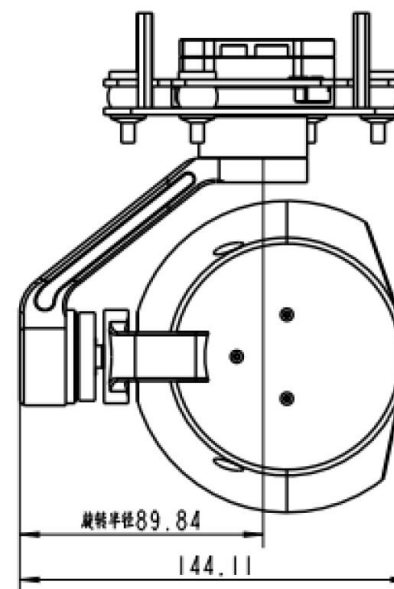
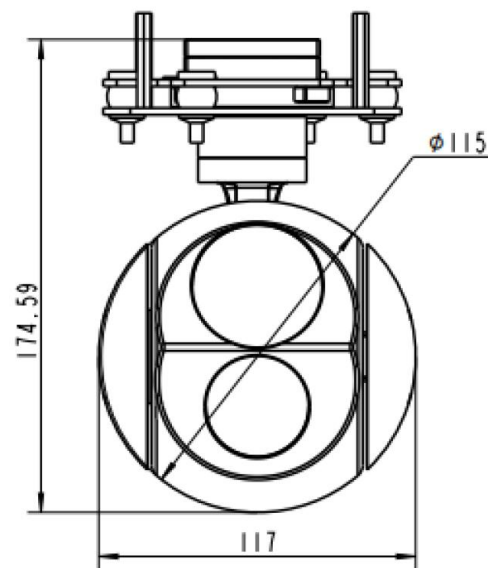


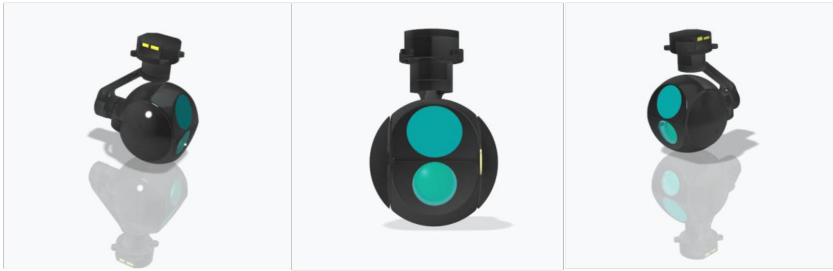
### Function Future

- 90x mixed zoom<sup>①</sup> camera
- 25mm focal length 1280×1024 thermal
- AI tracking
- 1080p RTSP stream output
- Ethernet and serial port control
- Photo and video record, TF card storage
- 3-Axis stabilizing gimbal
- SBUS/UART/UDP/PWM control

### Device Structure



NOTE<sup>①</sup>:90x mixed zoom:10x optical zoom+9x digital zoom

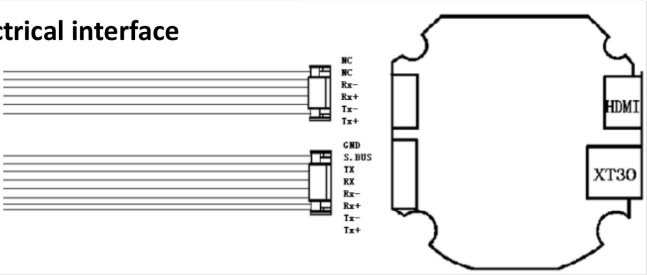
|                                                                                    |                                 |                                                                                                  |
|------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------|
|  |                                 |                                                                                                  |
| Voltage                                                                            |                                 | DC12~26.2V③                                                                                      |
| Power Supply                                                                       |                                 | Dynamic 6W                                                                                       |
| Gimbal                                                                             | Pitch Angle                     | -20~+110°                                                                                        |
|                                                                                    | Yaw Angle                       | 600° rotation                                                                                    |
|                                                                                    | Pitch and Roll Jitter Angle     | ±0.02°                                                                                           |
|                                                                                    | Horizontal Jitter Angle         | ±0.03°                                                                                           |
|                                                                                    | Gimbal mode                     | one click centering, lock/follow mode                                                            |
|                                                                                    | Control Modes                   | Speed adaptive and controllable, external control via network or serial port                     |
| Zoom EO                                                                            | CMOS SENSOR                     | 1/2.8 INCH 2 mega pixel wide dynamic CMOS SENSOR                                                 |
|                                                                                    | Optical Zoom                    | 10x 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 1080P stream, local TF 1080P storage                                         |
|                                                                                    | Field Angle (FOV)               | D : WIDE 69.5°±5% TELE 7.95°±5%<br>H : WIDE 61.5°±5% TELE 7°±5%<br>V : WIDE 35°±5% TELE 3.97°±5% |
|                                                                                    | Support Mode                    | 1080P 30fps                                                                                      |
| Thermal Imaging                                                                    | Resolution                      | 1280*1024 pixel                                                                                  |
|                                                                                    | Pixel spacing                   | 12μm                                                                                             |
|                                                                                    | Type                            | Uncooled vanadium oxide                                                                          |
|                                                                                    | Wavelength range                | 8~12μm                                                                                           |
|                                                                                    | Thermal sensitivity (NETD)      | ≤50mk@F1.0                                                                                       |
|                                                                                    | 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                                                    | Mini tracking target size:      | 16×16 pixel                                                                                      |
|                                                                                    | Maxi tracking target size:      | 256×256pixel                                                                                     |
|                                                                                    | Maxi occlusion time:            | 2s                                                                                               |
|                                                                                    | Maxi speed supported:           | 50pixel/frame                                                                                    |
|                                                                                    | Maxi number of recognition:     | 100                                                                                              |
|                                                                                    | Recognized categories:          | Human and vehicle                                                                                |
|                                                                                    | Mini recognized size:           | 16×16 pixel                                                                                      |

|                       |                              |
|-----------------------|------------------------------|
| Dimension             | 117mm * 145mm*175mm          |
| Operating Environment | -10℃ to +55℃ / 20% to 80% RH |
| Storage Conditions    | -20℃ to +60℃ / 20% to 95% RH |
| Main application      | Drone Photography            |
| Weight                | 770±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   | 8PIN | communication interface | GND                  | GND                   |
| 2   |      | communication interface | SBUS                 | SBUS input            |
| 3   |      | communication interface | TX                   | Serial port sending   |
| 4   |      | communication interface | RX                   | 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     |

| No. | Name | 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  |

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