

# V14 MSII Gyro-Stabilizer

Stabilized Airborne Camera Systems

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



The Axsys Technologies V14 MSII is a fully digital, lightweight multi-sensor imaging device designed to provide exceptional surveillance and detection capabilities for law enforcement, military and public utilities applications.

The MSII combines the latest in IR and high-definition EO sensor technology and incorporates a proprietary high-performance computer, HD video processor and power conditioning unit, the HDU-900. This unit works seamlessly with the MSII's touch-screen console, allowing simplified user input, control and monitoring of all system features. This powerful combination allows the system to support a multitude of features and provide numerous payload and interface options. With the systems unparalleled EO and IR sensor technology, superior lens stabilization and unmatched continuous zoom capabilities, the V14 MSII delivers high-performance, flawlessly precise images making it ideal for any mission, day or night.

## FEATURES

- Complete Console System Control
- HD-Overlay
- Video Switching
- Power conditioning
- Scan conversion (1080 to 720) NTSC & PAL

## OPTIONAL FEATURES

- INS – Inertial Navigation System
- Geo-Pointing
- HD DVR (continuous loop recording)
- Frame Grab with cabin accessible USB drive
- Image Blending (HD Daylight and IR)
- Video Auto Tracker
- Microwave Control
- Remote Control

**Aerial**  
**Filmworks** CINEFLEX HD CAMERA SYSTEM & SERVICES

Aerial Filmworks is an authorized reseller of Axsys Technologies products.

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# V14 MSII Gyro-Stabilizer

## Thermal Imager

Sensor Type	640 x 512 InSb FPA
Resolution	NTSC/PAL
Wavelength	3-5 $\mu$ m
Pitch	15 $\mu$ m
Filed of View Type	3FOV
Focal Length	17/60/200mm
Optical Field of View	31.5°/9.10°/2.70° (Horizontal)
Digital Zoom	2x
Effective Focal Length	400mm
Zoom Ratio	12x optical, 24x overall

## HD Daylight Imager

Camera	Sony HDC-1500
Sensor Type	2/3" 3-CCD
Resolution	1080p, 1080i, 720p, NTSC/PAL
Pitch	5 $\mu$ m
Field of View Type	Continuous
Focal Length	16.5mm to 825mm
Optical Field of View	32.4° to 0.67° (Horizontal)
Digital Zoom	2x
Effective Focal Length	1650mm
Zoom Ratio	50x optical, 100x overall

## Laser Rangefinder

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

## System Specifications

System Type	5-axis gyro-stabilized multi-sensor
Azimuth Coverage	360° Continuous
Elevation Coverage	36° to -155°
Roll Coverage	+/- 20° (HD sensor only)
Slew Rate	0-55°/sec

## Dimensions

Turret size	19.5" x 14.9" x 19"
Auxiliary Unit Dimensions	14" x 19.5" x 6"

## Weight

Turret Weight	72 lbs.
Auxiliary Unit Weight	29.5 lbs.
Control Unit Weight	5 lbs.
System Weight	116 lbs. (w/standard cables)

## Power

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

## System Interfaces

Digital Video	HD-SDI (EO Only)
Analog Video	NTSC/PAL
Control	RS232, RS422
Data	RS232, RS422

## Additional System Options

Moving Map Interface
Searchlight Interface



Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice. Export is subject to US Government regulations.



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