

Customizable LiDAR Sensing Solutions For High Security Applications

REDSCAN Series

The REDSCAN Product Series utilizes LiDAR sensing technology to provide highly accurate detection of intruders and moving objects. Equipped with OPTEX's most advanced technologies, it provides excellent detection performance not affected by variable lighting, temperature, or environmental changes, making it the ideal solution for high security sites.

Applications include:

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Power plants, substations, border protection, correctional facilities, data centers, distribution centers, airports, water treatment plants, ports, warehouses, museums & art galleries, financial institutions, hospitals, and schools.



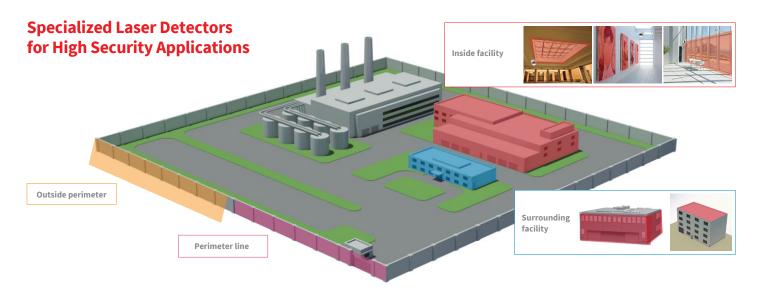
REDSCAN Pro Series







Specialized Laser Detectors for High Security Applications



RLS-3060 Series

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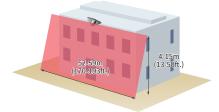


The RLS-3060 series is an innovative laser scan detector that identifies a moving object's size, speed, and distance from the detector. It processes that information with a unique algorithm, providing a highly reliable detection system with minimal false alarms.

FEATURES

•30m (100ft) radius for 190 degrees range •Vertical and horizontal mounting •Unique detection algorithm Automatic area setting function •4 independently adjustable detection areas and 4 linked outputs for PTZ camera control (on Analog connection and IP connection) •Fog cancellation algorithm (Patent listed)

VERTICAL DETECTION ZONE



HORIZONTAL DETECTION ZONE

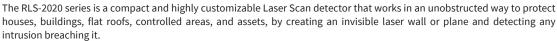
RLS-3060L

•Scene selection (Indoor / outdoor)

RLS-3060SH

Scene selection(outdoor, indoor, indoor ceiling/Wall protection and vehicle) •8 independently adjustable detection area and Redwall event codes for network recorder and video management software (on analog connection and on IP connection) •Built-in heater

RLS-2020 Series





intrusion breaching it.

FEATURES

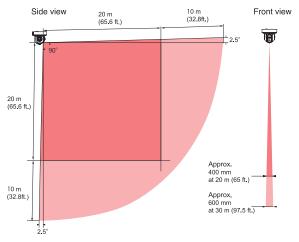
•20m x 20m (65ft. x 65ft.), 95 degree detection area •Vertical and Horizontal detection modes •Multi-angle Adjustment Shell Structure (M.A.S.S.) •Unique detection algorithm •Automatic area setting function Advanced area setting •4 adjustable detection areas on IP connection •Total 3 outputs can be assigned for analog connection

RLS-2020I

Indoor use model

RLS-2020S

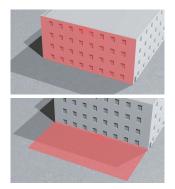
 Indoor / outdoor mode Indoor high resolution mode Indoor throw-in mode





REDSCAN Pro Series





The REDSCAN PRO series can very accurately detect intruders to a range of 165 x 330ft (50 x 100m), without any gaps and keeping the same detection resolution near and far into the detection range. Equipped with OPTEX's most advanced technology, the REDSCAN PRO provides excellent detection performance that won't be affected by variable lighting, temperature or environmental changes, making it the best solution for high security sites.

FEATURES

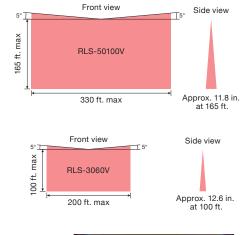
- •RLS-50100V: 50 x 100 m (approx. 165 x 330 ft.)
- •RLS-3060V: 30 x 60 m (approx. 100 x 200 ft.)
- •Very high detection resolution: 0.125°
- Vertical and horizontal mounting
- Selectable installation method (wall, ceiling, pole mount)
 Rectangular detection area
 8 independent detection zones with customizable target size,
- Independent detection zones with customizable target size, sensitivity, and output
- Embedded video camera for visualizing your detection area
 Event log function Confirm events with event log & image
 Auto area adjustment
 Small animal tolerant
- •Setting by Internet browser
- •Environmental resistance function
- RLS-3060V

Indoor / outdoor model

 8 independent detection zones. Configurable sensitivity, target size & output RLS-50100V

Indoor / outdoor model

•Expanded mode: up to 530 ft vertical / 265 ft radius horizontal mount •8 independent detection zones. Configurable sensitivity, target size & output

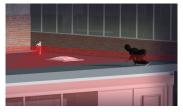




ONVIF (Profile S) conformant*

The REDSCAN Pro LiDARs are ONVIF profile S conformant sensors allowing them to send alarm outputs via the ONVIF protocol to any ONVIF conformant networked video system or IP network devices.

Detect a crawling person





Detect a running person

Thrown object detection



Quick intrusion detection



SPECIFICATIONS

Model		RLS-3060SH	RLS-3060L
Detection method		Infrared Laser Scan	
Laser protection class		Class 1	
Coverage	Vertical area	Max. 100m (s), 60 m (i), at 10% reflectivity	
	Horizontal area	Radius:50m (s), 30 m (i), A	rc:190° at 10% reflectivity
Detection resolution		0.25°	
Communication port		Ethernet ,RJ-45 ,10BASE-T/100BASE-TX	
Protocol		UDP, TCP/IP *Redwall Event Code	
Power input		24 VDC , 24 VAC	
Current draw		400 mA max. (24 VDC) 600 mA max. (24 VAC)	
Heater power input		24 VDC, 24 VAC	-
Heater current draw		400 mA max. (24 V DC/AC)	-
Mounting height	Vertical area	From 4 m (13 ft.) to 15 m (50 ft.) (recommendation)	
	Horizontal area	0.7 m (28 in.) (recommendation)	
Target object selector		S/M/L	
Sensitivity selector		H/M/L	
Camera control output		N.O. 28 VDC, 0.2 A x 4 outputs	
Master alarm output		Form C, 28 VDC, 0.2 A max.	
Trouble output		Form C, 28 VDC, 0.2 A max.	
Tamper output		N.C. 28 VDC, 0.1 A max.	
Environmental disqualification circuit		Form C, 28 VDC, 0.2 A max.	
Alarm period		Approx. 2 sec., Off delay timer	
Operating temperature		-20 to 60 °C (-4 to 140° F)	
Operating temperature with heater		-40 to 60 °C (-40 to 140° F)	-
IP rating		IP66	
Dimensions (H x W x D)		334 x 144 x 155 mm (13.2 x 5.7 x 6.1 in.)	
Weight		2.5 kg (88 oz)	2.4 kg (85 oz)

Model	RLS-2020I	RLS-2020S	
Installation location	Indoor	Indoor/Outdoor	
Detection metod	Infrared Laser Scan		
Laser protection class	Class 1		
Power input	10.5 to 30 VDC, PoE (IEEE802.3af/at compliant)		
Current draw	500mA max. (12 VDC), 250mA max. (24 VDC), 6W max. (PoE)		
Mounting method	Ceiling mount, Wall mount, Tripod mount, Pole mount (option), Recess mount (option)		
Detection area	S: 30m (97.5ft) radius arc i: 20 x 20 m, (approx. 65 x 65 ft.) 95 degrees		
Detection range	Radius 1 to 21m (approx. 3.0 to 68 ft.) at 10% reflectivity		
Detection resolution/ Response time	0.25 degrees / within 75 ms to 1 minute	0.25 degree / within 75msec to 1 minutes (for indoor mode and outdoor mode) 0.25 degree / within 75msec (for indoor throw-in mode), 0.125 degree / within 100msec to 1 minutes (for Indoor high resolution mode)	
Mounting height	2 m (6.7 ft.) or higher	Indoor: 2 m (6.7 ft.) or higher	
(Vertical mode)		Outdoor: 4 m (13 ft.) or higher (Recommended)	
Communication port	Ethernet RJ-45 10BASE-T/100BASE-TX (Auto negotiation)		
Protocol	UDP, TCP/IP (Redwall Event Code), Http (Web setting), SNMP		
Output	3 outputs, 28 VDC 0.2A max. N.O./N.C. Selectable (3 from Master alarm, Zone outputs, Trouble, Tamper)	3 outputs, 28 VDC 0.2A max. N.O./N.C. Selectable (3 from Master alarm, Zone outputs, Trouble, Tamper, D.Q.)	
Input	-	1 Non-voltage contact input	
Alarm period	Approx. 2 sec delay timer		
Operating temperature	-40 to 50 C degrees (-40 to 122 F degrees)	-40 to 60 C degrees (-40 to 140 F degrees)	
IP rating	IP66		
Dimensions (HxWxD)	146 x 160 x 160 mm (5.8 x 6.3 x 6.3 inch)		
Weight	1.0 kg (2.2 lb)		

Model	RLS-50100V	RLS-3060V	
Installation location	Indoor / Outdoor		
Detection method	Infrared Laser Scan		
Laser protection class	Class 1		
Power input	19.2-30 VDC, PoE+ (IEEE 802.3at compliant)		
Current draw	500 mA max. (24 VDC), 12 W max. (PoE+)		
Current draw	with heater option: 1.25 A max. (24 VDC), 25.5 W max. (PoE+)		
Mounting method	Ceiling mount, Wall mount, Pole mount		
Detection area	50 x 100 m, 190 degree (approx. 165 x 330 ft.)	30 x 60 m, 190 degree (approx. 100 x 200 ft.)	
Detection range	Radius 1 to 50 m (approx. 3.3 to 165 ft.) at 10% reflectivity	Radius 1 to 30 m (approx. 3.3 to 100 ft.) at 10% reflectivity	
Detection resolution / Response time	0.125 degrees / within 100 msec. to 15 min.	0.25 degrees / within 100 msec. to 15 min.	
Mounting height (Vertical mode)	Indoor: 2 m (approx. 6.7 ft.) or higher/Outdoor: 4 m (approx. 13 ft.) or higher (Recommended)		
Communication port	Ethernet RJ-45 10BASE-T/100BASE-TX (Auto negotiation)		
Protocol	UDP/TCP/HTTP/HTTPS/IPV4/DNS/DHCP/SNMPv1-v3/NTP/WS-Discovery/ONVIF		
Output	6 outputs, 28 VDC 0.2A max. N.O./N.C. Selectable		
Input	1 Non-voltage contact input		
Alarm period	Approx. 2 second delay timer		
Operating temperature	-20°C to 60°C (-4°F to 140°F)		
operating temperature	with RLS-LWVH: -40 °C to 60°C (-40°F to 140°F)		
Dimensions (H×W×D) , Weight	230 × 160 × 256.6 mm max. (9.1 x 6.3 x 10.1 inch), 2.6 kg (92 oz.)		
IP rating	IP66		

*ONVIF is a trademark of Onvif, Inc. www.onvif.org/profiles/profile-s/

OPTIONS



2020-PDMA Pendant Mount



2020-WMAD Adjustable Extension Wall/Roof



RLS-SB Adjustable angle mounting bracket for RLS-3060 series



RLS-LWV Replacement Window for RLS-3060V & RLS-50100V



2020-MAB Multi-Angle Adjustment Wall Ceiling Mount



RLS-LWVH Replacement Window with heater unit for RLS-3060V & RLS-50100V



LAC-1

Laser Area Checker



Recess mount bracket



2020-WMA 12" wall mount arm bracket

For more information about the REDSCAN Series Please contact us at:

800.966.7839 sales@optexamerica.com



www.optexamerica.com