



The Axsys V14 MSII is a fully-digital, lightweight multi-sensor stabilized camera that delivers exceptional surveillance and detection capabilities for aerial law enforcement, military, public utilities, and other commercial airborne applications.

The V14 MSII combines the latest in IR and high-definition EO sensor technology. The V14 MSII incorporates a proprietary high-performance computer, HD video processor and power conditioning unit, the HDU-900. This unit works seamlessly with the V14 MSII touch-screen console controller, allowing simplified user input, control and monitoring of all system features. The V14 MSII delivers unparalleled EO and IR sensor technology, superior lens stabilization, unmatched continuous zoom capabilities and multiple payload options, making it ideal for a wide range of airborne surveillance and reconnaissance missions, day or night.

## V14 MSII

### Gyro-Stabilized HD Multi-Sensor

#### Standard Features

- 5-axis gyro-stabilization for unmatched image stability
- Complete console system control reduces cost and simplifies installation
- HD-overlay of status information directly on HD monitor for improved situational awareness
- Video switching of multiple sources – HD-SDI/ SDI/ and analog video
- Power Conditioning for improved system reliability
- HD/SD conversion
- Scan conversion (1080 to 720) ensuring compatibility with wide range of HD video standards
- 10x digital zoom for HD or IR image

#### Optional Features

- Geo-pointing for automated gimbal steering to fixed location
- Up to 10 hours of continuous DVR recording
- Frame grab capture (single frame, scene selection, or video clip) of full resolution images with meta-data on image location and system settings
- Image blending of HD and IR images on same monitor



### System Specifications

|                     |                                     |
|---------------------|-------------------------------------|
| System Type         | 5-axis gyro-stabilized multi-sensor |
| Turret Size (HxWxL) | 19.5" x 14.5" x 19"                 |
| Turret Weight       | <80 lbs                             |
| Azimuth Coverage    | 360° Continuous                     |
| Elevation Coverage  | +36° to -188°                       |
| Roll Coverage       | +/- 20° (HD sensor only)            |
| Slew Rate           | >55°/sec                            |

### Thermal Imager

|                           |  |
|---------------------------|--|
| Sensor Type               | 640 x 512 15µm pitch focal plane array |
| Wavelength                | Cooled 3-5 µm InSb                     |
| Output                    | NTSC/PAL                               |
| Fields of View: 3 (FOV's) | 31.5° x 24.0°                          |
|                           | 9.10° x 6.90°                          |
|                           | 2.70° x 2.06°                          |

### HD Daylight Imager

|                  |  |
|------------------|--|
| Camera           | Sony HDC-1500                                      |
| Imaging Device   | 3-CCD 2/3"   |
| Effective Pixels | 1920(H) x 1080(V)                                  |
| Aspect Ratio     | 16:9   |
| Frame Rates      | 1080/50i, 60i, 30P, 25P, 24P,<br>720/60P, 50P      |
| Sensitivity      | F10 at 2000 lx (3200k, 89.9% reflectance)          |
| Focal Length     | 16.5mm to 825mm                                    |
| Magnification    | 50x optical (up to 600x with digital)              |
| Field of View    | 32.40° x 18.60° (16.5mm) to<br>0.7° x 0.4° (825mm) |

### Laser Rangefinder Option

|                  |                        |
|------------------|------------------------|
| Laser Type       | Erbium-glass           |
| Wavelength       | 1.54 microns           |
| Pulse Rate       | 12 PPM (1-Hz optional) |
| Range Resolution | +/- 5 m                |
| Min/Max Range    | 50 meters / 20 Km      |

### Power

|               |                |
|---------------|----------------|
| Input Voltage | 28 Vdc +/- 10% |
|---------------|----------------|

### Additional System Options

|                       |                         |
|-----------------------|-------------------------|
| Video Auto Tracker    | Software auto-tracker   |
| (Both IR and HD)      | Integrated into HDU-900 |
| Integrated Moving Map | Moving map software     |
|                       | integrated into HDU-900 |



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