

Functional Features

- 30x Optical zoom + 50mm lens thermal
- Multiple thermal pseudo color modes
- Multi picture in picture mode
- Standard RTSP video stream output
- IP and UART control
- 3-Axis stabilized gimbal
- TF card 2-way video recording

Device Structure

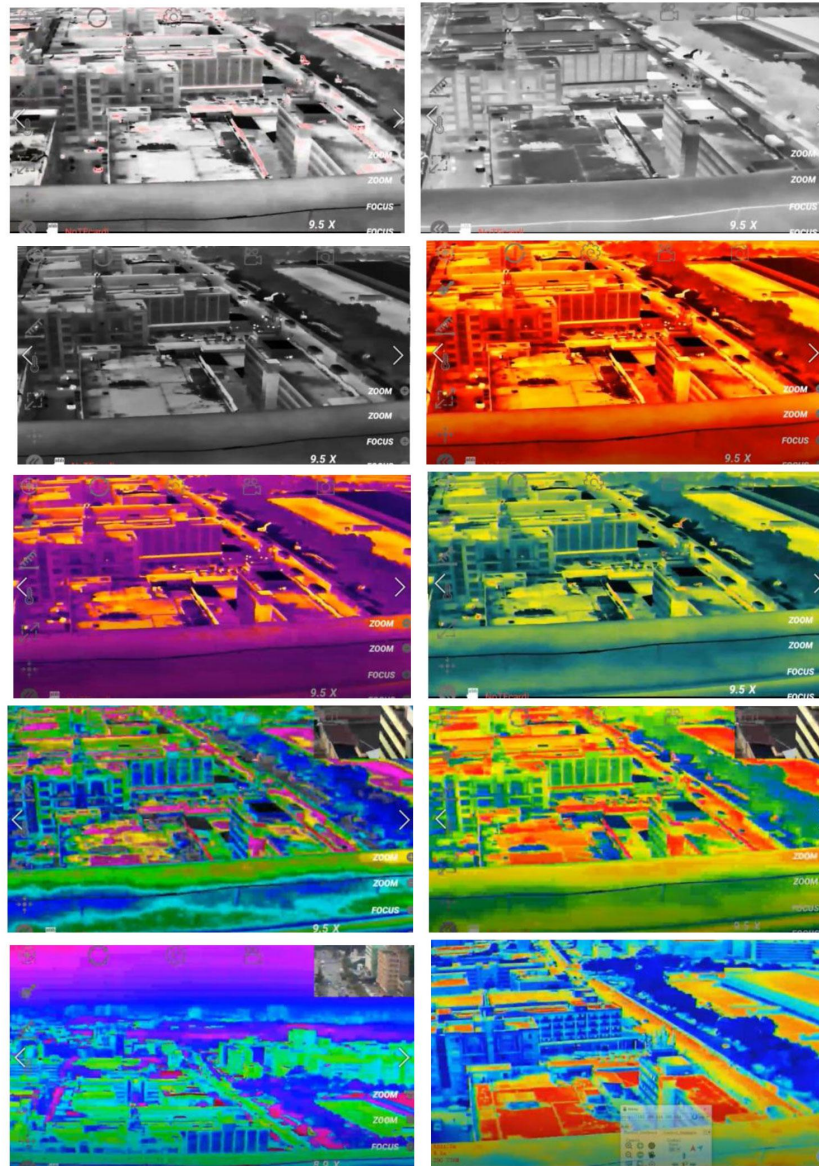




Voltage		3S / 6S
Power Consumption		Dynamic 7.5W
Working Status	Roll angle action range	-45~+45°
	Pitch angle action range	-50~+135°
	Yaw angle action range	360°Stepless Rotation
	Angle jitter in pitch and roll direction	±0.02°
	Horizontal angle jitter	±0.03°
	One click return function	One click automatic quick return to the initial position
	PTZ control speed adjustable	When the PTZ rotates, the speed is adaptive based on the current speed mode and the multiple of the visible camera.
	Control mode	Support IP control and serial port control (Optional SBUS and PWM control)
Visible Light Camera	CMOS Size	1/2.8 inch 2 mega pixel low illumination CMOS SENSOR
	Optical Zoom	30x HD optical zoom lens, f=4.5±10%~135±10%mm
	Optical Zoom	Real time focusing, fast focusing time < 1s
	Video output	Network RTSP 1080p output, video stream local TF storage
	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
Thermal Camera	Resolution	Output:640*512 pixel (Detector: 800*600 pixel)
	Pix Spacing	17μm
	Type	Uncooled vanadium oxide infrared thermal imager
	Wavelength coverage	8~14μm
	Thermal sensitivity NETD	≤40mk@F1.0
	Lens specification	50mm lens, FOV: 12.4x9.9
	Temperature measuring range (Optional)	Center point, Lowest and highest temperature display; Support global temperature measurement
	Size	H202mm× W142mm× L178mm
Device Size		-10°C to +45°C / 20% to 80% RH
Working Condition		-20°C to +60°C / 20% to 95% RH
Stored Environment		UAV aerial photography
Main application		1740±20g

Pseudo Color Switching

Multiple pseudo color mode display, various modes can be switched through command cycle. As shown in the figure below:



Picture In Picture Switching / IP Output

Support 4 picture in picture modes:

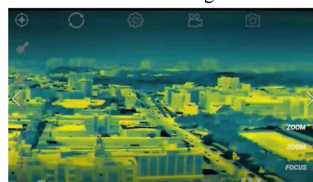
Single visible light mode; Visible light big picture + thermal imaging small picture mode (default mode); Single thermal imaging mode; Thermal imaging big picture + visible light small picture mode;



Zoom Visible light



Visible light +Thermal infrared



Thermal infrared



Thermal infrared + Visible light

Connection Application Diagram



No.	Model	Interface Type	Interface definition	Function
1	8PIN	Power interface	GND	GND
2		Power interface	5V	+5V Output
3		communication interface	RxD4	Serial port receiving
4		communication interface	TxD4	Serial port sending
5		communication interface	DB-	Network interface
6		communication interface	DB+	Network interface
7		communication interface	DA-	Network interface
8		communication interface	DA+	Network interface

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