

EO188

Two-axis Gimbal System

EO188 photoelectric platform is developed for the photoelectric load of domestic small helicopters or large rotorcraft UAV. It mainly investigates and monitors aircraft, vehicles or pedestrians. Through visible light imaging and infrared imaging, it can conduct long-range, large-scale and long-term reconnaissance surveillance of important targets in key areas. The main application are disaster assessment & warning, environmental monitoring, power inspection, terrorism prevention, customs and other tasks.

Features

High precise two-axis gyro-stabilization platform, avoid various vibration of moving carrier. Eliminate image blur and shake.

640×512 high resolution thermal imager, have excellent night vision

30X continuous zoom, 1920 ×1080 high clear visible light camera

4 km LRF, ranging accuracy ± 3 m

Auto/manual tracking

Load customization and reloading

Applications

Environmental monitoring

Power inspection

Terrorism prevention

Customs anti-smuggling



Technical Specifications

Item	EO188
Platform Performance	
Gimbal size	188mm(W) × 350mm(H)
Weight	5kg
Angle range(Course)	360° x n
Angle range(Pitch)	+20° ~ -100°
Angular velocity	≥60°/s
Stabilized precision	100μrad (RMS)
Tracking accuracy	1mrad (condition 2°, RMS 1Hz disturbance)
Image Performance	
IR resolution	640 X 512
Pixel pitch	17μm
Lens focal distance	25/80mm
Lens FOV	WFOV24.5°X19.5°, NFOV7.5°X6°
Polarity/LUT mode	Black hot/White hot
CCD Camera Performance	
Lens focus distance	4.3mm~129mm
Lens FOV	2.3°~63.7°
Resolution	1920×1080
Zoom	30X optical zoom
Focus	Auto
Laser ranging	
Laser wavelength	1550nm
Ranging distance	≥4Km
Ranging accuracy	±3m
Interface	
Video output	HD-SDI
Control	RS422
Power System	
Working voltage	DC: 24V
Power consumption	45W Average, 100W Peak
Environment Parameters	
Operating	-30°C~ + 55°C
Storage temperature	-40°C~ + 60°C
Humidity	95 ± 3%
Packing	
Standard	Task equipment, Equipment box, Connecting cables and connectors, Random devices and files