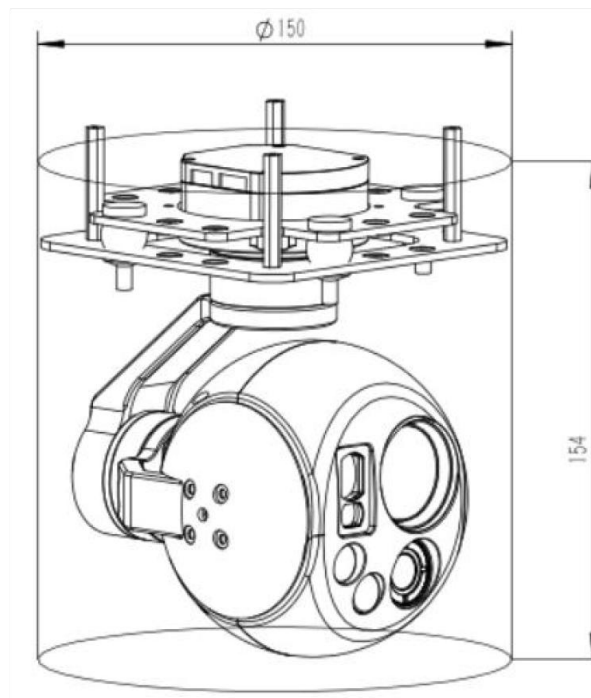


Function characters

- 10x optical zoom
- 640*512 thermal imaging
- 5-1500 laser rangefinder
- supplementary lights
- 9x digital zoom
- 170ms low latency
- visible light video and thermal imaging video dual records

Structure

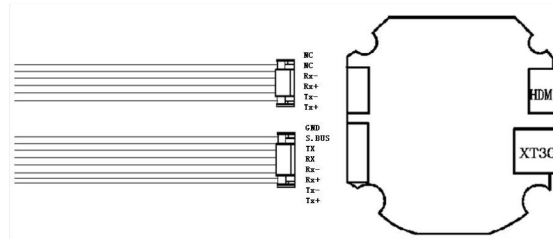


Note①: The serial port refers to: 3.3V, LVTTTL UART”.



Voltage		DC12V-26.2V②
Power		Static 8W
Gimbal Parameter	Roll angle	-45° ~ +45°
	Pitch Angle	-35° ~ +110°
	Yaw Angle	-295° ~ +295°
	Angle jitter in pitch and roll direction	±0.02°
	Horizontal Angle jitter	±0.03°
	One-click return to the center function	Quick return to initial position with one click
	Adjustable Gimbal Speed	When the gimbal rotates, speed adaptation is based on the current speed mode and visible light camera magnification.
	Control Mode	UDP/UART/SBUS (OPTIONAL PWM)
Visible Light Camera	Sensor CMOS SIZE	1/3" CMOS SENSOR: 4 Mega Pixels
	Optical Zoom	10 x optical zoom+9x digital zoom; f=5.15±5%~47.38±5%mm
	Focus time	Real-time fast focusing function, focusing time <1S
	Video output	Ethernet (RTSP) and HDMI @1080P/30FPS;
	Field Angle (FOV)	D : WIDE 69.5°±5% TELE 7.95°±5% H : WIDE 61.5°±5% TELE 7.00°±5% V : WIDE 35.0°±5% TELE 3.97°±5%
Thermal Imaging Sensor	Resolution	640x512
	Pix Spacing	12μm
	Type	Uncooled Vanadium Oxide Detector
	Wavelength	8~14μm
	Thermal Sensitivity (NETD)	≤50mk@F1.0@25℃
	Field of Angle	13mm lens, FOV: 33× 26
	Temperature Measurement	Global temperature measurement, Optional full-pixel temperature saving function
Laser Rangfind er	Wavelength	905nm ± 5nm (Class I)
	Detect range	5—1500 meters
	Laser safety class	Class I
	Accuracy	≤1m
Device size		150mm×154mm
Work environment		-10℃ to +45℃ / 20% to 80% RH

Connection Application Diagram



Item	Model	Interfaces	Definition	Function
1	6PIN Socket	Signal	NC	Reserved
2		Signal	NC	Reserved
3		Signal	Rx-	Network
4		Signal	Rx+	Network
5		Signal	Tx-	Network
6		Signal	Tx+	Network

Item	Model	Interfaces	Definition	Function
1	8PIN Socket	Signal	GND	GND
2		Signal	S.BUS	S. BUS Input
3		Signal	TX	UART sending
4		Signal	RX	UART receiving
5		Signal	Rx-	Network Transmission
6		Signal	Rx+	Network Transmission
7		Signal	Tx-	Network Transmission
8		Signal	Tx+	Network Transmission

Model	Interfaces	Function	Remarks
Mini_HDMI	HDMI	Video Output Interface	
Memory Card	Micro-sd card	Upgrade and Store data	on the sphere

***Due to product upgrade, appearance/size/weight/power consumption may change slightly. Please contact sales for the latest data.**

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