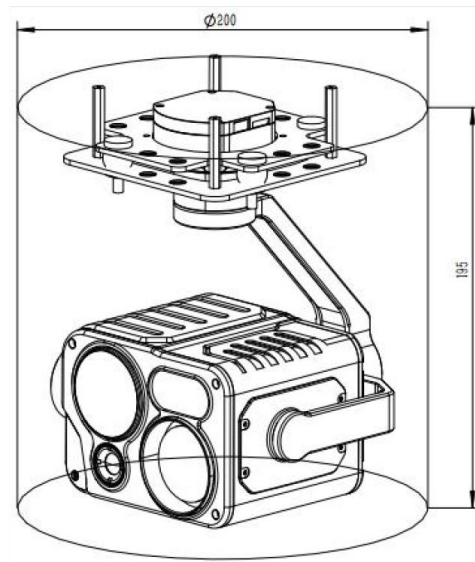


## Functional Characteristics

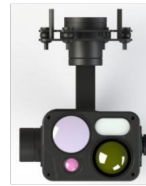
- 210X mixed optical zoom<sup>①</sup>
- 1080P fixed-focus EO
- 3000m laser range finder
- 640 IR thermal imaging with 35mm focal length
- AI Target Detection and Tracking
- Network/UART<sup>②</sup>/S.BUS control
- 3-axis stabilize PTA , 1120±20g
- Single FT-card,two-ways recording

## System Components



NOTES<sup>①</sup>: 210X optical zoom: 30x optical zoom+7x digital zoom.

NOTES<sup>②</sup> : UART: 3.3V, LVTTTL UART.



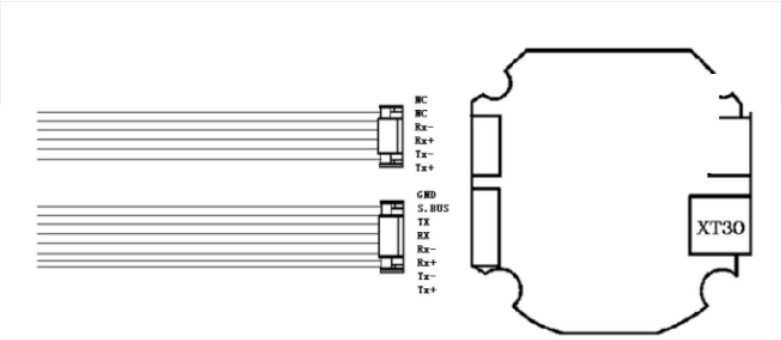
|                    |                                         |                                                                                                                           |
|--------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Voltage            |                                         | DC12~26.2V®                                                                                                               |
| Power Consumption  |                                         | Dynamic10W                                                                                                                |
| 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 SBUS control and PWM control)                               |
| Optical zoom       | CMOS sensor                             | 1/2.8 inch 8 mega pixels wide dynamic COMOS Sensor                                                                        |
|                    | Optical zom                             | 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%<br>H : WIDE 59.8°±5% TELE 2.34°±5%<br>V : WIDE 40.5°±5% TELE 1.48°±5%                     |
|                    | Support mode                            | 1080P 30fps                                                                                                               |
| 1080P EO           | CMOS sensor                             | CMOS SENSOR pixel: 200 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                     | 1535±5nm (class I Safety laser)                                                                                           |
|                    | measuring range                         | 20m~3000m                                                                                                                 |
|                    | Accuracy/resolution                     | Better than ±1m(RMS)                                                                                                      |
| 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                                                                                                                |

|                                 |                                 |                                                                                         |
|---------------------------------|---------------------------------|-----------------------------------------------------------------------------------------|
|                                 | heat sensitivity(NETD)          | ≤50mk@F1.0                                                                              |
|                                 | Contrast, pseudo-color          | Adjustable, multiple pseudo-color modes                                                 |
|                                 | FOV                             | 35mm focal length, FOV: 12.52°× 10.03°                                                  |
|                                 | Measuring function              | Support global temperature measurement, optional full pixel temperature saving function |
| Target recognition and tracking | Minimum tracking target size:   | 16×16 pixels                                                                            |
|                                 | Maximum tracking target size:   | 256×256 pixels                                                                          |
|                                 | Maximum occlusion time:         | 2 seconds                                                                               |
|                                 | Maximum speed supported:        | 50 pixels/frame                                                                         |
|                                 | Maximum number of recognitions: | 100                                                                                     |
|                                 | Recognized categories:          | people and cars                                                                         |
|                                 | Minimum recognized size:        | 32×32 pixels                                                                            |
| Size                            |                                 | φ :200mm H:195mm                                                                        |
| work environment                |                                 | -10°C to +45°C / 20% to 80% RH                                                          |
| Storage environment             |                                 | -30°C to +60°C / 20% to 95% RH                                                          |
| Application                     |                                 | Drone aerial photography                                                                |
| Weight                          |                                 | 1120±20g                                                                                |

notes③: voltage :DC12V~26.2V , Note that the instantaneous voltage of the power supply cannot exceed 27V.

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 pin | 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                                    |
|-----------------------|----------------|------------------------|--------------------------------------------|
| Memory card interface | TF             | Upgrade and store data | The memory card interface is on the sphere |

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