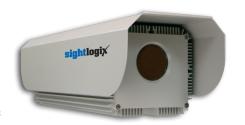# sightlogix
making outdoor video… *smarter*

Visible SightSensor

Long-Range Day/Night Video Analytic Camera

SightLogix® Visible SightSensor® is an intelligent day/night visible detection camera for large outdoor perimeter and buffer zone security. The Visible SightSensor leverages multiple digital signal processors for high Probability of Detect (PD) and low Nuisance Alarm Rates (NAR) in all weather and geographic conditions. 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 all detail 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, airplanes, 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
Optical zoom lens (18x)	Supports various field of view/detection distances
Detects inbound vehicle-sized objects up to 1,230 meters (4034 feet) and human-sized targets at distances up to 500 meters (1640 feet); requires no more than sixteen (16) scene pixels for object detection	Accurate intrusion detection over large outdoor areas
GPS-based analytics determine object location, size, and velocity with real-time display onto geo-positioned topology map	Accurately filters objects based on size and velocity; provides situational awareness
10/100 Ethernet with support for satellite, cellular, wireless (802.11a), and full broadband communications; AES 256 bit encryption and SSL protocol	Flexible and secure communications
Seamless integration with third-party Video Management, Physical Security Information Management (PSIM) and Access Control Systems.	Open-system design supports leading industry systems. Refer to *SightLogix Third Party Compatibility List* for details.
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

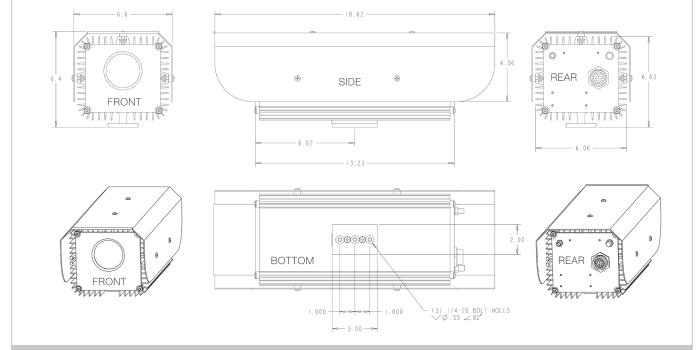| Part Number	Interface	Power
SL-SS-DS100-000	Ethernet	24V AC/DC
SL-SS-DS100-300	Ethernet	Power Over Ethernet Plus (PoE+)
SL-SS-DS100-015	5.8 GHz Wireless	24V AC/DC

Accessories

- **SightMonitor** – GPS-based target display and coordination software. Refer to the *SightLogix SightMonitor® Datasheet*.
- **SightTracker** – GPS-based PTZ controller. Refer to the *SightLogix SightTracker™ Datasheet*.
- **Heavy-duty Mounts and Cables**. Refer to the *SightLogix Accessories Datasheet*

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	.7 lux (F 1.4)
S/N ratio	> 50 dB

Electrical

Voltage:	24 VAC/DC +/- 10% or PoE+
Connector	26 pin Mil-C (power & data)
Power:	18 watts nominal

Network

Ethernet Wired	10/100 RJ45, IEEE 802.3, 802.3i, 802.3u
Ethernet Wireless	IEEE 802.11a (optional)
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:	6.8 kg (15 lbs.)
Dimensions:	47.3 cm L x 16.2 cm W x 16.8 cm H (18.6" x 6.4" x 6.6")
Enclosure:	NEMA 4X (IP66 compliant)
Nitrogen purge pressure	10 psi
Mounting:	3 x ¼-20 tpi 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%
Emissions:	FCC Part 15, Class A ITE Immunity Standard (EN 55024)

Specifications are subject to change without notice.
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