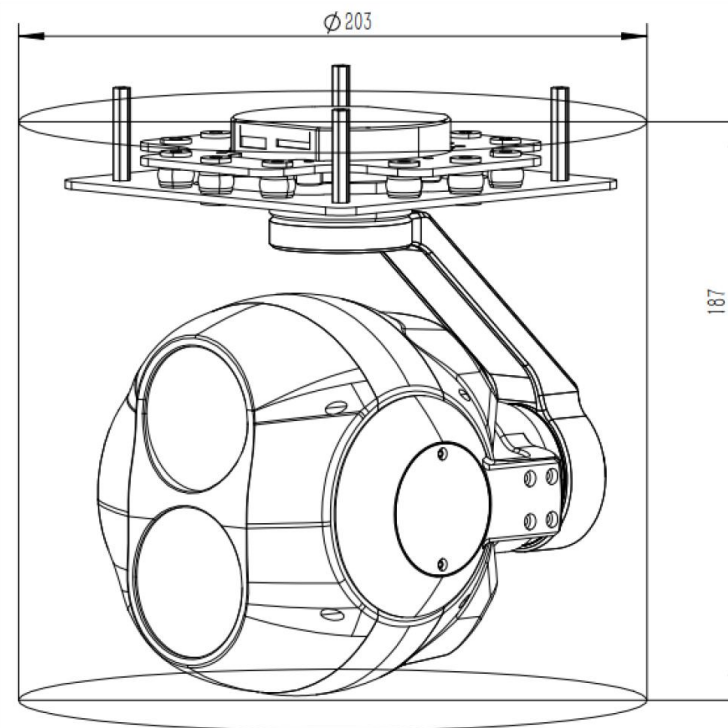


Function Future

- 140x mixed zoom ^① camera
- 1280×1024 Thermal Imaging
- AI tracking
- Four Picture in Picture Modest
- Ethernet dual output
- Photo and video record, TF card storage
- 3-Axis stabilized gimbal
- SBUS/UART/UDP/PWM control

Device Structure



NOTE①:140x mixed zoom:20x optical zoom+7x digital zoom



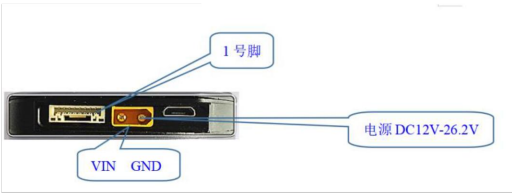
Voltage		DC12~26.2V③
Power Supply		Dynamic 8W
Gimbal	Roll Angle	- 45° ~ + 45°
	Pitch Angle	-30° ~ +100°
	Yaw Angle	360°
	Pitch and Roll Jitter Angle	±0.02°
	Horizontal Jitter Angle	±0.03°
	One-Click Restore	One-click restore to the initial position
	Adjustable Gimbal Speed	When the gimbal rotates, the 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)
Zoom EO	CMOS SENSOR	1/1.8 INCH 8 mega pixel wide dynamic CMOS SENSOR
	Optical Zoom	20x HD optical zoom lens, f=6.7~125 mm ±5%
	AF Time	Real time fast focusing, 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	4K 1080P 30fps
	Resolution	1280X1024 pixel
Thermal Imaging	Pixel spacing	12μm
	Type	Uncooled vanadium oxide
	Wavelength range	8~14μm
	Thermal sensitivity (NETD)	≤40mk@F1.0@25℃
	Contrast, pseudo color	Adjustable, multiple pseudo color modes
	Field of view	25mmLens, Field of view: 34.2×27.6°
	Measurement function (optional)	Support global temperature measurement, optional full pixel temperature saving function
	Target recognition and tracking	
Target recognition and tracking	Minimum tracking target size:	16×16 pixel
	Maximum tracking target size:	256×256pixel
	Maximum occlusion time:	2s

	Maximum speed supported:	50pixel/frame
	Maximum number of recognition:	100
	Recognized categories:	Human and vehicle
	Minimum recognized size:	16×16 pixel
Dimension		132mm * 60mm*194mm
Operating Environment		-10℃ to +55℃ / 20% to 80% RH
Storage Conditions		-20℃ to +60℃ / 20% to 95% RH
Main application		UAV/Drone Photography
Weight		1450±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 part	Interface type	Function
1	8PIN	power interface	GND	GND
2		power interface	5V	+5V output
3		Communication Interface	RxD4	Serial receiver
4		Communication Interface	TxD4	Serial sending
5		Communication Interface	DB-	Network Interface
6		Communication Interface	DB+	Network Interface
7		Communication Interface	DA-	Network Interface
8		Communication Interface	DA+	Network Interface

	Interface Type	Function	Note
TF Card Slot	TF Card	Upgrade and data storage	TF Card Slot is on the camera

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

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