

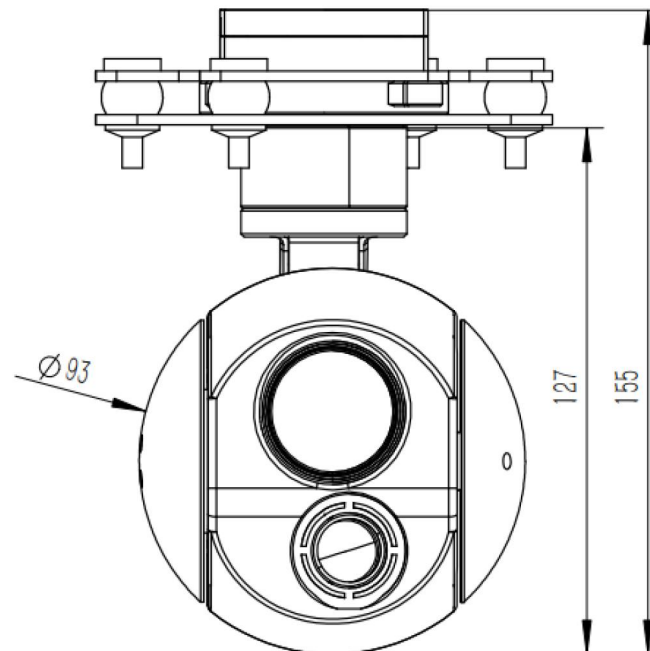
Function characters

- 10x optical zoom
- 850nm infrared laser illumination
- 9x digital zoom
- AI target detection and tracking
- Provides Integrated Ground Station Software
- Weight:590g

NOTE①:90x mixed zoom:10x optical zoom*9x digital zoom

NOTE②: Serial port refers to: 3.3V, TTL UART.

Structure





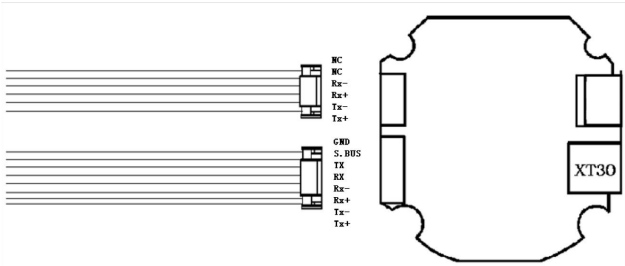
Voltage		DC12V-26.2V③
Power		Dynamic 16W
Gimbal Parameter	Roll angle	-45° ~ +45°
	Pitch Angle	-30° ~ +95°
	Yaw Angle	-295° ~ +295°
	Angle jitter in pitch and roll direction	±0.02°
	Horizontal Angle jitter	±0.03°
	One-click return to the center function	Quick return to initial position with one click
	Adjustable Gimbal Speed	When the gimbal rotates, speed adaptation is based on the current speed mode and visible light camera magnification.
	Control Mode	IP and UART command control, SBUS control (PWM control optional)
Visible Light Camera	Sensor CMOS SIZE	1/2.8 inch 2M Pixels Wide CMOS SENSOR
	Optical Zoom	10 x HD optical zoom lens, f=5.15±5%~47.38±5%mm
	Focus time	Real-time fast focusing function, focusing time <1S
	Video output	Ethernet RTSP video output at 1080P and record video data on local TF card
	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%
	Support Mode	1080P 30fps
Infrared Laser Illumination	Central Wavelength	850nm± 8nm
	Minimum Emission Angle	2° ±0.2°
	Maximum Emission Angle	52° ± 2°
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
Device size		144mm×155mm
Work environment		-10°C to +45°C / 20% to 80% RH
Storage environment		-20°C to +60°C / 20% to 95% RH

Work environment	-10℃ to +45℃ / 20% to 80% RH
Storage environment	-20℃ to +60℃ / 20% to 95% RH
Weight	590±20g

Note③: Voltage: DC12V~26.2V. Please note that the instantaneous voltage of the power supply cannot exceed 27v.

Connection Application Diagram

Electrical interface



No.	Name	Interface Type	Interface definition	Function
1	6PIN	communication interface	NC	Reserved Interface
2		communication interface	NC	Reserved Interface
3		communication interface	Rx-	Network interface
4		communication interface	Rx+	Network interface
5		communication interface	Tx-	Network interface
6		communication interface	Tx+	Network interface

No.	Name	Interface part	Interface definition	Function
1	8PIN	Communication Interface	GND	GND
2		Communication Interface	S.BUS	S.BUS input
3		Communication Interface	TX	Serial port sending
4		Communication Interface	RX	Serial port receiving
5		Communication Interface	Rx-	Network interface
6		Communication Interface	Rx+	Network interface
7		Communication Interface	Tx-	Network interface
8		Communication Interface	Tx+	Network interface

Name	Interface Type	Function	Note
Memory card interface	TF Card	Upgrade and data storage	Memory card interface is located on the sphere.

* Due to product upgrade, appearance/size /Weight/ power consumption may be slightly changed, please contact sales for the latest data, thank you for your understanding.

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