

## APPLICATIONS

- Perimeter Security
- Coastal Surveillance
- Border Patrol
- Government Facilities Security
- Force Protection
- Training Range
- Customs Inspection
- Vessel Traffic Monitoring System

## 24-HOUR PERIMETER SURVEILLANCE CAMERA SYSTEM

Reliable, continuous day/night surveillance is assured with ThermoVision Sentry, a mobile or fixed-installation thermal camera that sets new standards in compactness, ruggedness, and low power consumption. Incorporating FLIR's next-generation uncooled detector technology, ThermoVision Sentry takes perimeter/border surveillance and force protection to the next level.

### COMMERCIALLY DEVELOPED, MILITARY QUALIFIED

Developed under the U.S. Air Force TASS (Tactical Automated Security System) program, ThermoVision Sentry has earned its stripes in punishing installations the world over. Military-qualified COTS/NDI, the system is highly ruggedized, and sealed against rain, sand, dust, and corrosion.

### REDEFINES SYSTEM PERFORMANCE

ThermoVision Sentry delivers superior reliability, lower power consumption, lower life cycle costs, faster start-up, and greater affordability. But these are only a few of the advantages ThermoVision's 320 x 240 uncooled microbolometer focal plane array provide over conventional cryogenically cooled infrared cameras.

### FLEXIBLE DEPLOYMENT OPTIONS

A single operator can transport, fully assemble, and operate ThermoVision Sentry in the field, or the unit can be permanently installed in a fixed location.

### POWERFUL ON-BOARD PROCESSING

Dual fields of view provide both situational awareness and close-up imaging on demand. Electronic zoom, freeze frame, and automatic gain/level control enhance target recognition capability. An integrated pan-and-tilt drive provides fast, continuous 360 degree slewing. Autoscan sequentially scans between multiple preset positions at user-definable scan rates and dwell times for hands-free monitoring. Histogram equalization ensures optimal image quality and selectable color palettes enhance target discrimination.

### PAYLOAD READY

Optional payloads include a color CCD-TV monitor camera and a networking capability.

### STOWED POSITION PROTECTS OPTICS

The system features a stowed position capability that protects optics, while still allowing for rapid start-up.



## SYSTEM SPECIFICATIONS

Video Format	NTSC (RS-170) or PAL (CCIR)
Serial Interface	RS-485
Power	18-32 V DC
Power Consumption	35 W (average)
Built-In-Test (BIT)	Self-diagnostics
Weight	38 lbs.
Dimensions	15 x 11 x 9 in.
Operating Temperature Range	-25.6°F to 122°F (-32°C to +50°C)

## THERMAL IMAGER

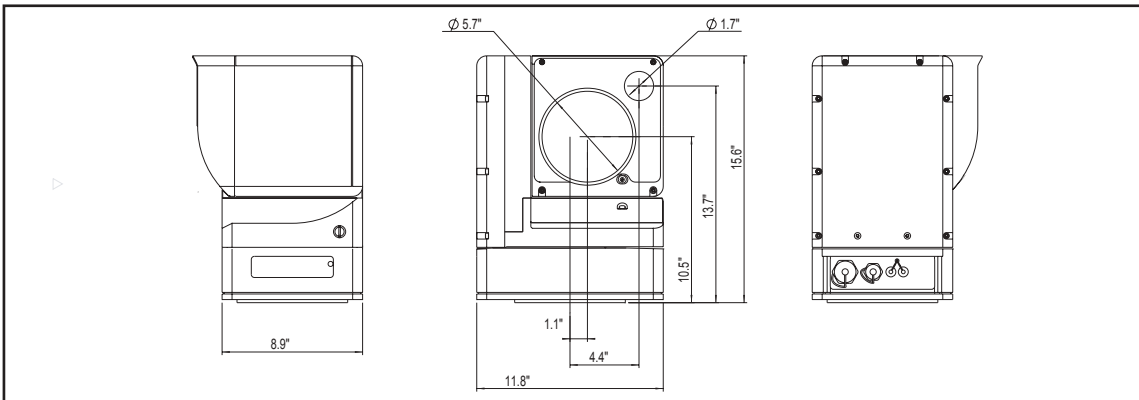
Detector	Uncooled microbolometer, 320 x 240
Waveband	7.5-13 microns
Wide FOV	24° x 18°
Narrow FOV	6° x 4.5°
FOV Switch Time	<.8 seconds
Electronic Zoom	Continuous 1X to 4X
Digital Image Resolution	14 bit
Gain/Level Adjustment	Auto or manual
Image Processing	Histogram equalization
Palettes	Black/white, rainbow, iron

## PAN/TILT SPECIFICATIONS

Azimuth Control	Continuous 360°
Elevation Control	-35° to +60°(higher elevations available)
Slew Rate	0°-120°/second azimuth 0°-60°/second elevation
Pointing Accuracy	±3.0 mrad with ±0.1 mrad repeatability
Autoscan	Multiple positions, fully programmable
Park Position	Lockable position protects optics

## VISUAL CAMERA

Type	1/4" color CCD
Resolution	460 television lines NTSC, 470 television lines PAL
Wide FOV	48°
Narrow FOV	2.7°



Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.

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