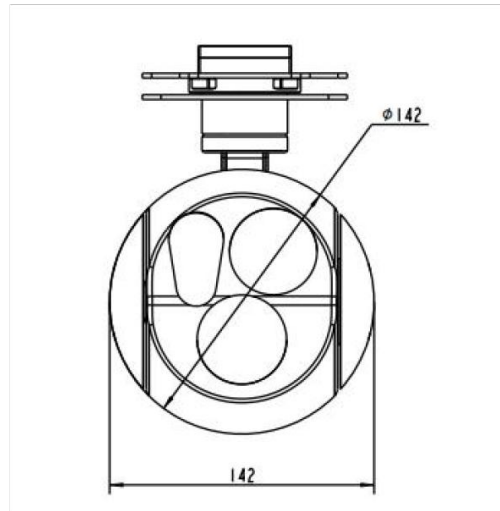## Functional Characteristics

- 140X Hybrid Zoom[①]

- 1280 IR 25mm Focus Length

- 3000m LRF

- Network/UART[②]/S.BUS Control

- AI Object Detection and Tracking

- Three-axis stabilization pod，1390±20g

Structure

Note①：140x hybrid zoom means: 20x visible light optical zoom + 7x digital zoom.
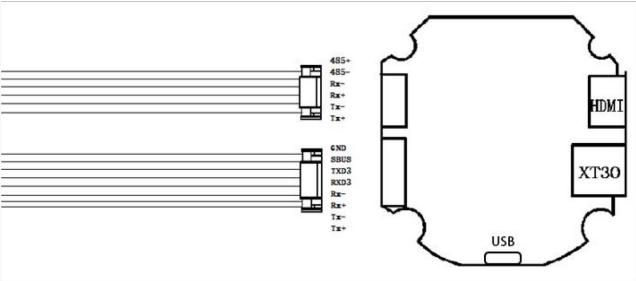
Note②：Serial port refers to：3.3V，LVTTL UART.

Voltage		DC12～26.2V
Power		Dynamic 10W
Gimbal	**Roll angle**	－ 45°～ ＋45°
	Pitch Angle	-30°～+110°
	Yaw Angle	-285°～+285°
	Angle jitter in pitch and roll directions	±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	Support network IP control, serial port control, S.BUS control (PWM control is optional)
Optical Zoom EO	**Sensor CMOS SIZE**	1/1.8 INCH mega pixel Wide dynamic range CMOS SENSOR
	Optical Zoom	20x HD optical zoom lens, f=6.7～125 mm ±5%
	Focus time	Real-time fast focus function, focusing time <1S
	Video output	Network output RTSP 1080P stream, local TF 1080P 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%
	Support Mode	1080P 30fps
LRF	**Infrared wavelength**	1535±10nm
	Measuring range	50m~3000m
	Accuracy/resolution	±1m；resolution≤40m
Thermal	**Resolution**	1280x1024
	Pixel spacing	12μm
	Type	Uncooled Vanadium Oxide Detector
	Wavelength range	8～14μm
	Thermal sensitivity(NETD)	≤50mk@F1.0@25℃
	Contrast, false color	Adjustable, multiple pseudo color modes
	Field of Angle	25mm lens，Field of Angle：34.2°x 27.6°
	Measurement functions	Support global temperature measurement, optional full pixel temperature saving function
Target recognition and tracking	**Min tracking target size**	16×16 pixel
	Max tracking target size	256×256 pixel
	Target Memory Time	2s
	Tracking speed	50 Pixel/Frame max
	Simultaneous detection qty	100 targets max
	Recognized categories	Human and Vehicle
	Min detection target size	32×32 pixel
HDMI Mode		1080P 60fps
Size		142*208.2*166.74

Work environment	-10℃ to +55℃ / 20% to 80% RH
Storage environment	-20℃ to +60℃ / 20% to 95% RH
Application	UAV aerial photography
Weight	1390±20g

Note ③: Voltage: DC12V~26.2V. Please note that the instantaneous voltage of the power supply cannot exceed 27V.

Connection Application Diagram

Electrical interface

Item	Model	Interfaces	Definition	Function
1	8PIN	Communication interface	GND	GND
2		Communication interface	SBUS	SBUS Input
3		Communication interface	TXD3	Serial port sending
4		Communication interface	RXD3	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

Item	Model	Interfaces	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

Model	Interface	Function	Mark
Memory card interface	TF Card	Upgrade and store data	Memory card interface 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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