

# QZ185T

## Two Axis Four Framework Electro-Optical Pod



### Applications

- Public Security
- Fire Fighting
- Electrical Inspection
- Photovoltaic Inspection
- Forest Fire Prevention
- Search&Rescue

Technical info:

KG	≤3.5Kg
∅	185mm

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## Two Axis Four Framework Electro-Optical Pod

### Features

- ★ With day and night reconnaissance imaging function;
- ★ With laser ranging function;
- ★ With the function of high-precision stabilization of line of sight and image;
- ★ With the function of scan, search, target tracking;
- ★ With the function of zenith stable tracking;
- ★ With the function of target location;
- ★ With the function of image information superposition;
- ★ With the function of system self-check;



 Display

 Unit

 Flight Computer

 Downlink

 Mission Computer

### SYSTEM CHARACTERISTICS

**Stabilization Precision:**  $\leq 30 \mu \text{ rad}$  (RMS)  
**Search Range:** Orientation:  $n \times 360^\circ$  ;  
 Pitch:  $+20^\circ \sim -110^\circ$  (Line of sight level is  $0^\circ$  )  
**Angular Accuracy:** 2mrad  
**Max Search Angular Velocity:**  $\geq 60^\circ / \text{s}$   
**Max Search Angular Acceleration:**  $\geq 90^\circ / \text{s}^2$   
**Total Weight:** 3.5kg

### Visible Light TV

**Optical Zoom Focal Length:** 4.3mm ~ 129mm  
**Optical Zoom Lens:** 30X  
**FOV Range:**  $63.7^\circ \sim 2.3^\circ$   
**Resolution:** 1920 × 1080 pixel  
**Operating Range:** Visibility  $\geq 10 \text{ Km}$ , under the condition of Relative Humidity  $\leq 60\%$ , the detection and recognition distance of 4m × 6m vehicles is more than 5km.

### Thermal Infrared Imager

**Detector:** Long wave uncooled 640 × 512 staring focal plane array;  
**Working Waveband:**  $8 \mu \text{ m} \sim 12 \mu \text{ m}$ ;  
**Pixel Size:**  $12 \mu \text{ m}$ ;  
**Focal Length:** Fixed Focus 55mm;  
**F#:** F1.0;  
**FOV:**  $8.0 \times 6.4^\circ$  ;  
**Operating Distance:** visibility  $\geq 10 \text{ Km}$ , relative humidity  $\leq 60\%$ , background temperature difference  $\geq 3 \text{ K}$ , identification distance of 4m × 6m vehicles is greater than 2.8km.

### Laser Rangefinder

**Working Wavelength:** 1535nm (Eye-Safe)  
**Ranging Distance:**  $\geq 6 \text{ km}$   
**Ranging Accuracy:**  $\pm 2 \text{ m}$   
**Repetition Frequency:** 1 ~ 10Hz

### Interface

**Power Supply Interface:** 24VDC power supply, average power consumption  $\leq 50 \text{ W}$ , peak power consumption  $\leq 120 \text{ W}$   
**Image and Control Signal Transmission Interface:**  
 SDI video output, RS422 communication interface

QZZQ reserves the right to change specifications without prior notice.