

# 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

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## 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 |



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