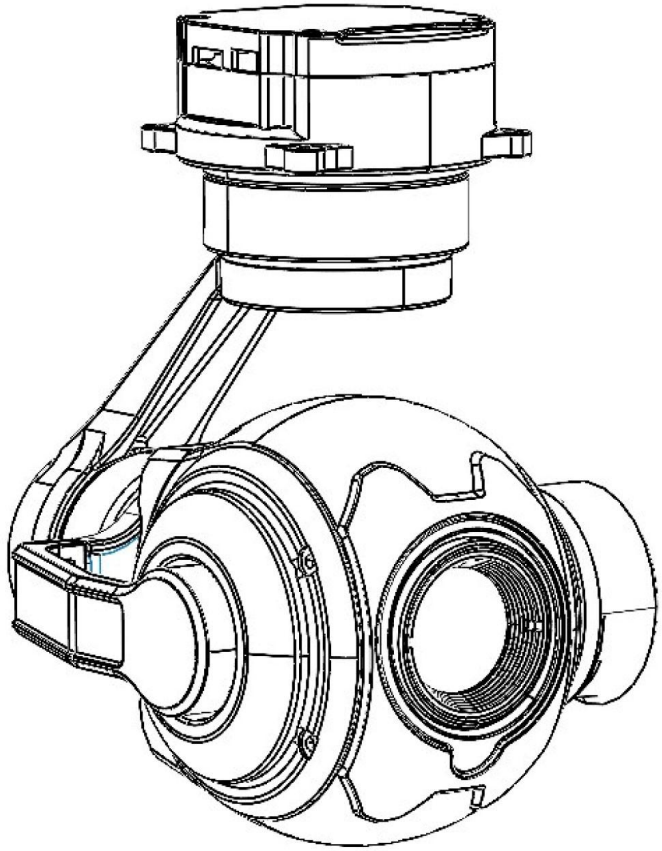
Functional Features

- 19mm 640*512 thermal
- multi pseudo-color mode
- 3-Axis stabilized gimbal
- Lock & Follow mode
- 9x Digital Zoom
- 170ms low latency video streaming
- Ground control software/ app for display and control

Device Structure



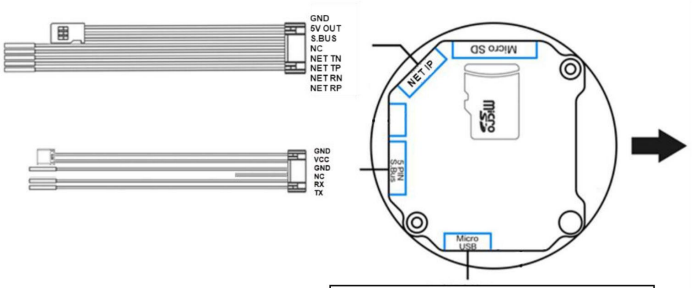
Voltage		3S / 6S
Power Consumption		Dynamic 4W
Thermal Camera	Resolution	640*512 pixel
	Pix Spacing	12μm
	Type	Uncooled vanadium oxide infrared thermal imager
	Wavelength coverage	8～14μm
	Thermal sensitivity NETD	≤50mk@F1.0
	Contrast, Pseudo color	Adjustable, multiple pseudo-color mode
	Lens specification	19mm lens， F1.0, FOV：22.9° x18.4°
	Temperature measuring range	Center point, Lowest, highest temperature display; Area and point temperature measurement
	Working mode	3-axis stabilizer
	Weight	**372±10g**
Roll angle action range		-45~+45°, Jitter ±0.02°
Pitch angle action range		-45~+120°
Yaw angle action range		-280~+280°, Jitter±0.03°
Gimbal Mode		Support one key back to center, Lock/Follow Mode; Angle setting, position reading
Control Mode		PWM, SBUS, UART & UDP control; Ground Control Software/App
Working Condition		-20℃ to +60℃ / 20% to 80% RH
Stored Environment		-40℃ to +70℃ / 20% to 95% RH
Main application		UAV aerial photography

Pseudo Color Switching

Multiple pseudo color mode display, various modes can be switched through command.

As shown in the figure below:

Interface



PTZ parameter adjustment interface
Connecting to computer

Power supply	Power Supply Voltage: 3S-6S lithium battery If the same battery is used to power the cradle head and the aircraft, ensure that the battery voltage meets the specifications of the cradle head and the aircraft.	
Signal Control	1: Serial port control signal input 6Pin terminal block leads to UART control signal, the rest are TTL levelling	
	2: network IP signal	GND: single ground 5V OUT：5V voltage output S．BUS：SBUS control signal NC：Gimbal reserve control signal NET TN：network IP signal NET TP：network IP signal NET RN：network IP signal NET RP：network IP signal
	3: Serial port control signal output	RX：connect external device TX TX：connect external device RX
Video Output	Ethernet (standard RTSP stream)	
TF Card Storage	Micro SD card with a maximum capacity of 128GB are supported; As the PTZ camera requires fast reading and writing of 1080P video data, please use a Micro SD card of Class 10/UHS-1 or above to ensure proper video recording. Note: Please do not pull out the Micro SD card during the recording process, otherwise the images obtained during the recording process may be lost.	
Parameters Adjustments	Connect to the PTZ parameters adjustments port via the Micro-USB cable.	

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