

SENTRY® II

MULTI-SENSOR THERMAL IMAGING SYSTEM
WITH PROGRAMMABLE PAN/TILT



APPLICATIONS

FORWARD AREA LINE OF DEFENSE
FORCE PROTECTION
BORDER SECURITY
COASTAL SURVEILLANCE
TRAINING RANGES

FEATURES

High-sensitivity long wave thermal sensor
5/20 degree dual field of view optics
Auto focus on both sensors
Daylight camera
Advanced image processing
Portable
Built in test (BIT)
Autoscan multiple programmable presets and slew-to-cue other network sensors
Rugged, sealed, continuous 360° pan/tilt enclosure with optional heaters and protective stow position
It's all FLIR inside

BENEFITS

Clear imagery in total darkness, through smoke, fog, and most obscurants
Detect man size targets at 3 km
Sharp imagery between zoom settings reduces operator workload
Powerful, sensitive camera offers excellent zoom and color quality
Sharp thermal imagery regardless of scene dynamics
Configured to be a field transportable system for fast deployment
Intelligent self test confirms that the system is operating optimally
Autonomous operation with slaving to other longer range sensors; integrates easily into networks utilizing MPEG videos and full remote control
Hundreds of SENTRY systems fielded with USAF in harsh desert and arctic climates
FLIR controls the entire supply chain on the critical technology inside ThermoVision systems ensuring fast service and long term support



Crisp thermal imagery



Powerful daylight/low light camera



SENTRY® II

THERMAL IMAGING PERFORMANCE

Sensor type	320 x 240 long wave VOx microbolometer
Number of fields of view	2
Wide FOV	20° x 15°
Narrow FOV	5° x 3.75°
E-zoom	1x to 4x continuous
Image processing	STACE™ (digital image enhancement), Histogram Equalization (HEQ)
Palletes	Black, white, rainbow, iron (+ inverted)
Spectral band	7.5-13 µm
Automatic features	Focus, image optimization, temperature compensated focus, defrosting system

DAYLIGHT IMAGING PERFORMANCE

Sensor type	0.25 in. CCD
Optical zoom	(18x) 48° to 2.7° continuous
E-zoom	12x, continuous
Lines of resolution	460 television lines NTSC, 470 television lines PAL
Automatic features	Auto focus, advanced image processing enhancements

SYSTEM FEATURES

Programmable search	Program multiple preset scene locations
Remote power control	On/off power save feature
Automatic heater	Separate power supply supports arctic climate use
Built in Test (BIT)	Intelligent self diagnostics tests vital functions
Pelco D® compliance	Supports Pelco D® communication protocol

PAN/TILT SPECIFICATIONS

Az range	n x 360°
El range	-35° to +60°
Slew rate	Pan 0-120°/sec

VIDEO OUTPUTS

Video	NTSC (RS-170) or PAL (CCIR)
Connector types	BNC (2) provides thermal and daylight video simultaneously
Optional MPEG video	Requires optional embedded network feature

POWER

Power requirements	18-32 VDC
Power consumption	35 W (average)

ENVIRONMENTAL

IP rating	IP65
Operating temp	-32°C to 55°C (-26°F to 131°F)

DIMENSIONS, WEIGHTS AND MOUNTING

Dimensions	397 x 300 x 226 mm (16" x 11" x 9")
Weight	21 kg (46.3 lb.)

INTERFACES

Command and Control (all functions)	RS 232 or RS 485
Ethernet (optional)	Command and Control and MPEG videos (2)
Pelco D®	Compliant

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