

QZ180

Electro-Optical Pod



QZ180 Electro-Optical Pod equip with 1080p、30x optical zoom high-performance camera, uncooled infrared thermal imager and laser rangefinder. It has the characteristics of small size, light weight and gyro stability. It can be loaded with oil-electric hybrid UAV platform to realize monitoring and shooting, low-altitude target search and tracking, target positioning and other functions.



Applications

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

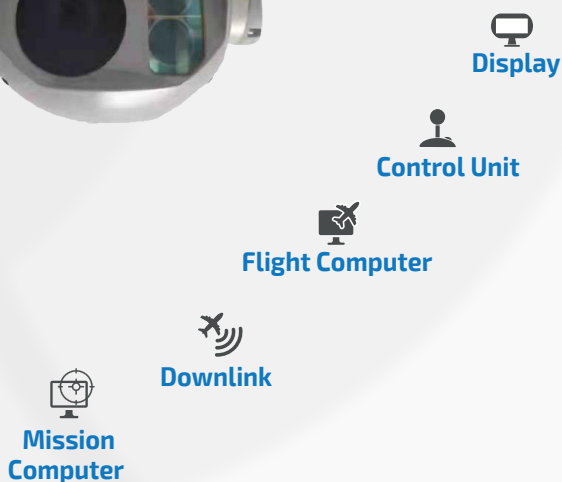
Technical info:

KG	≤3.5Kg
∅	180mm

Electro-Optical Pod

Features

- ★ With a wide range of TV, infrared imaging function;
- ★ With manual、 automatic scanning search function;
- ★ High precision laser ranging;
- ★ With tracking function for personnel, vehicles and other targets;
- ★ Can obtain the geographic coordinates of the selected target in real time by solving the image and flight control data.



System Description

Weight: $\leq 3.5\text{Kg}$
Volume: $\phi 180 \times 300\text{mm}$
Orientation: 360° continuous
Pitching: $+10^\circ \sim -110^\circ$ (0 means move ahead horizontally, "plus" means "up" and "minus" means "down")
Stabilization Precision: $\leq 0.2\text{mrad}$

Visible Light Configuration

Video Resolution: 1920×1080 , 30x optical zoom,
F=4.3mm-129mm,
FOV: $2.3^\circ \sim 63.7^\circ$ (H)
Detecting Distance: Discover Target: 6km,
Recognized Target: 4km (Visibility within 20km, target for small tanks、 cars)

Infrared Configuration

Video Resolution: 640×512 , Focal length: 50mm,
Lenses of other models can be selected, FOV: $15.5^\circ \times 11.6^\circ$
Detecting Distance: Discover Target: 1km,
Recognized Target: 0.5km (target is small tanks)

Laser Rangefinder

Working Waveband: 1550nm;
Range Accuracy: $\pm 5\text{m}$;
Measuring range: 15~5000m;
Ranging Frequency: 2Hz

POWER SUPPLY

Supply Voltage: 24VDC, Peak current is not greater than 1.5A

External Interface

Video Interface: SDI Video
Communication Interface: RS232、 RS422

ENVIRONMENTAL CONDITIONS

Operating temperature: $-20^\circ\text{C} \sim +50^\circ\text{C}$
Storage temperature: $-40^\circ\text{C} \sim +65^\circ\text{C}$

QZZQ reserves the right to change specifications without prior notice.