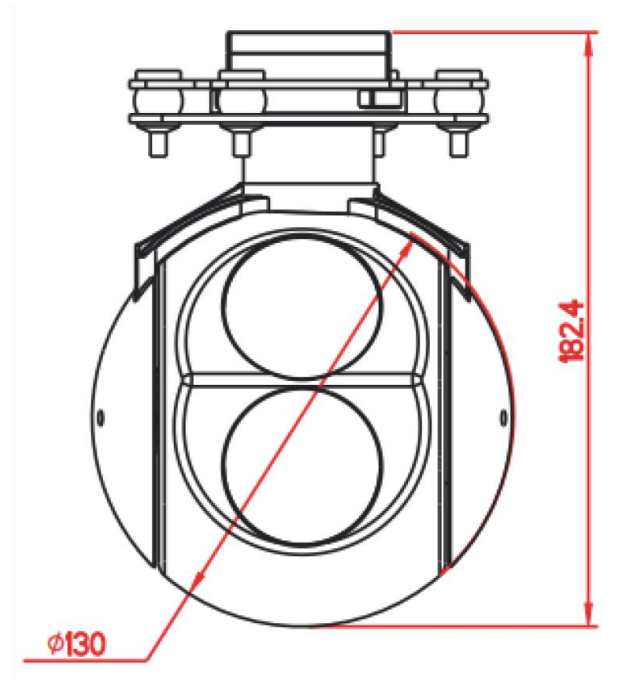


### Functional Features

- Quick Focus
- Day/Night Switching Mode
- AI Target Detection and Tracking
- High precision, high coordination control algorithm
- Both EO&IR video recording, network remote access to TF card
- 2-Axis Stabilization Pod,  $988 \pm 20\text{g}$

### System composition



Note①: 140X Hybrid zoom means: 20X optical Zoom\*7X Digital Zoom.

Note②: UART means: 3.3V, LVTTTL UART.



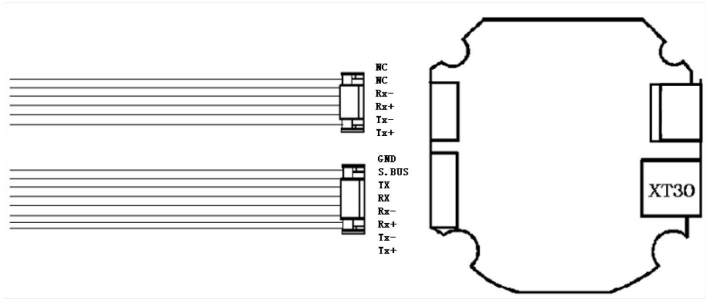
Voltage		DC12~26.2V③
Power Supply		Dynamic 12W
Gimbal	Yaw Angle	-285° ~ +285°
	Pitch Angle	-15° ~ +110°
	Pitch and Roll Jitter Angle	±0.02°
	Horizontal Jitter Angle	±0.03°
	One-Click Restore	One-click restore to the initial position
	Adjustable Gimbal Speed	When the gimbal rotates, the speed is adapted based on the current speed mode and the visible light camera multiple.
	Control Modes	Support network IP control, S.BUS control, UART control (PWM control is optional)
	CMOS SENSOR	1/1.8 Inch 8 mega pixel wide dynamic CMOS SENSOR
Zoom EO	Optical Zoom	20x HD optical zoom lens, f=5.15±5%~47.38±5%mm
	AF Time	Real time fast focusing, focusing time < 1s
	Video Output	Network output RTSP stream, local TF card storage
	Field Angle (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%
	Resolution	640×512
Thermal Imaging	Pixel spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength range	8~14μm
	Temperature measurement range	-20℃ ~+150℃, 0~550℃
	Field of view	35mm Lens, Field of view: 12.5°x 10.0°
	Measurement function (optional)	Support global temperature measurement, optional full pixel temperature saving function
	Minimum tracking target size:	16×16 pixel
	Maximum tracking target size:	256×256pixel
Target recognition and tracking	Maximum occlusion time:	2s
	Maximum speed supported:	50pixel/frame
	Maximum number of recognition:	100
	Recognized categories:	Human and vehicle
	Minimum recognized size:	32×32 pixel
Size		φ130mm*182.4mm

Operating Environment	-10℃ to +55℃ / 20% to 80% RH
Storage Conditions	-20℃ to +60℃ / 20% to 95% RH
Main application	UAV/Drone Photography
Weight	988±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	485+	485 interface
2		communication interface	485-	485 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 type	Function
1	8PIN	power interface	GND	GND
2		power interface	SBUS	SBUS input
3		Communication Interface	TXD3	Serial sending
4		Communication Interface	RXD3	Serial receiver
5		Communication Interface	Rx-	Network Interface
6		Communication Interface	Rx+	Network Interface
7		Communication Interface	Tx-	Network Interface
8		Communication Interface	GND	Network Interface
Model	Interface Type	Function	Note	
Memory card interface	TF Card	Upgrade and data storage		

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

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