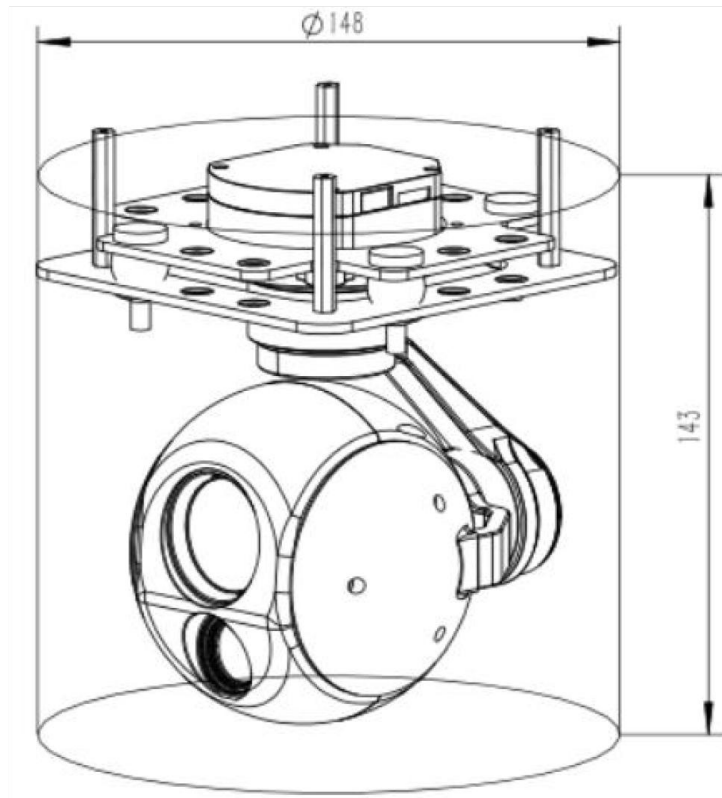


Functions

- 90x mixed zoom^①
- 13mm lens 640x512 thermal imaging
- 4 Picture-in-picture modes
- 10 Multiple pseudo-color modes
- TF card recording, IP reading& writing
- HDMI and Ethernet output
- Ground station display & control
- Weight 480g
- 3-axis stabilizer
- UART and Ethernet control

System structure



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

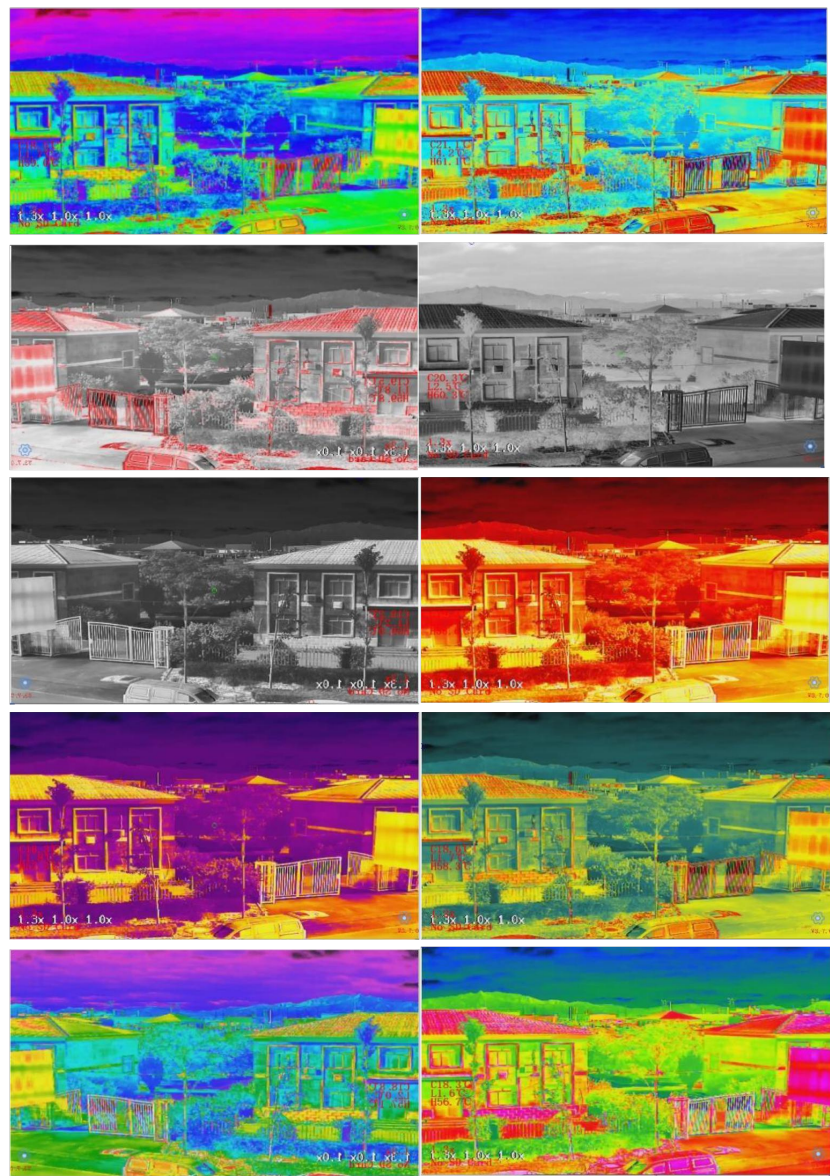
Note ②: Serial port refers to 3.3V LVTTTL UART



Voltage		DC12V-26.2V ^③
Power Supply		Dynamic 6.5W
Gimbal Feature	Roll Angle	-45° ~ +45°
	Pitch Angle	-45° ~ +100°
	Yaw Angle	-280° ~ +280°
	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 inch 2 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% TELE 3.97°±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℃@F1.0
	Field angle	13mm lens, FOV: 32.9°×26.6°
	Measurement function (optional)	Center point, Lowest and Highest temperature display; Support global temperature measurement
Device Size		φ:148mm H:143mm
Work Condition		-10℃ to +55℃ / 20% to 80% RH
Storage Condition		-20℃ to +60℃ / 20% to 95% RH
Mainly usage		for UAV aerial photography
Weight (Not including dampers)		480±20g

Note ③: Voltage: DC12V~26.2V, pls note that the instantaneous voltage of the power supply can't exceed 27V.

Pseudo-color switching



PIP (Picture in Picutre) Mode IP output



Visible light



Visible light +Thermal infrared



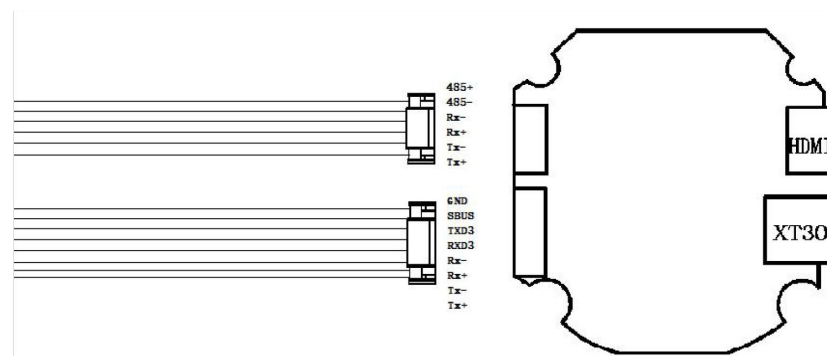
Thermal infrared



Thermal infrared + Visible light

Connecting

Electrical interface



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