

Function Future

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

Device Structure

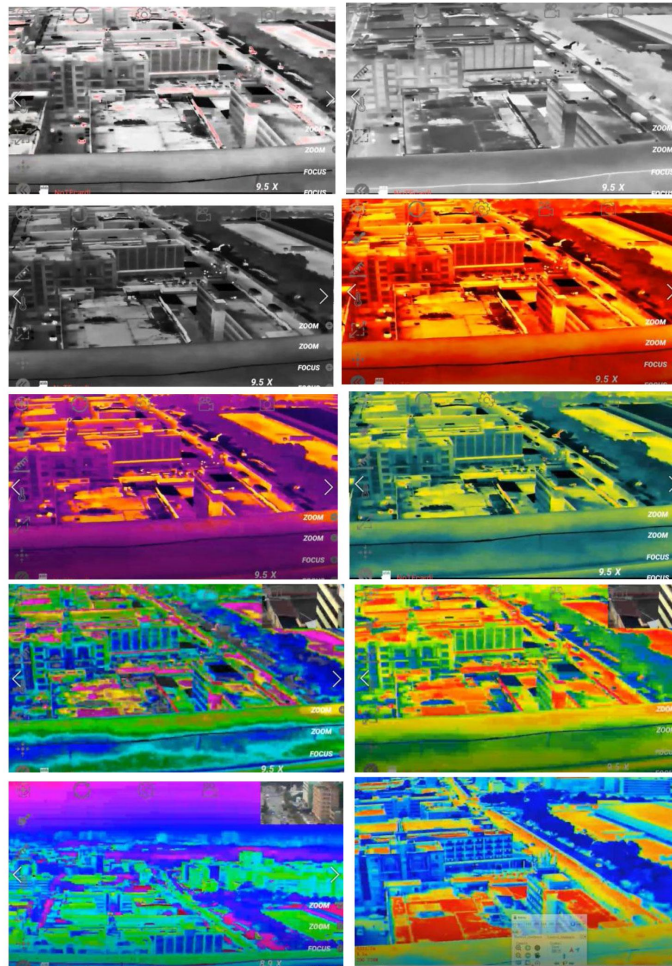




Voltage and Power Supply		3S / 6S, Dynamic7.5W
Working Status	Roll Angle	-45°~+45°
	Pitch Angle	-45°~+135°
	Yaw Angle	360° Stepless rotation
	Angle jitter in Pitch and Roll	±0.02°
	Horizontal angle jitter	±0.03°
	One click return function	One click automatic quick return to the initial position
	PTZ 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/HDMI 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	Network IP output
	Field angle	19mm lens, FOV: 22.9x18.4
	Measurement function (optional)	Center point, maximum temp and minimum temp display; Support all area temp measurement
Device Size		120mm×155mm×175mm
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

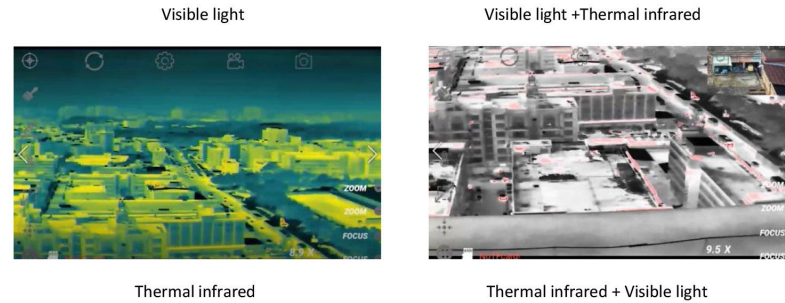
Pseudo Color Switching

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



Picture in picture switching network output





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



6PIN Interface			8PIN Interface		
No.	Signal	Description	No.	Signal	Description
1	RS485+	Standby communication port	1	GND	GND
2	RS485-	Standby communication port	2	SBUS	Signal input
3	IP1 RN	Standby network port	3	UART_TX	TTL serial port receiving
4	IP1 RP	Standby network port	4	UART_TX	TTL serial port sending
5	IP1 TN	Standby network port	5	IP0 RN	Main network interface
6	IP1 TP	Standby network port	6	IP0 RP	Main network interface
			7	IP0 TN	Main network interface
			8	IP0 TP	Main network interface

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