

Outdoor Thermal Video Analytic Camera

SightLogix® Thermal SightSensor® is a video analytic camera specifically designed for outdoor perimeter and area security, day and night, in zero light and in all weather and geographies. Cost-effective for shorter (90m) and larger (600m) ranges, the Thermal SightSensor leverages powerful on-board video processing for high Probability of Detect (PD) and low Nuisance Alarm Rates (NAR) while providing crisp, clear images night and day. The Thermal SightSensor consists of a thermal imager, complete with lens optics, electronic stabilization, image contrast enhancement, 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, range, and outstanding thermal images
Contrast Image Enhancement Technology	See crisp, clear image detail: 24 hours/day, all seasons
Accurately detects inbound vehicle-sized objects up to 1500 meters (4920 feet) and pedestrian-sized objects at distances up to 620 meters (2035 feet); requires no more than sixteen (16) scene pixels for object detection	Lowest cost/foot of any perimeter security alternative
3D Electronic Image Stabilization (translation, rotation and zoom)	Eliminates video shake induced by wind and machinery (trains, airplanes, construction equipment) to eliminate nuisance alarms
Long Wavelength Infrared (LWIR) Uncooled Microbolometer	Detects intrusions in zero light or difficult lighting environments, such as unlit areas near roads and over water in bright sunlight
Detects 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
Precision video analytics determine object location, size, and velocity accurately	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
Detects targets against background of environmental movement (leaves, reflections, wind-blown objects)	Increased accuracy and reduced nuisance alarms
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	Imager Detection Range	Automated Detection Range ★	FOV	Inter-face	Power
NS90-000	205m (670ft)	90m (295ft)	48°	Ethernet	24V AC/DC
NS120-000	310m (1475ft)	120m (390ft)	36°		
NS180-000	450m (1475ft)	180m (590ft)	24°		
NS240-000	590m (1935ft)	240m (785ft)	18°		
NS340-000	800m (2625ft)	340m (1115ft)	13°		
NS480-000	1.1km (3690ft)	480m (1575ft)	9.1°		
NS620-000	1.4km (4590ft)	620m (2035ft) [§]	7°		
Change 000 to 300 to indicate PoE+ (ex: NS90-300)				Ethernet	Power Over Ethernet Plus (PoE+) Mode A

[§]NS620 automated detection range subject to the application environment.

Accessories

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

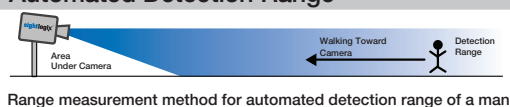


NS620 Range Performance (Man 1.8m x 0.5m)

Imager Detection Range	1.4km
Automated Detection Range	620m
Recognition Range Approx.	400m
Identification Range Approx.	200m

Note: 620m Automated Detection Range is unique to SightLogix' Products. Alternate products typically have one-third SightLogix' Automated Detection Range.

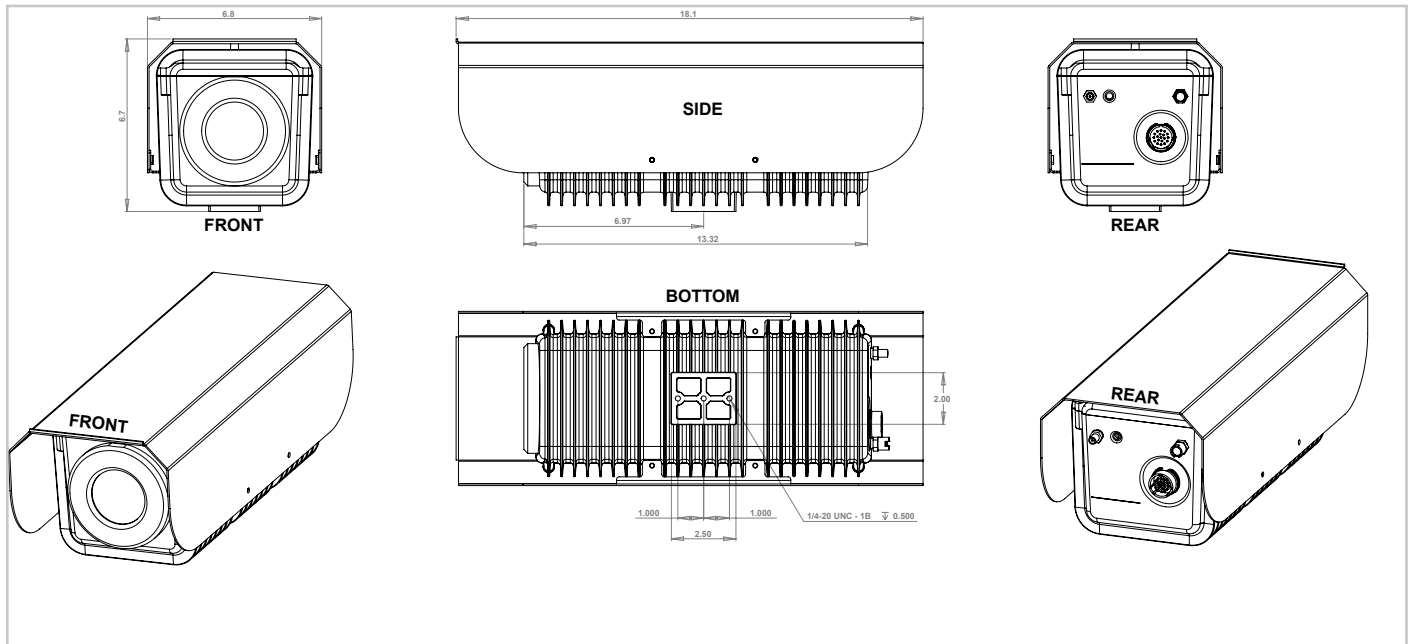
★ Automated Detection Range



Range measurement method for automated detection range of a man

Specifications

Imager		Operating Mode	
Detector	Un-cooled VOx Microbolometer	Operating Mode	Full-duplex
Spectral Response:	8-14 micron	Protocols	Supports all leading network protocols including streaming protocols
Picture Elements	320 (H) x 240 (V)Lens (fixed)	Video Output	
Lens / Field of Views	Fixed focus: 48°, 36°, 24°, 18°, 13°, 9.1°, 7°	Compression Type:	MPEG-4 (Simple Profile, Advanced Simple Profile) MJPEG
Dynamic Range	14 bit digital sensor interface	Bit Rate Profile	Constant (CBR) or variable bit rate (VBR)
Thermal Sensitivity	<75mK, < 50 mK f/1.0	Resolution	320x240
Electrical		Frame Rate	Up to 30 frames per second; user configurable
Voltage:	24 VAC/DC +/- 10% or PoE+ Mode A	Target Tracking Output	
Connector	26 pin Mil-C (power & data)	Communications	Metadata via industry standard XML over a HTTP/HTTPS interface for third-party integration
Power:	15 watts nominal	Tracked object parameters	Current time, alarm state, creation time, GPS position, size, heading, speed, aspect ratio, and alarm zone
Network		SightTracker (optional)	Provides detected targets' GPS coordinates to automatically position PTZ cameras for continual tracking
Ethernet Wired	10/100 RJ45, IEEE 802.3, 802.3i, 802.3u		
Data Rate	64 kbps to 8 Mbps		



Camera Enclosure		Environmental	
Weight:	5.7 kg (12.5 lbs.)	Operating Temperature	-30° to +60°C (-22° to +140°F) - Optional extended temp range available -40° to +70°C (-40° to +158°F)
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")	Storage Temperature	-30° to +70°C (-22° to 158°F)
Enclosure:	NEMA 4X (IP66 compliant)	Relative Humidity:	0 to 100%
Nitrogen purge pressure	6 psi	Safety Compliance:	FCC Part 15, Class A CE
Mounting:	3 x ¼-20 UNC bolts		

Specifications are subject to change without notice.

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