

V9 Gyro-Stabilized

Stabilized Airborne Camera Systems



The Axsys Technologies V9 offers high performance and reliability for aggressive applications, while providing operators with the necessary functionality to accomplish the mission with exceptional ease of use. Equipped with innovative EO and IR sensor technology, the system features a large format infrared sensor and true high definition daylight sensors to capture high intensity, crisp target signatures and preserve the image fidelity in all lighting and weather scenarios. Furthermore, the infrared sensor is combined with continuous zoom lens technology to enable persistent tracking of the subject at any given Field of View. The V9 utilizes two HD 1920 x 1080 CMOS cameras to expand wide area coverage and to maintain the long-range identification performance of the daylight channel. The multiple payloads are contained in complementing inner and outer gimbal assemblies to provide the finest available stabilization technology in this class of camera system. The advantages derived from the 4-axis ring structure, fully protect the payload from the external environment and maximize the effectiveness of the optical devices contained within by eliminating any image distortion caused by random oscillation. The integration of laser pointing, searchlight controls and geo-pointing functions increases the systems capability creating an efficient, economical and powerful solution, perfect for Airborne Law Enforcement (ALE) and surveillance missions.

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FEATURES

- 4-axis gyro-stabilization
- Image Quality
- HD daylight CMOS sensor
- Mid-wave cooled thermal sensor
- Laser pointer
- Moving Map Interface
- Fully integrated Search Light control system with slaving capabilities
- High Definition Overlay
- Digital Video Processing
- Remote diagnostic testing
- Compact size and weight

BENEFITS

- High definition (1920 x 1080) Daylight sensor
- Large format infrared detector (640 x 512)
- Dual ring structure permits rough and fine correction in the azimuth and elevation axis stabilization
- Continuous optical zoom offering the longest range performance in its class

OPTIONS

- Video Auto Tracking
- IMU/GPS
- Geo-Pointing

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Thermal Imager

Sensor Type	640 x 512 HgCdTe FPA
Wavelength	3- 5 μ m
Field of View Type	Continuous
Focal Length	25-300mm
Field of View	21.7° to 1.8° (Horizontal)
Digital Zoom	2x
Effective Focal Length	600mm
Zoom Ratio	12x optical, 24x overall

Daylight Imager

Sensor Type	1/3" CMOS
Field of View Type	Continuous
Focal Length	5.1mm to 153mm
Optical Field of View	50.4° to 1.8° (Horizontal)
Digital Zoom	4x
Effective Focal Length	612mm
Zoom Ratio	30x optical, 120x overall

Laser Pointer

Laser Class	Class IIIb
Wavelength	830 nm
Output Power	30mW

System Specifications

System Type	4-axis gyro-stabilized multi-sensor
Azimuth Coverage	360° Continuous
Elevation Coverage	+28° to -194°
Slew Rate	0° - 140°/sec

Dimensions

Turret size	12.1" x 10.25"
Turret Weight	27.5 lbs.
Auxiliary Unit Dimensions	9.5" x 14" x 7.5" (H x D x L)
Auxiliary Unit Weight	16.5 lbs.
Control Unit Weight	1.5 lbs
System Weight	51 lbs (w/standard cables)

Power

Input Voltage	28 VDC +/- 10%
Continuous	132W/5A
Maximum	450W/16A

System Interfaces

Digital Video	HD-SDI, HDMI
Analog Video	NTSC/PAL
Control	RS232, RS422
Data	RS232, RS422



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