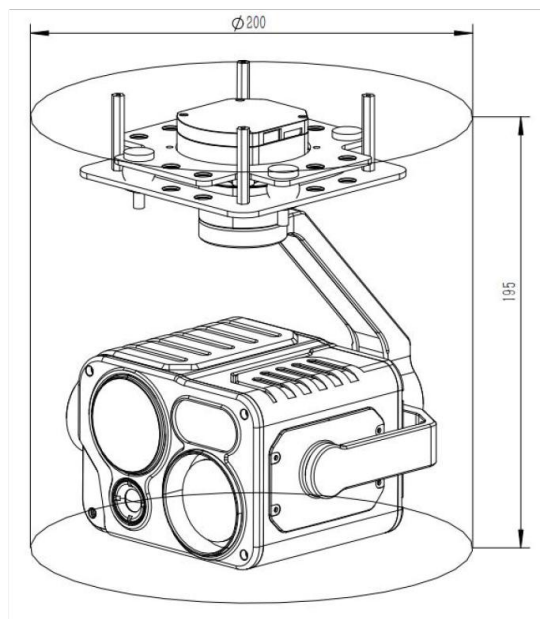


Functiona Features

- 270x mixed zoom^①
- The 640 thermal imager 9.1mm length
- 4 PIP modes
- 10 pseudo-color modes respectively
- IP output,HDMI dual output
- 1800m laser ranging
- The 640 thermal imager 35mm length
- IP/serial^② port/S.BUS control
- TF card,synchronous recording
- $1150 \pm 20g$

Machine structure



Note ① : 270X mixed zoom: 30x optical zoom +9 times digital zoom.

Note ② : Serialport: 3.3V, LVTTTL UART.



Voltage		DC12-26.2V ^③
Power		Dynamic 10w
Working Status	Roll Angle	- 45°~ + 45°
	Pitch Angle	-30°~ +120°
	Yaw Angle	-280°~ + 280°
	Jitter Angle	±0.02°
	Horizontal Jitter Angle	±0.03°
	One-click Restore	One-key automatic quick return to the initial position
	Adjustable Gimbal Speed	speed mode and the multiple of the visible light camera
Visible light camera	Control mode	IP , S.BUS, serial port control(optional PWM control)
	Sensor	1/2.8 inch 2 megapixel wide dynamic CMD5 SENSOR
	Optical zoom	30x HD optical zoom lens, f=4.5 to 135 mm ±5%
	Focus time	Real time fast focus function, focus time <1S
	Video output	Network output RTSP 1080P bitstream, local TF 1080P storage
	Angle of View (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 ranging	Infrared wavelength	905nm (Class I safety laser
	Measuring range	5m~1800m
	Accuracy/resolution	Accuracy within 400m ≤±1m, outside 400m, ±0.4%; Resolution 0.1m
thermal imagery	Resolution	640×512 pixel
	Pixel spacing	12μm
	Type	Uncooled focal plane microbolometer
	Wavelength range	8~14μm
	Thermal sensitivity (NETD)	≤50mk@F1.0
	Contrast, pseudo-color	Adjustable, multiple pseudo-color modes
	Angle of view	9.1mm lens, FOV: 45.8°×37.3°; 35mm lens, FOV:12.52°×10.03°
	Measuring function	Support global temperature measurement, optional full pixel
Device Size		φ;200mm H:195mm
Work environment		-20℃ to +55℃ / 20% to 80% RH
Storage environment		-30℃ to +60℃ / 20% to 95% RH

Main Applications	Drone aerial photography
Weights	1150±20 克

Pseudo-color mode Model



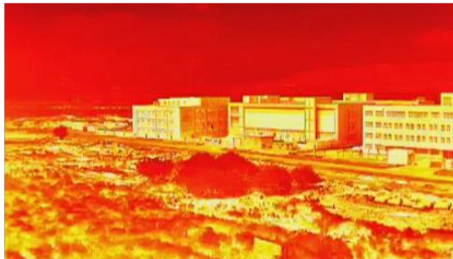
Multiple PIP



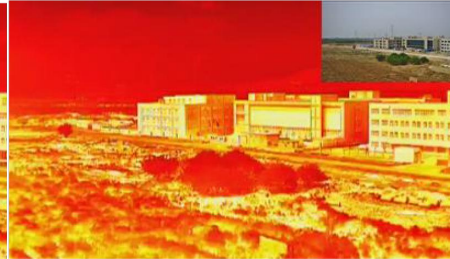
Single visible light mode



Visible light large + thermal imaging small

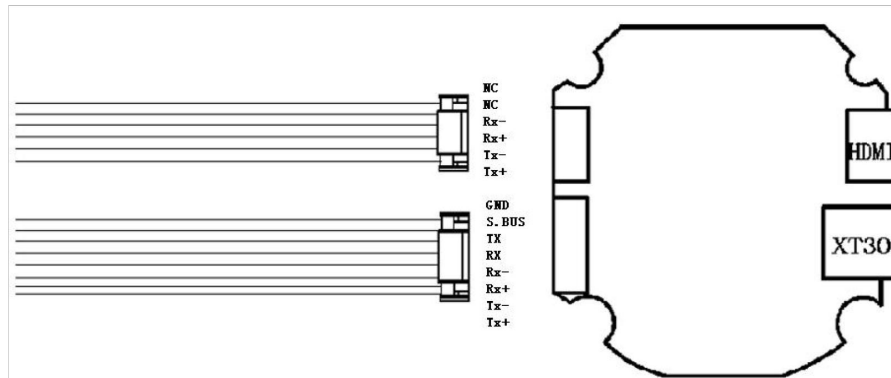


Single thermal imaging mode



Thermal imaging large + visible light small

Connect Application



No.	Type	Interface type	Interface definition	Function
1	6PIN socket	Communication interface	NC	Reserve interface
2		Communication interface	NC	Reserve 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 socket	Signal ground	GND	GND
2		Communication interface	S.BUS	S.BUS input
3		Communication interface	TX	Serial send
4		Communication interface	RX	Serial receiver
5		Communication interface	Rx-	Network interface
6		Communication interface	Rx+	Network interface
7		Communication interface	Tx-	Network interface
8		Communication interface	Tx+	Network interface

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