

EO145

Two-axis Gimbal System

EO145 gimbal system is a professional dual camera system designed for aerial surveillance, facility inspection, search&rescue and other tasks. System is specially designed for aerial operation for UAV.

Features

Small volume, light weight, 145mm diameter, 2kg weight

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

640×480 high resolution thermal imager, have excellent night vision

30X continuous focus, 1920 ×1080 high clear visible light camera, high imaging quality, high definition scene can be shown

Auto/manual tracking

Applications

Aerial application

Power inspection

Defense application

Searching and secure



Technical Specifications

Item	EO145
Platform Performance	
Gimbal size	145mm(W) × 230mm(H)
Weight	2kg
Angle range(Course)	300° (360°Panoramic)
Angle range(Pitch)	-100°~+100°
Angular velocity	≥60°/s
Stabilized precision	≤0.5mrad(RMS)
Tracking accuracy	±2 pixel
Image Performance	
IR resolution	640×480
Pixel pitch	17μm
Lens FOV	12.4°×9.5°
Lens focal distance	50mm
Amplification	2X、4X
Frequency	30Hz
Polarity/LUT mode	Black hot/White hot/Pseudo-color
CCD Camera Performance	
Lens FOV	2.3° ~ 63.7°
Lens focus distance	4.3mm~129mm
Resolution	1920×1080
Zoom	30X optical zoom, 12X digital zoom
Focus	Auto
Interface	
Video output	HD-SDI
Control	RS422
Power System	
Working voltage	DC: 12V±20%
Power consumption	≤25W(average, max≤50W)
Environment Parameters	
Operating	-35°C~ + 55°C
Storage temperature	-40°C~ + 65°C
Humidity	5% ~ 95%(non-condensing)
Packing	
Standard	Thermal imaging nacelle, Software package, Warranty card, Connectors