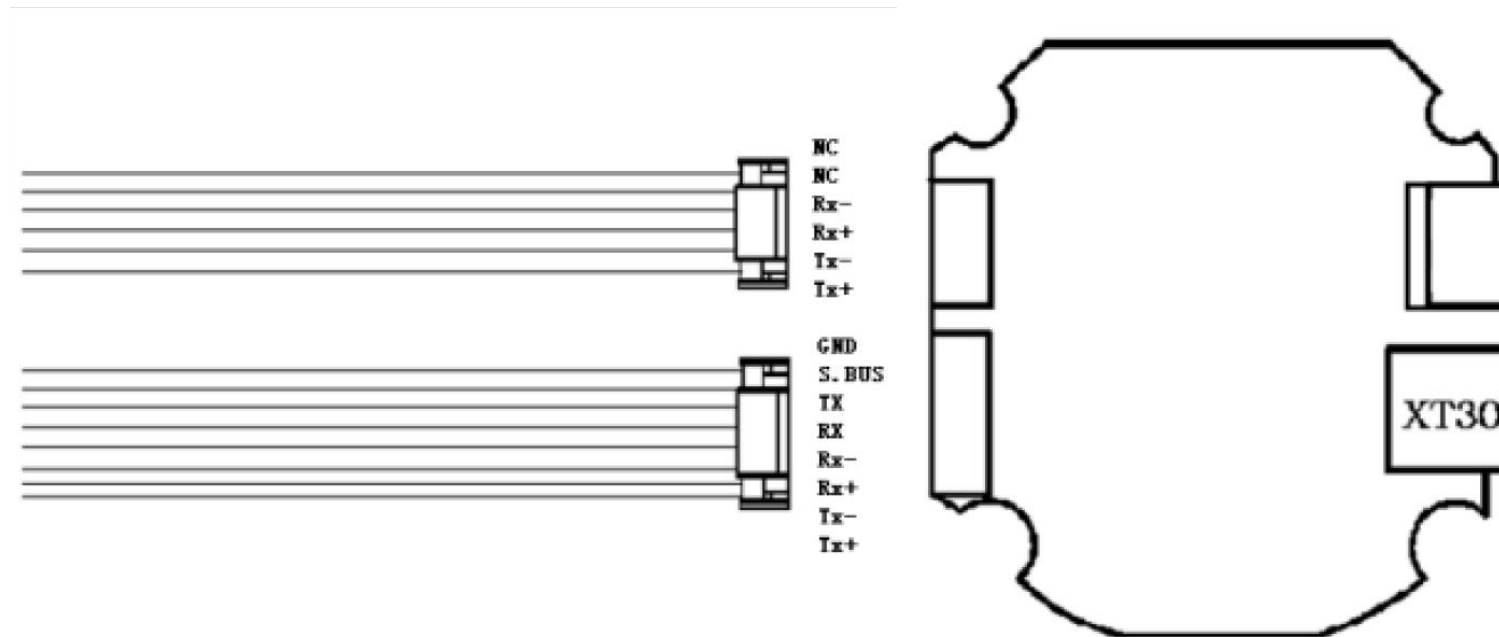


Note ①: 90x mixed zoom refers to: 10x optical zoom+9x digital zoom.

		
Voltage		DC12V-26.2V®
Power Supply		Dynamic 6.5W
Gimbal Feature	Roll Angle	-45° ~ +45°
	Pitch Angle	-30° ~ +100°
	Yaw Angle	-285° ~ +285°
	Pitch and Roll Jitter Angle	±0.02°
	Horizontal Jitter Angle	±0.03°
	One-Click Restore	One-click restore to the initial position
	Adjustable Gimbal Speed	Low speed at big zoom status and fast speed control at small zoom status. Adaptively speed control based on zooming of daylight sensor.
Visible light Camera	CMOS Size	1/2.8 inch2 mega effective pixels CMOS SENSOR
	Optical Zoom	10x HD optical zoom lens, f=5.15±5%~47.38±5%mm
	AF Time	Real time fast focusing, focusing time < 1s
	Video Output	IP HD RTSP output 1080P, video stream local TF storage
	Field Angle (FOV)	D : WIDE 69.5°±5% TELE 7.95°±5% H : WIDE 61.5°±5% TELE 7.00°±5% V : WIDE 35.0°±5% TELE3.97°±5%
	Support Mode	1080P 30fps
Thermal camera Para	Resolution	640×512 pixel
	Pixel spacing	12μm
	type	Uncooled vanadium oxide
	Wavelength range	8~14μm
	Thermal sensitivity (NETD)	≤50mk@25°C@F1.0
	Field angle	19mm lens, FOV: 22.9°×18.4°
	Measurement function (optional)	Center point, Lowest and Highest temperature display; Support global temperature measurement
Target recogniti on and tracking	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		φ:148mm H:143mm

Connecting

Electrical interface



No.	Name	Interface Type	Interface definition	Function
1	8PIN	communication interface	GND	GND
2		communication interface	SBUS	SBUS input
3		communication interface	TX	Serial port sending
4		communication interface	RX	Serial port 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

No.	Name	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

Model	Interface Type	Function	Remark
Memory Card	TF Card	Upgrade and store data	Memory card interface on the sphere

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

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