

# SENSPEX

APPLIED SCIENCE & TECHNOLOGY

## V9 MS Camera System

Stabilized Airborne Camera Systems



The V9 Multi-Sensor is an efficient, economical and powerful dual sensor camera solution, perfect for Airborne Law Enforcement (ALE) and surveillance missions.

Complementing the larger V14 HD and V14 Multi-Sensor product family, the new V9 MS is a mid-size, lightweight and fully digital, 4-axis gyro-stabilized imaging system. Equipped with cutting edge EO and IR sensor technology, it is the only system in its class to offer 4-axis stabilization critical in reducing fatigue and increasing performance. The laser pointer and fully integrated Search Light slaving capabilities are contained in a durable, aircraft-grade aluminum body, providing maximum functionality and reliability in a compact, user-friendly stabilized imaging system.

[www.senspex.com](http://www.senspex.com)

### 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 480)
- 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

### OPTIONAL FEATURES

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

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## Thermal Imager

Sensor Type	640 x 512 HgCdTe FPA
Wavelength	3 – 5 $\mu\text{m}$
Pitch	15 $\mu\text{m}$
Field of View Type	Continuous
Focal Length	25-300mm
Field of View (Horizontal)	21.7° to 1.8°
Digital Zoom	2x
Effective Focal Length	600mm
Zoom Ration	12x optical, 24x overall

## Daylight Imager

Sensor Type	1/3" CMOS
Pitch	2.5 $\mu\text{m}$
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 Ration	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° - 104°/sec

## Dimensions

Turret Size	12.1" x 10.25"
Turret Weight	27.5 lbs.
Auxiliary Unit Dimensions	9.5" x 14" x 7.5"
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	450W16A

## System Interfaces

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

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