sightlogix
making outdoor video… *smarter*

Visible SightSensor®

Day/Night Video Analytic Camera

SightLogix® Visible SightSensor is a day/night video analytic camera for outdoor perimeter and area security during the day and at night with adequate lighting. The Visible SightSensor leverages powerful on-board video processing for high Probability of Detect and low Nuisance Alarm Rates (NAR) in all weather and geographies. The Visible SightSensor consists of a visible imager, complete with lens optics, electronic stabilization, video analytics software, camera control, and geospatial target tracking within a ruggedized, NEMA 4X nitrogen-purged housing.

Feature	Benefit
Multiple digital signal processors (DSP) integrated with the camera imager	Analyzes every pixel of every video frame for increased accuracy and extended range
Image processing for 3D Image Stabilization (translation, rotation and zoom)	Eliminates video shake induced by wind and machinery (trains, air-planes, construction equipment) to eliminate nuisance alarms
Image processing for dynamic lighting correction	Reveals objects in varying and low-light conditions
Image processing for accurate detection of small objects in a background of environmental movement (leaves, reflections, wind-blown objects)	High probability of detect with low nuisance alerts
Operates in the visible spectrum to detect objects that violate a site's alarm policies. Specifies the GPS position for up to 64 simultaneous targets	Accurate intrusion detection over large outdoor areas
EasyConfig calibration software for stand-alone applications	Enter camera height for easy-to-use, auto calibration process
Optical zoom lens (18x)	Supports various field of view/detection distances
Detects inbound vehicle-sized objects up to 1130 meters (3700 feet) and human-sized targets up to 460 meters (1500 feet); requires no more than sixteen (16) scene pixels for object detection	Accurate intrusion detection over large outdoor areas
Precision video analytics determine object location, size, and velocity accurately with real-time display onto geo-positioned topology map	Accurately filters objects based on size, velocity and location
Real-time target display onto geo-positioned topology map (Enterprise Mode)	Provides situational awareness of targets
10/100 Ethernet with support for satellite, cellular and full broadband communications; AES 256 bit encryption and SSL protocol	Flexible and secure communications
Seamless integration with third-party VMS, PSIM and C2 Systems	Open-system design supports leading industry systems
Dry-nitrogen pressurized enclosure (NEMA-4X); rugged, multi-contact sealed Mil-C electrical connector	Built to withstand outdoor elements (rain, snow, humidity, sand, temperature extremes) for extended life

Ordering Information

Part Number	Interface	Power
DS130-000	Ethernet	24V AC/DC
DS130-300	Ethernet	Power Over Ethernet Plus (PoE+)

Accessories

- **SightMonitor** – GPS-based target display and coordination software. *Refer to the SightLogix SightMonitor® Datasheet.*

- **SightTracker** – GPS-based PTZ controller. Refer to the *SightLogix Sight-Tracker™ Datasheet.*

- **Heavy-duty Mounts and Cables**. Refer to the *SightLogix Accessories Datasheet.*
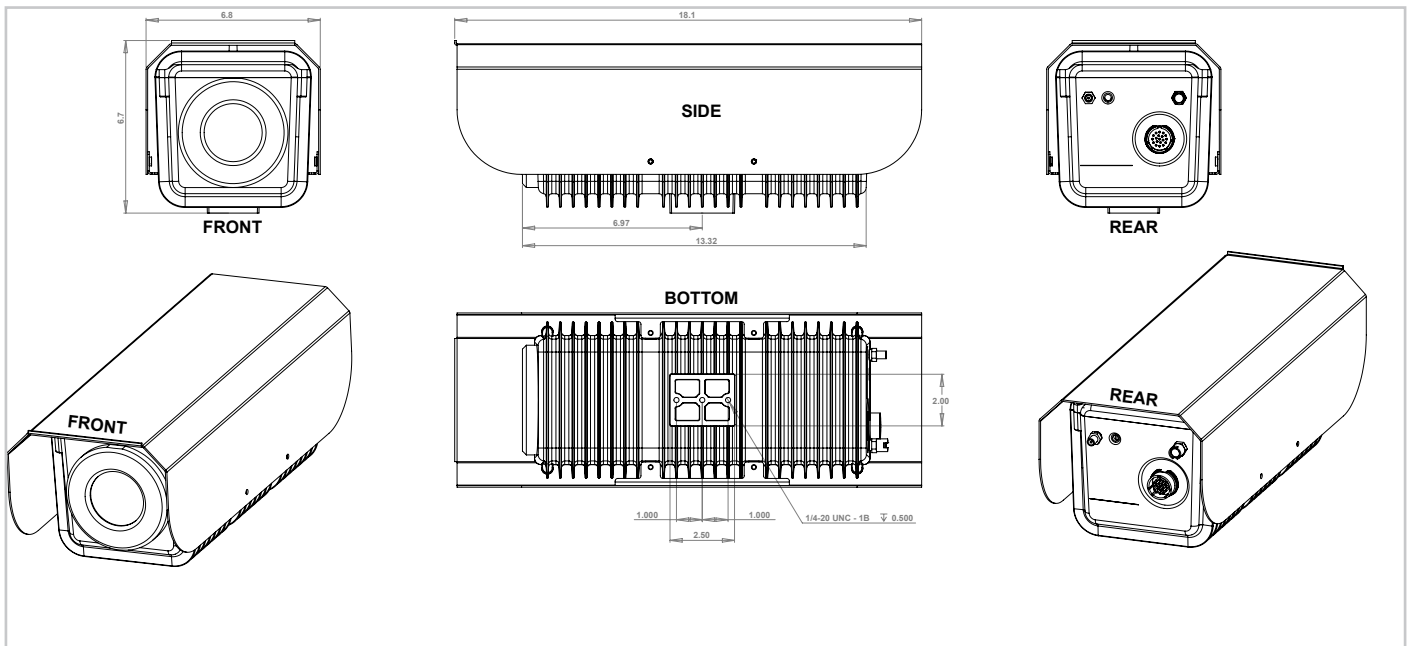
Range and Lighting

Application	FOV	Inbound * Range	Description
Wide angle/short range	48°	130m (390ft)	Day/night use w/illuminator or in well lit areas
Medium angle/med range	22°	303m (900ft)	Day/night use with proper distributed lighting
Narrow angle/long range	14°	460m (1500ft)	Recommended for day use only

*Inbound detection of man-sized object 1.8 m x 0.5 m

Specifications

Imager

Visible	1/4-inch interline transfer CCD
Picture Elements	640 (H) x 480 (V)
Lens	Variable - 2.8° (F/3.0) to 48°(F/1.4)
Minimum illumination sensitivity	0.7 lux (F 1.4)
S/N ratio	> 50 dB

Electrical

Voltage:	24 VAC/DC +/- 10% or PoE+ Mode A
Connector	26 pin Mil-C (power & data)
Power:	16 watts nominal

Network

Ethernet Wired	10/100 RJ45, IEEE 802.3, 802.3i, 802.3u
Data Rate	64 kbps to 8 Mbps

Operating Mode	Full-duplex
Protocols	Supports all leading network protocols including streaming protocols

Video Output

Compression Type:	MPEG-4 (Simple Profile, Advanced Simple Profile) MJPEG
Bit Rate Profile	Constant (CBR) or variable bit rate (VBR)
Resolution	640x240
Frame Rate	Up to 30 frames per second: user configurable

Target Tracking Output

Communications	Metadata via industry standard XML over a HTTP/ HTTPS interface for third-party integration
Tracked object parameters	Current time, alarm state, creation time, GPS position, size, heading, speed, aspect ratio, and alarm zone
SightTracker (optional)	Provides detected targets' GPS coordinates to automatically position PTZ cameras for continual tracking

Camera Enclosure

Weight:	5.45 kg (12 lbs.)
Dimensions:	46 cm L x 17.3 cm W x 16.8 cm H (18.1 L" x 6.8 W" x 6.6 H")
Enclosure:	NEMA 4X (IP66 compliant)
Nitrogen purge pressure	6 psi
Mounting:	3 x ¼-20 UNC bolts

Environmental

Operating Temperature	-30° to +60°C (-22° to +140°F)
Storage Temperature	-30° to +70°C (-22° to 158°F)
Relative Humidity:	0 to 100%
Safety Compliance:	FCC Part 15, Class A CE

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