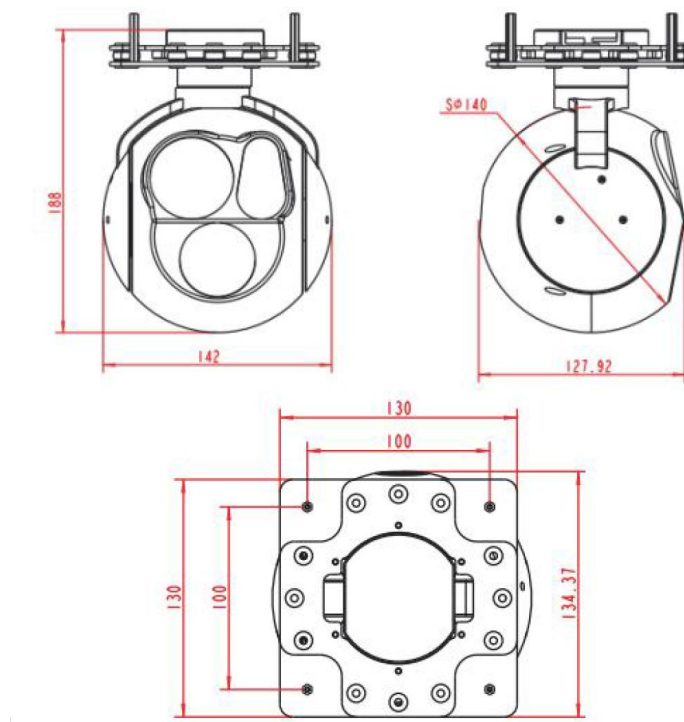


Features


- Rapid Focusing
- High Precision, High Coordination Control Algorithm
- Thermal Imaging with Digital Zoom
- AI Target Detection and Tracking
- Card reading online - HTTP read pictures and videos
- Provides Integrated Ground Station Software

Structure



Note①: 140 hybrid zoom refers to 20x optical zoom plus 7x digital zoom

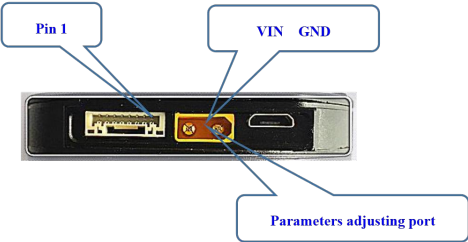
Note②: The UART refers to: 3.3V, LVTTTL UART.

		
Voltage		DC 12V-26.2V②
Power Supply		Dynamic 8W
Working characteristics	Pitch Angle	-20~+100°
	Yaw Angle	±360° *N
	Angle jitter in pitch and roll	±0.02°
	Horizontal angle jitter	±0.03°
	One-click return to center function	Automatically and quickly return to the initial position with one click
	Adjustable control speed	When the gimbal rotates, speed adaptation is based on the current speed mode and visible light camera magnification.
	Control method	Support Network IP and serial port control (Optional S.BUS and PWM control available)
EO Parameters	CMOS Size	1/1.8inch 8 mega pixel high dynamic range CMOS SENSOR with 2x lossless zoom
	Optical Zoom	High-definition Optical Zoom Sensor, f=6.7±5%~125±5%mm
	Focusing Time	Real-time rapid focusing feature with focusing time less than 1 second.
	Video Output	IP network output video stream, local TF card storage
	Field of View (FOV)	D : WIDE 66.6°±5% TELE 4.0°±5% H : WIDE 59.6°±5% TELE 3.5°±5% V : WIDE 35.7°±5% TELE 2.0°±5%
	Support Mode	4k 1080P 30fps
IR Parameters	Resolution	640×512
	Pixel spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength range	8~14 μ m
	Thermal sensitivity (NETD)	≤50mk@25℃
	Field of view (FOV)	35mm Lens, FOV: 12.5°x10°
Laser Range Finder	Wavelength	1535nm (Eye-safe for humans)
	Measurement	20--4000m (Must not be directed at objects less than 20 meters away)
	Accuracy/Resolution	Accuracy≤±2m; Resolution: ≤20m
Target recognition and tracking	Min tracking target size	16×16 pixels
	Max tracking target size	256×256 pixels
	Target Memory Time	2 seconds
	Max Tracking speed	50 Pixel/Frame

	Simultaneous detection qty	100 targets max
	Recognized categories	Human and Vehicle
	Min detection target size	32×32 pixels
	Dimension	142mm×188mm×127.92mm
	Work Condition	-10℃ to +55℃ / 20% to 80% RH
	Storage Condition	-20℃ to +60℃ / 20% to 95% RH
	Application	UAV aerial photography
	Weight	1209±20 grams

Note ②: Voltage: DC12V~26V. Please note that the instantaneous voltage of the power supply cannot exceed 27V.

Connection application diagram



Number	Model	Interface Type	Interface definition	Function
1	8 PIN	Power Ground	GND	GND
2		Power Interface	5V	+5V Output
3		Communication Interface	RX	Serial port receiving
4		Communication Interface	TX	Serial port sending
7		Communication Interface	Rx-	Network Interface
8		Communication Interface	Rx+	Network Interface
9		Communication Interface	Tx-	Network Interface
10		Communication Interface	Tx+	Network Interface

Model	Interface Type	Function	Remarks
Memory Card Interface	TF Card	Data Upgrade, Storage	Memory card interface is located on the sphere.

*Due to product upgrades,there may be slight changes in appearance/size/weight/power consumption. Please contact sales for recent data. We apologize for any inconvenience it may cause.

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