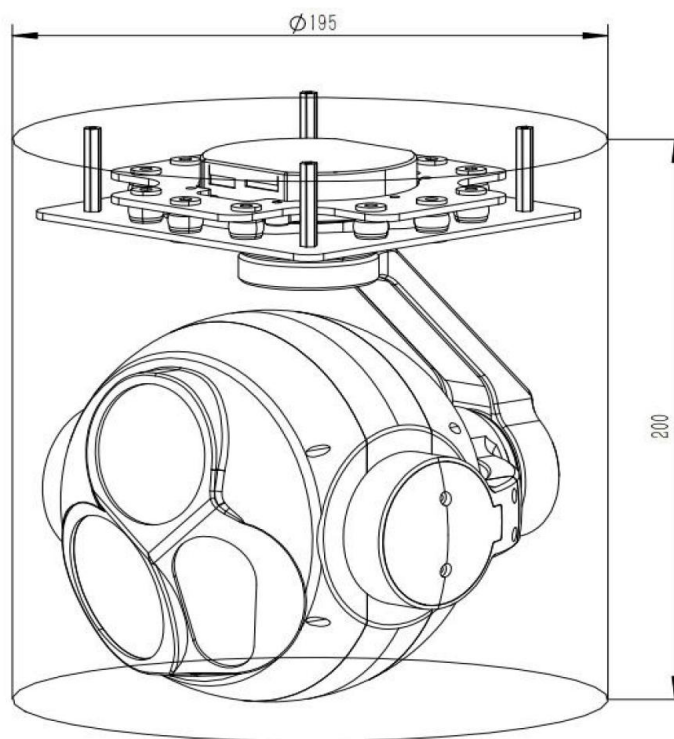


Features

- 270x Hybrid zoom^①
- AI Target Detection and Tracking
- 35mm focal length 640 thermal imaging
- 5000 m laser ranging
- Network, serial port^② synchronous control
- Three axis enhanced stability pod, 1580g

System composition



NOTE①: 270x Mixed Zoom : 30x optical zoom+9x digital zoom

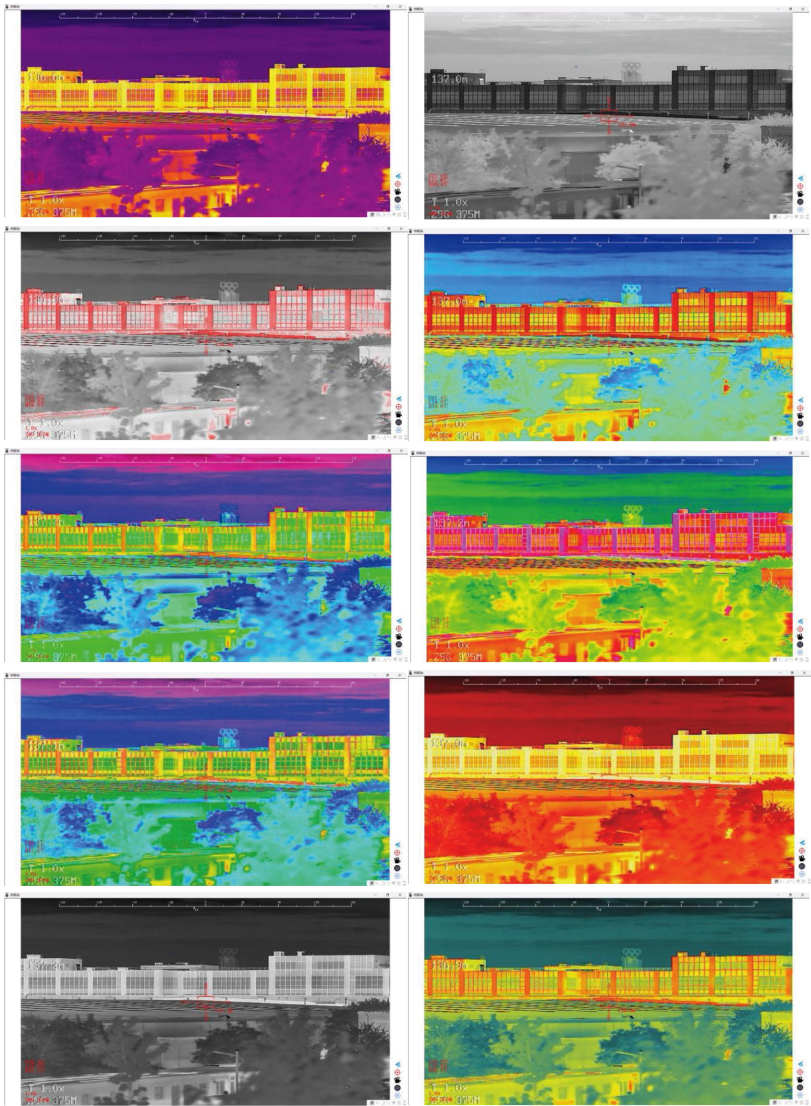
NOTE②: The serial port refers to: 3.3V LVTTTL UART.



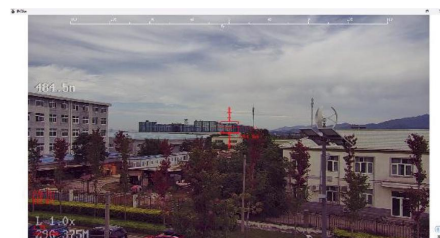
Voltage		DC12V-26.2V
Power Consumption		Dynamic 10W
Gimbal	Roll Angle	- 45°~ + 45°
	Pitch Angle	-30°~ +120°
	Yaw Angle	360 Degree continuous rotation
	Gimbal Mode	Support gimbal Lock/Follow mode; One-click return to the initial position
	Control method	Speed self-adaption and controllable, external control of IP network or TTL serial
Visible Light Camera	CMOS Size	1/2.8inch 2MP wide dynamic range CMOS SENSOR
	Optical Zoom	30x Optical Zoom, f=4.5~135 mm ±5%
	Focusing Time	Real time fast focusing, focusing time < 1s
	Video Output	IP/HDMI output; RTSP 1080P video stream, Local TF 1080P recording
	Field Angle (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
Laser Range	Laser wave	1535±10nm safety for eyes
	Detect range	50~5000m
	Accuracy / Resolution	Accuracy±1m; Ranging resolution ≤ 40m
Thermal imaging	Resolution	640*512 pixel
	Pixel spacing	12μm
	Type	Uncooled infrared microbolometer camera
	Wavelength range	8~14μm
	Thermal sensitivity (NETD)	≤50mk@F1.0@25°C
	Contrast ratio, Pseudo color	Adjustable, multiple pseudo color modes switch
	Field Angle	35mm Lens, Angle: 12.52°x 10.03°
	Measurement (Optional)	Highest temperature, lowest temperature, all area temperature display
Target recognition 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 : 195mm H:200mm

Work Condition	-10℃ to +55℃ / 20% to 80% RH
Storage Condition	-20℃ to +60℃ / 20% to 95% RH
Application	UAV aerial photography
Weight	1580±20g

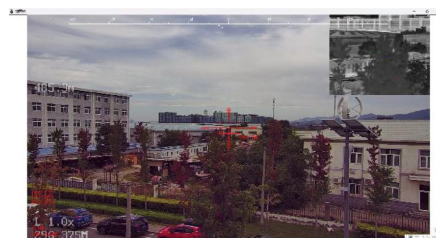
Pseudo Color mode



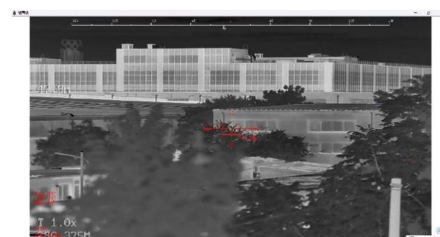
Picture in picture mode



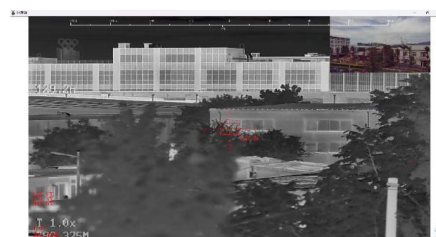
Visible light



Visible light +Thermal infrared

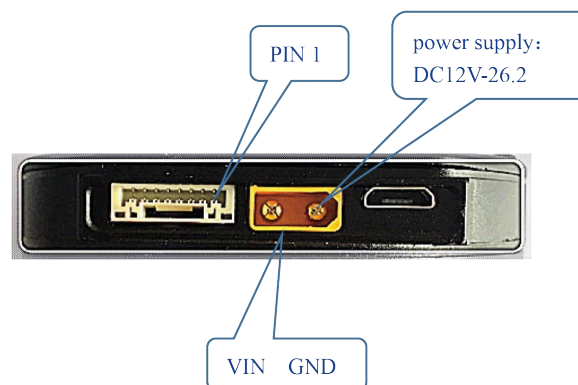


Thermal infrared



Thermal infrared + Visible light

Connection application diagram



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