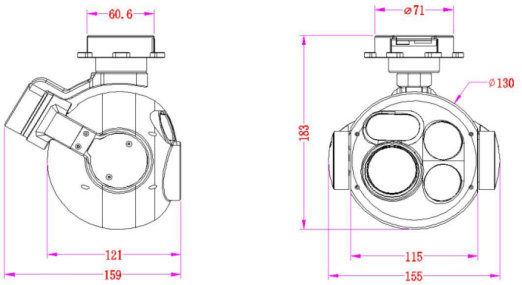
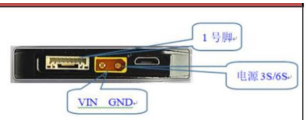
Function Future

- 30x Optical zoom+640*512 thermal infrared
- Thermal imaging temperature measurement, multi-picture in picture mode. M ultiple pseudo color switching
- Single TF card, double channel synchronous video recording
- 1500m laser ranging, video overlay
- Network, serial port synchronization control
- Very low illumination night vision camera
- 1080P Network output, two-way communication
- 3-Axis stabilized gimbal of 1400± 20g

Device Structure





1 GND 2 5V OUT 3 RXD 4 TXD

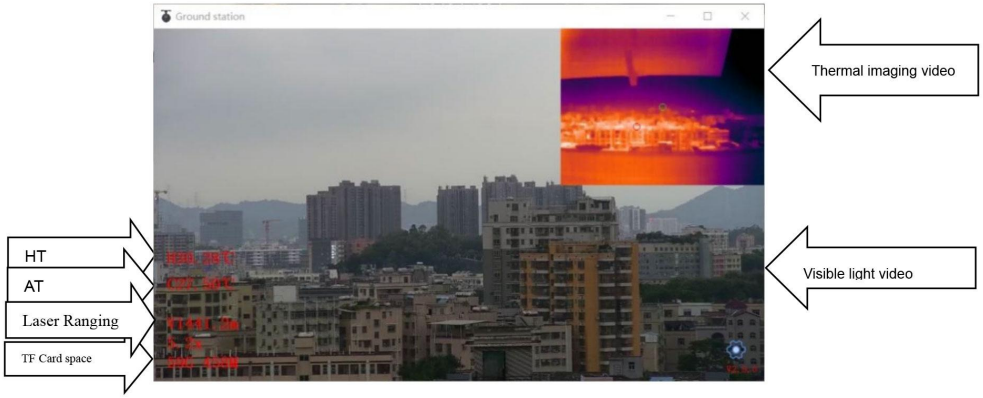
5 DB- 6 DB+ 7 DA- 8 DA+

Different product line order is different, please confirm to connect again

	Voltage	3S(DC12V) / 6S
	Power Supply	TBD wait for testing
PTZ	**Pitch Angle**	-90 to +135° jitter ±0.02
	Yaw Angle	360° Stepless rotation jitter ±0.03°
	Roll Angle	-45 to +45° jitter ±0.02
	Mode	One click automatic quick return to the initial position, Stabilization of fixed with following mode
	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	Speed adaptive control, network IP control and external 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
	Focusing time	Real time focusing, fast focusing time < 1s
	Video output	Network HD RTSP output 1080P and 480P stream, local TF 1080P storage
	Field Angle(FOV)	D : WIDE 67.8º±5% TELE 2.77º±5% H : WIDE 59.8º±5% TELE 2.34º±5% V : WIDE 40.5º±5% TELE 1.48º±5%
	Support Mode	1080P 30fps
Night vision camera parameters	CMOS SIZE	1/1.2 inch two megapixels with very low illumination CMOS SENSOR SNR1S value is 0.07
	LENS	12mm Fixed-focus night vision，FOV：54.7°x30.7°
Ranging	Infrared Wavelength	905nm eye-safe
	Measuring range	5--1500m
	Accuracy of positioning/resolution ratio	Accuracy≤1m；resolution of ranging≤0.1m
Thermal Camera	Resolution	640*512 pixel
	Pix Spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength coverage	8～14μm

	Thermal sensitivity NETD	≤50mk@25℃@F1.0
	Contrast, pseudo-color	multiple pseudo-color modes and can be switching
	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		159mm×155mm×183mm
Working Condition		-10℃ to +50℃ / 20% to 80% RH
Stored Environment		-30℃ to +60℃ / 20% to 95% RH
Main application		UAV aerial photography
Weight		1400±10g

Windows Ground station boot screen



Initial screen of startup

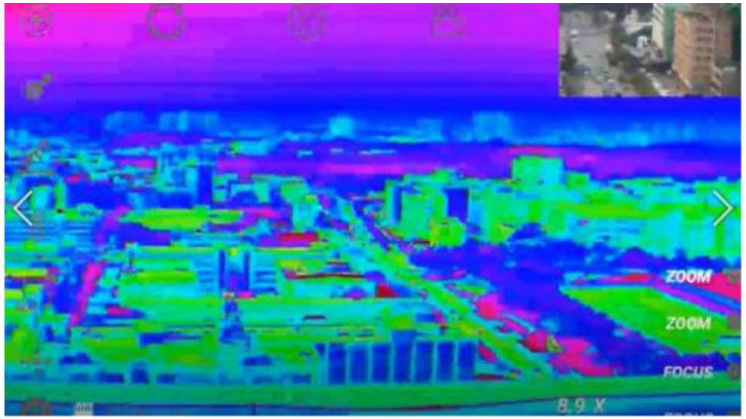
Picture-in-picture mode switching (three-picture phase switching mode can be customized)

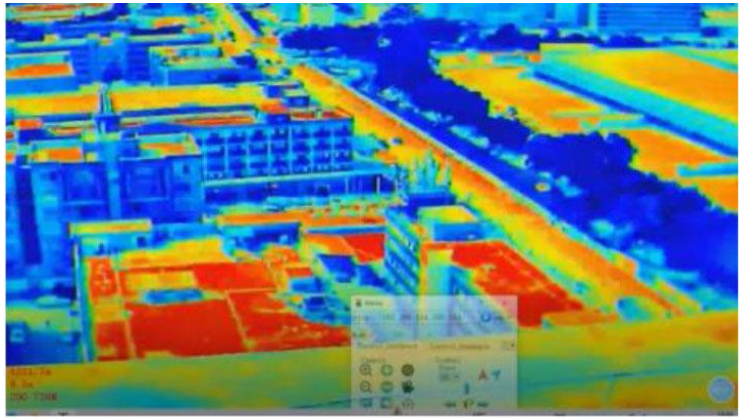
Supports 5 picture-in-picture modes and supports switching between visible light and night vision

1. Single visible light mode
2. Visible light image + thermal image mode (default mode)
3. Single thermal imaging mode
4. Thermal imaging big picture + visible light small picture mode
5. Visible + thermal imaging left and right split screen mode

Visible light

Visible light +Thermal infrared


ZOOM
ZOOM
FOCUS
8.9 X



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