

V14 MSII

Gyro-Stabilized Airborne Camera Systems



The Axsys V14 MSII is a fully digital, lightweight multi-sensor imaging system designed to provide exceptional surveillance and detection capabilities for Airborne Law Enforcement (ALE) and persistent surveillance missions. The systems electro-optical/infrared (EO/IR) sensors and high-definition (HD) visible camera are integrated in a 4-axis gyro-stabilized gimbal assembly to provide unparalleled image stability at long-range.

The MSII incorporates a proprietary high-performance computer, HD video processor and power conditioning unit. With a touch-screen interaction, this unit allows simplified user input, control and monitoring of all system features. With the systems continuous zoom capabilities and unmatched stabilization, the V14 MSII delivers precision imagery in long-range remote monitoring missions.

Axsys designs and manufactures a full portfolio of high-performance electro-optical infrared (EO/IR) camera systems. Axsys Technologies is a division of General Dynamics Advanced Information Systems, a provider of end-to-end solutions across the imagery value chain providing timely, relevant and actionable intelligence.

www.axsys.com

FEATURES

- Complete Console System Control
- Video Switching
- Power Conditioning
- Scan Conversion

OPTIONS

- Inertial Navigation System
- Geo-Pointing
- Image Blending
- Video Auto Tracker
- Microwave Control
- Moving Map Interface

V14 MSII

Thermal Imager

Sensor Type	640 x 512 InSb FPA
Resolution	NTSC/PAL
Wavelength	3-5 μ m
Field of View Type	3FOV
Focal Length	17/60/200mm
Optical Field of View	31.5°/9.10°/2.75°
Digital Zoom	5x
Effective Focal Length	1000mm
Zoom Ratio	12x optical, 60x overall

HD Daylight Imager

Sensor Type	2/3" 3-CCD
Resolution	1080p, 1080i, 720p, NTSC/PAL
Field of View Type	Continuous
Focal Length	16.5mm to 825mm
Optical Field of View	32.4° to 0.67°
Digital Zoom	5x
Effective Focal Length	4125mm
Zoom Ratio	50x optical, 250x overall

Laser Rangefinder

Laser Type	Erbium-glass
Wavelength	1.54 μ m
Pulse Rate	12 PPM
Range	20 km
Range Resolution	+/- 5m

System Specifications

System Type	4-axis gyro-stabilized multi-sensor system 5-axis gyro-stabilized electro-optical system
Azimuth Coverage	360° Continuous
Elevation Coverage	32° to -155°
Roll Coverage	+/- 18° (EO sensor only)
Slew Rate	0-55°/sec

Dimensions

Turret size	19.8" x 14.9" x 19" (H x D x L)
Turret Weight	73 lbs.
Auxiliary Unit(s) Dimensions	LRU 1: 18" x 19" x 6" (H x D x L) LRU 2: 6.5" x 17" x 9.5" (H x D x L)
Auxiliary Unit(s) Weights	LRU 1: 34 lbs LRU 2: 16.5 lbs
Control Unit Weight	6 lbs
System Weight	144 lbs. (w/standard cables)

Power

Input Voltage	28Vdc +/- 10%
Continuous	560W / 20A
Maximum	1300W / 47A

System Interfaces

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