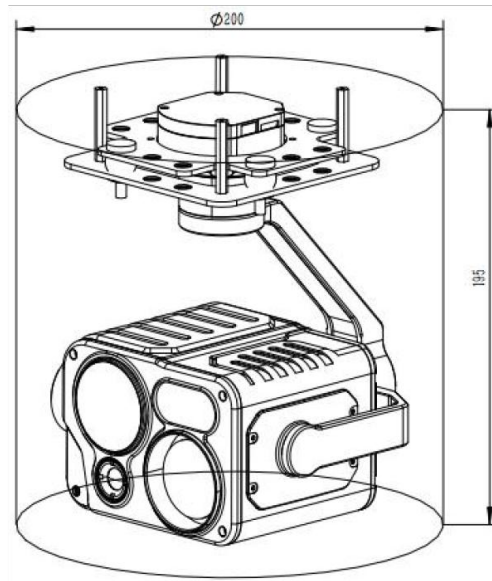


Functional Characteristics

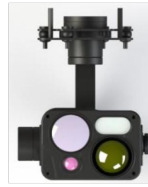
- 270X mixed optical zoom^①
- 1080P fixed-focus EO
- 1800m laser range finder
- 640 IR thermal imaging with 35mm focal length
- Multiple Picture-in-picture mode
- Network/UART^②/S.BUS control
- 3-axis stabilize PTA ,1200±20g
- Single FT-card,two-ways recording

System Components



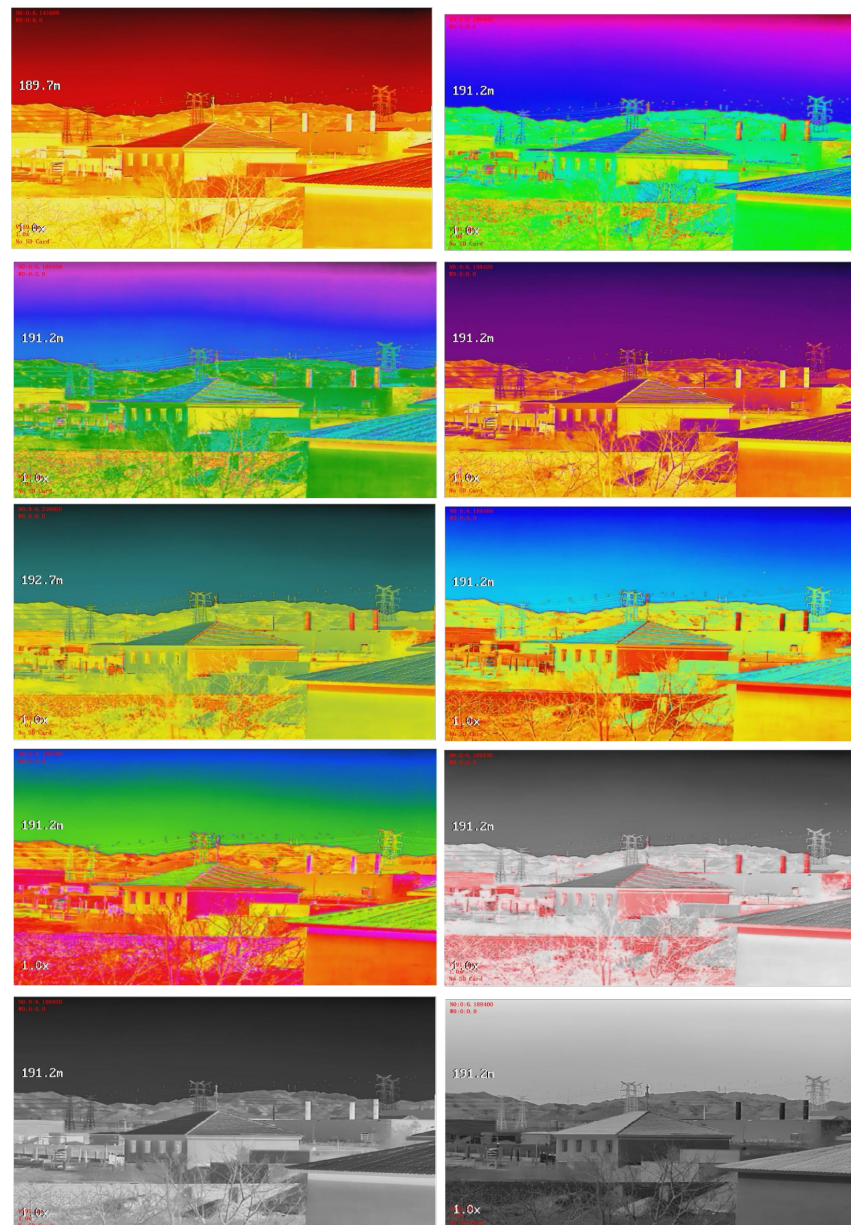
NOTES①: 270X optical zoom: 30x optical zoom+9x digital zoom。

NOTES② : UART: 3.3V, LVTTTL UART。



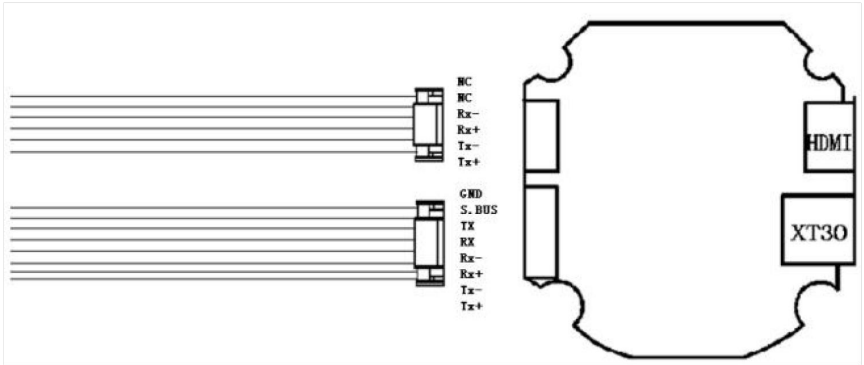
Voltage		DC12~26.2V③
Power Consumption		Dynamic 10W
PTZ	Roll angle range	- 45° ~ + 45°
	Pitch angle range	-30° ~ + 120°
	Yaw angle action range	-280° ~ +280°
	Pitch and roll direction angular jitter	±0.02°
	Amount of horizontal angular jitter	±0.03°
	One-click return to center function	One click automatic quick return to the initial potion lock/follow mode
	PTZ control speed is adjustable	When the gimbal rotates, it performs speed adaptation based on the current speed mode and visible light camera multiple.
	Control mode	Supports network IP control and serial port control (optional PWM control)
Optical zoom	CMOS sensor	1/2.8 inch 2 mega pixels wide dynamic COMOS Sensor
	Optical zoom	30x HD optical zoom camera, f=4.5~135 mm ±5%
	Focus time	Real-time fast focusing function, focusing time <1S
	Video output	Network RTSP 1080P stream,local TF 1080Pstorage
	(FOV)	D : WIDE 67.8° ±5% TELE 2.77° ±5%、 H : WIDE 59.8° ±5% TELE 2.34° ±5%、 V : WIDE 40.5° ±5% TELE 1.48° ±5%
1080P EO	CMOS sensor	CMOS SENSOR pixel: 2 mega pixel
	Digital zoom	Support 9x digital zoom
	Compressed storage mode	H264, H265,Video streaming local TF storage
	(FOV)	FOV: 94.6° × 86.6°
	Support mode	1080P 30fps
Laser range finder	Infrared Wavelength	905nm (class I Safety laser)
	measuring range	5m~1800m
	Accuracy/resolution	Accuracy 400m innerside±1m, 400m outside, ±0.4%; resolution 0.1m
IR thermal imaging	Resolution	640×512 pixel
	Pixel spacing	12μm
	Types	Uncooled focal plane microbolometer
	Wavelength coverage	8~14μm
	Heat sensitivity(NETD)	≤50mk@F1.0

Pseudo-color switching



Connection application diagram

Electrical interface



No.	Types	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.	Type	Interface Type	Interface Definition	Function
1	8PIN	Communication interface	GND	GND
2		Communication interface	S.BUS	S. BUS input
3		Communication interface	TX	UART transmit
4		Communication interface	RX	UART 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

Type	Interface Type	Function	Remarks
Mini_HDMI	HDMI	Video output interface	
Memory card interface	TF	Upgrade and store data	The memory card interface is on the sphere

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

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