



SightLogix[®] SightSensor

Long-Range Security Camera (Visible Day/Night)

The SightLogix SightSensor™ is a geo-registered intelligent video surveillance platform for long-range, reliable outdoor detection with near-zero false and nuisance alarm rates. The SightSensor's edge-based processing architecture greatly expands the detection coverage area (3X the distance of any commercial alternative), lowering installation and operating costs to less than half that of comparable solutions. The result is the most comprehensive, reliable and economic perimeter intrusion detection solution available today.

Setting the Standard for Outdoor Surveillance

The SightSensor is built for long-range perimeter security around critical outdoor assets in all weather, lighting and geographical conditions. The sensitive CCD day/night imager, coupled to powerful multiprocessing electronics, is packaged in a dry-nitrogen pressurized enclosure to meet NEMA-4X standards. SightSensors can be deployed in the most isolated areas and in the most urgent situations - from polar arctic regions to the equatorial deserts - with confidence.

Greater Range Drives Greater Cost Savings

Longer-range coverage and increased detection accuracy means fewer cameras are needed. This results in significant cost savings (in excess of 50%) in power and communications infrastructure, and more efficient use of security personnel. As a completely self-contained edge device, the SightSensor also minimizes the typical network communications problems and server infrastructure costs of server-centric solutions.

Automated Security for Perimeters and Buffer Zones

The long-range Visible SightSensor surveillance camera is one element of the SightLogix Enterprise Security System. Options include Thermal SightSensors for long-range, zero-light surveillance; WideView SightSensors for wide-area, close-in surveillance; SightTrackers that automatically steer PTZ cameras for target identification; and SightMonitor software for GPS target location display. SightLogix systems are available in fixed, rapid deployment or mobile deployment configurations.

Eliminate False & Nuisance Alarms

SightLogix' patented "edge" architecture combines high-performance optic cores with the most powerful on-board computing architecture on the market: Five (5) digital signal processors (DSP) tightly integrated with the imaging, optics, geo-spatial tracking, analytic processing policies, and the most advanced image stabilization and filtering algorithms ever developed.

SightLogix' edge-based approach delivers the detection accuracy to mitigate ill effects of real-world interference such as high wind, lighting changes, precipitation, moving clouds, shadows and vibration, detecting targets with unmatched accuracy over large distances and areas (from hundreds to thousands of meters) and reporting targets with their GPS coordinates.

Geo-registered Situational Awareness

SightSensors come pre-integrated with SightMonitor, a real-time geospatial topology view of target locations overlaid on a satellite image of the perimeter. This allows the sensor to track and report on intruder locations, providing both the "what" and "where" of security breaches. The result is a comprehensive, real-time, visual perspective with GPS-registered tracking over an entire secured area of interest.



SightMonitor Coordination Software

Why Visible SightSensor?

- Eliminate false and nuisance alarms and see what would be missed
- Leverage GPS-based tracking for detection accuracy over long areas
- Covers larger areas with fewer cameras, reliably, at half the price
- Economical for deployments of one to 1000's of cameras
- Operates over standard IT networks (wired/wireless/cellular, etc.)
- Extensively configurable video analytics for complete security management
- Accommodate growth or change with a scalable, open platform
- Withstand changing or extreme outdoor conditions
- Seamless integration with leading display/archiving VMS/NVR and C2 systems

Technical Specifications

Imager and Optics Options	
Visible	¼ type CCD; variable field-of-view; 0.7 Lux, (F1.4)
SightMonitor Specifications	
Aerial image format	Geo-rectified aerial images in common image formats e.g. JPEG
Typical sys. requirements	Standard high-end PC running Windows Operating System
Target Detection	
Range	140m–500m. No degradation with camera motion
Tracking	Human and vehicle, continuous tracking
Electronic Stabilization	No false detects even with camera motion
Analytic Modes	
Modes	Multi-Mode Tripwire, Directional Zone Violation, Loitering, From/To
Target Attributes	Height, Width, Speed, Direction, Aspect-Ratio
Activity	Object Left Behind, Missing Object, Wrong Direction
Zone Types	Alarm, Mask, Ignore
Detection Output	
Geo-location	Real-time intruder GPS location displayed over aerial facility map
Intruder size	Real-time intruder size reports
Alarm triggered video	Full frame rate, full resolution video transmission only upon true alarms
Geo-Data	Provide XML Data for Multi-Spectral Confirmation of Targets with Visual Sensors, Radar, etc.

Communications and Interface	
Data connector	10/100 Base TX, 802.11x
Protocols	Supports all leading network protocols including streaming video protocols
Video Frame Rate	Up to 30fps
Compression	MPEG4 & MJPEG (Dual Stream)
Bandwidth	Configurable bandwidth from satellite communications, cellular to full broadband, without degradation in detection reliability
Data Security	
Encryption	AES Encrypted video and control data
Authentication	Basic and Digest Login
Hardware Tampering	Hardware tampering reported as alarm
Electrical	
Power	20 W nominal. Solar and battery capable. 60W heater optional.
Voltage	24 V AC/DC +/- 10%
Camera Enclosure and Dimensions	
Operating range	-30 °C to +60 °C
Enclosure	NEMA 4X and IP66 compliant
Outdoor ready	Nitrogen purged, auto lens defogger
Dimensions	47.3cm L x 16.2cm W x 16.8cm H (18-5/8" x 6-3/8" x 6-5/8")
Weight	6.8kg (15 lbs)
Mounting	Standard 3 hole camera mount – 3 x ¼-20 tpi bolts

All specifications are subject to change without notice.

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