

Function Future

- 30x Optical Zoom+640 Infrared Thermal
- 9x Digital Zoom
- Multiple pseudo color switching
- Multiple picture in picture modes
- Ethernet (RTSP) output
- TF card stores photo and video record
- SMB protocol network visit TF card
- Network and UART control

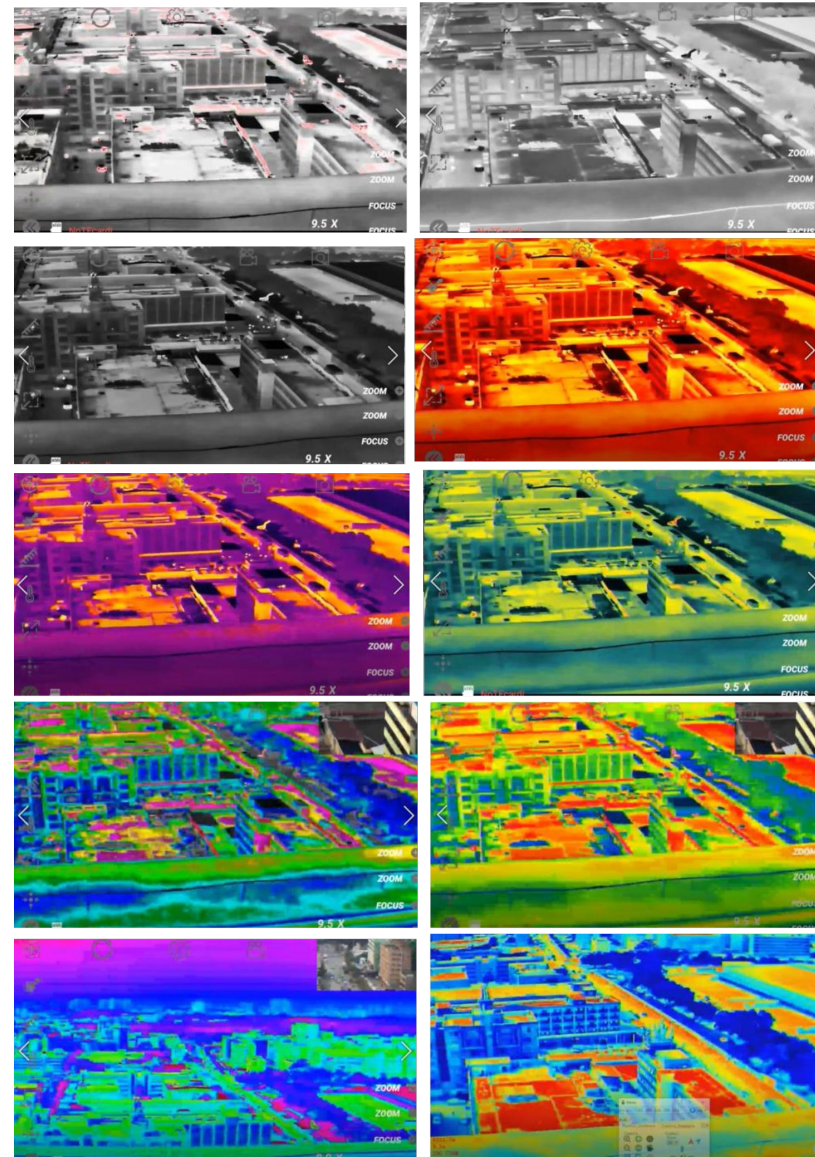
Device Structure



		
Voltage and Power Supply		3S / 6S, Dynamic7.5W
Working Status	Roll Angle	-45°~+45°
	Pitch Angle	-45°~+135°
	Yaw Angle	360° Stepless rotation
	Angle jitter in Pitch and Roll	±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 or serial port control (optional SBUS and PWM control)
Visible Light Camera	CMOS Size	1 / 2.8 Inch 2 mega pixel wide dynamic CMOS sensor
	Optical Zoom	30x HD optical zoom lens, f=4.5±10%~135±10%mm
	Digital Zoom	9x Digital Zoom
	Focusing time	Real time focusing, fast focusing time < 1s
	Video output	IP output 1080p, 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
	Resolution	640*512
Thermal Camera	Digital Zoom	9x Digital Zoom
	Pix Spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength coverage	8~14μm
	Thermal sensitivity NETD	≤50mk@25℃@F1.0
	Video output	Ethernet (RTSP)
	Field angle	13mm lens, FOV: 32.9x26.6
	Measurement function (optional)	Center point, maximum temp and minimum temp display; Support all area temp measurement
Device Size		114mm×154mm×169mm
Working Condition		-10℃ to +45℃ / 20% to 80% RH
Stored Environment		-20℃ to +60℃ / 20% to 95% RH
Main application		UAV aerial photography

Weight	980±10g
Pseudo Color Switching	

Multiple pseudo color modes are displayed, can be switched through command cycle. As shown in the below:



Picture in picture switching network output



Visible light



Visible light +Thermal infrared



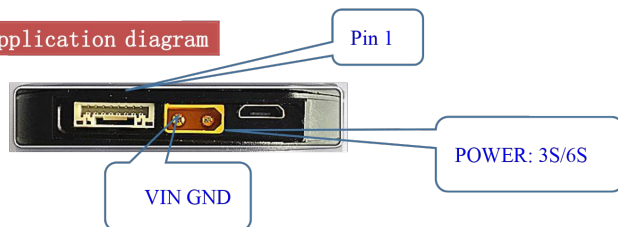
Thermal infrared



Thermal infrared + Visible light

4 picture in picture modes are supported: Single visible mode; Visible light large image + thermal imaging small image mode (default mode); Single thermal imaging mode; Thermal imaging large image + visible light small image mode;

Connection application diagram



No.	Name	Interface part	Interface type	Function
1	8PIN	Power connector	GND	GND
2		Power connector	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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