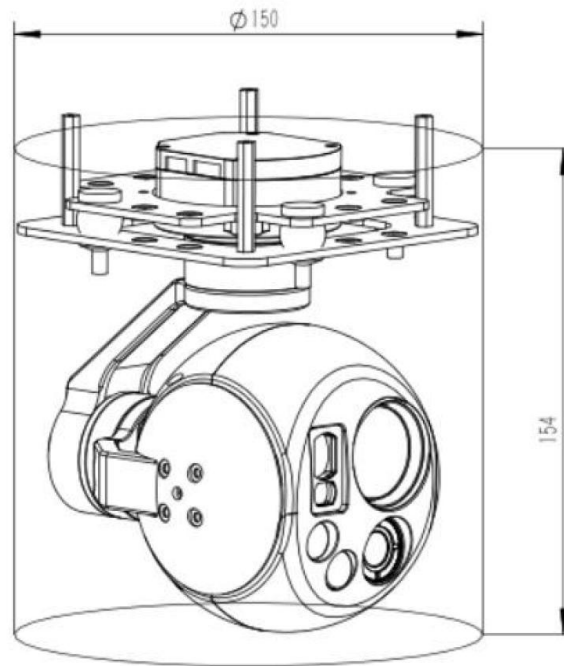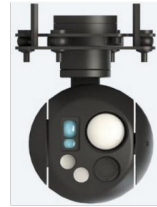## Function characters

- 10x optical zoom

- 640*512 thermal imaging

- 5-1500 laser rangefinder

- supplementary lights

- 9x digital zoom

- AI Target Detection and Tracking

Structure

Note①: The serial port refers to: 3.3V, LVTTL UART".

Voltage	DC12V-26.2V②		
Power	Static 7.2W		
Gimbal Parameter	Roll angle	-45°～+45°	
	Pitch Angle	-30°～+100°	
	Yaw Angle	-285°～+285°	
	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) @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 Rangfinder	Wavelength	905nm ±5nm（Class I)	
	Detect range	5—1500 meters	
	Laser safety class	Class I	
	Accuracy	≤1m	
Target recognition and tracking	Min tracking target size	16×16 pixels	
	Max tracking target size	256×256 pixels	
	Target Memory Time	2 seconds	
	Tracking speed	50 Pixel/Frame max	

	Simultaneous detection qty	100 targets max
	Recognized categories	Human and Vehicle
	Min detection target size	32×32 pixels
Device size		150mm×154mm
Work environment		-10℃ to +60℃ / 20% to 80% RH
Storage environment		-20℃ to +80℃ / 20% to 95% RH
Weight		650±20g

Note②: The voltage is DC12V~26.2V. It should be noted that the instantaneous voltage of the power supply cannot exceed 27V.

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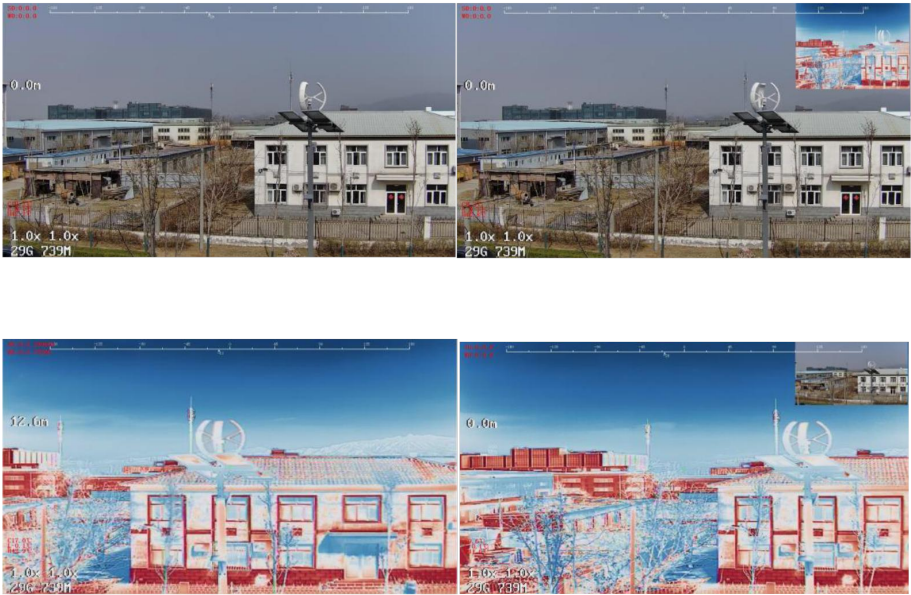
Connection Application Diagram
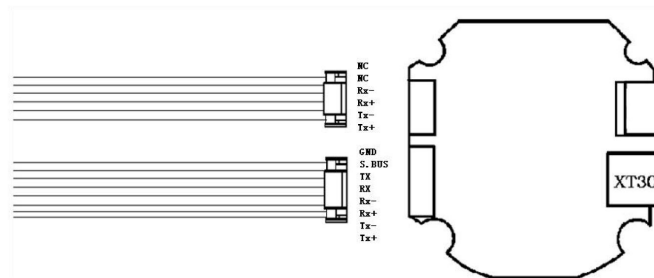
Item	Model	Interfaces	Definition	Function
1		Signal	GND	GND
2		Signal	S.BUS	S. BUS Input
3		Signal	TX	UART sending
4	8PIN Socket	Signal	RX	UART receiving
5		Signal	Rx-	Network Transmission
6		Signal	Rx+	Network Transmission
7		Signal	Tx-	Network Transmission
8		Signal	Tx+	Network Transmission

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

Model	Interfaces	Function	Remarks
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.

CONTACT CHINA MONEYPRO GROUP NOW:

EMAIL: SALES@MONEYPROUAV.COM

MOBILE: +86-18126437260 (WHAT'S UP) MS.AMY LUO