Mo	odel	RLS-3060SH	RLS-3060L	
Detection method		Infrared Laser Scan		
Laser protection class		Class 1		
Coverage	Vertical area	Max. 60 m (Approx. 200 ft.) at 10% reflectivity /		
Coverage	vortical area	Detection range expansion mode (RLS-3060SH only)		
		enable max. 100 m (Approx. 330 ft.) .*		
	Horizontal area	Radius:30 m (Approx. 100 ft.)		
		Detection range expansion		
		enable radius:50 m (Ap		
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.) (re	ecommendation)	
Target object sele	ector	S/M/L		
Sensitivity selector	or	H/M/L		
Camera control o	utput	N.O. 28 VDC, 0.2 A x 4 outputs / Can be changeable to N.C. *		
Master alarm out	put	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 temper	rature 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	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 15 minute *	0.25 degree / within 75msec to 15 minutes (for indoor mode and outdoor mode) * 0.25 degree / within 25msec (for indoor throw-in mode), 0.125 degree / within 100msec to 15 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/10	00BASE-TX (Auto negotiation)			
Network protocol	TCP/IP, UDP/IP, DHCP, DNS, HTTP, HT	TPS, FTP, SNMPv1/v2c/v3, ICMP, ARP			
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)				

with RSM version 8.2.2 or later.

Note: Items with asterisk(*) become available when RLS-3060 firmware is version 8.0.0 or later with RSM version 8.0.0 or later.

Model	SIP-3020	SIP-4010	SIP-404	SIP-3020/5	SIP-4010/5	SIP-404/5	SIP-5030	SIP-100
Detection method		Passive infrared						
Coverage (main area)	30 x 20 m	40 x 10 m	40 x 4 m	30 x 20 m	40 x 10 m	40 x 4 m	50 x 30 m (165 x 100 ft.)	100 x 3 m (330 x 10 ft.)
	(100 x 65 ft.)	(130 x 33 ft.)	(130 x 13 ft.)	(100 x 65 ft.)	(130 x 33 ft.)	(130 x 13 ft.)		
Coverage (creep zone)	-	-	-	3 x 5 m (10 x 16 ft.) ins	sta ll ed at 2.3 m (7.6 ft.) h	neight, 6 x 9 m(20 x 30 ft	.) installed at 4 m (13 ft.) height, De	tection angle adjustable horizontally
Power input	11 to 16 VDC 22 to 26 VAC with optional heating unit							
Current draw		12 VDC) 75 mA ma 24 VAC) with option			12 VDC) 85 mA ma 24 VAC) with option		45 mA max. (12 VDC) 85 mA max. (24 VAC), 425 mA max. (24 VAC) with optional heating unit	50 mA max. (12 VDC) 90 mA max. (24 VAC), 430 mA max. (24 VAC) with optional heating unit
Mounting height				2.	3 to 4 m (7.6 to 13	ft.)		
Sensitivity selector	Far: SH/H/M/L Near: SH/H/M/L Creep zone: SH/H/M/L							
Range selector	Far: On / Off					-		
Detection logic selector	AND / OR							
Alarm output (main area)			N.O., N.C. 28	VDC 0.2A max.			Far area: N.O., N.C	. 28 VDC 0.2 A max.
	Near area: N.O., N.C. 28 VDC 0.2 A max.				C. 28 VDC 0.2 A max.			
Alarm output (creep zone)	N.O., N.C. 28 VDC 0.2 A max.							
Alarm interval period	Off / 15, 30, 60 sec.							
Trouble output	N.C., 28 VDC 0.2 A max.							
Tamper output	N.C., 28 VDC 0.1 A max.							
Alarm period					Approx. 2 sec.			
Warm-up period	Approx. 60 sec.							
Operating temperature		-25 to +	-60°C, -40 to +60°C	with optional heat	ing unit (-13 to +14	0 °F, -40 to +140° F	with optional heating unit)	
IP rating					Main unit : IP65			
	Chassis : IP55							
Dimensions (H x W x D)	227 x 102 :	x 266 mm (9.0 x 4.0	x 10.5 in.)	248 x 102	x 266 mm (9.8 x 4.0	0 x 10.5 in.)	271 x 102 x 290 mm	(10.7 x 4.0 x 11.4 in.)
Weight		1.2 kg (42 oz)			1.4 kg (48 oz)		1.6 kg	(56 oz)
							·	

Model	SIP-3020WF	SIP-4010WF	SIP-404WF		
Detection method	Passive Infrared				
Coverage	30 x 20 m	40 x 10 m	40 x 4 m		
	(100 x65 ft.)	(130 x33 ft.)	(130 x 13 ft.)		
Power input	3 to 9 VDC Alkaline or lithium battery				
Operating voltage	2.5 to 10 VDC				
Current draw	40 μA(Standby) 5 mA max. (Operating LED ON)				
Mounting height	2.3 to 4 m (7.6 to 13 ft.)				
Sensitivity selector	Far: SH/H/M/L Near: SH/H/M/L				
Range selector	Far: On / Off				
Detection logic selector	AND / OR				
Alarm output	N.C. 10 VDC, 0.01 A max. N.O. 10 VDC, 0.01 A max.				
Alarm interval period	Off / 5, 60, 150 sec.				
Trouble output	N.C., 10 VDC 0.01 A max.				
Tamper output	N.C., 10 VDC 0.01 A max.				
Alarm period	period Approx. 2 sec.		•		
Warm-up period	Approx. 120 sec.				
Operating temperature	-25 to +60°C (-13 to +140°F)				
IP rating	Main unit : IP65				
		Chassis : IP55			
Dimensions (H x W x D)	227 x 102 x 266 mm (9.0 x 4.0 x 10.5 in.)				
Weight	1.2 kg (42 oz)				

^{*} Specifications and design are subject to change without prior notice



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SIP-MINIHOOD

LAC-1

for SIP-3020/4010/404

Laser Area Checker

AWT-3

AVF-1 Area walk tester Area view finde



SIP-HU Heating unit





SIP adjustment tools (AWT-3 + AVF-1) for SIP serie





RLS-LW for RLS-2020 series

RLS-SB



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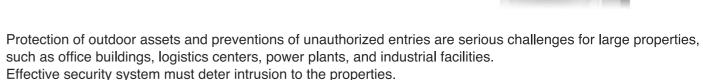
OPTEX SECURITY Sp.z o.o. (Poland)

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REDSCAN / REDWALL **PRODUCT DIGEST**





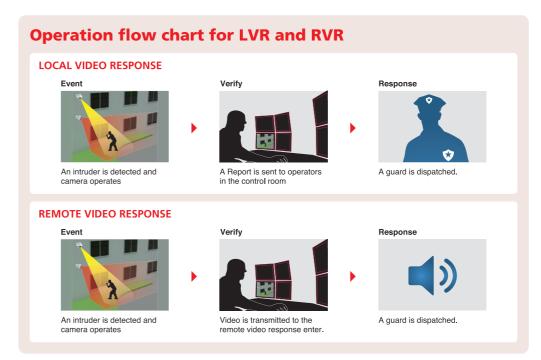
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There are two practical methods. One method is setting up a local video response (LVR) system. The system employs security guards and uses video surveillance system linked to external detectors, When an external detector detects an intrusion, a camera captures an image and sends the image to a guard room. Then, security guards are dispatched to the point of detection to rectify the event. In this way, LVR changes a traditional usage of guards and night watches into efficient way of deterring intrusions.

Another method is called a remote video response (RVR) system.

RVR systems use external detectors, network connected cameras and speakers for remote audio announcement, hen an external detector detects an intrusion, an operator in a distant RVR center verifies an image and remotely makes a voice warning through the speakers. The operator at the RVR center can also reports the event to a designated key-holder/local guards or makes a call out to police to set an ordinance.

REDSCAN and REDWALL are the most suitable indoor/outdoor detectors for these LVR and RVR security systems. Due to their reliable detections, LVR guard rooms and RVR centers can obtain critical images of intrusions that may lead to crime, acts of vandalism, terrorism or any threats to important properties.

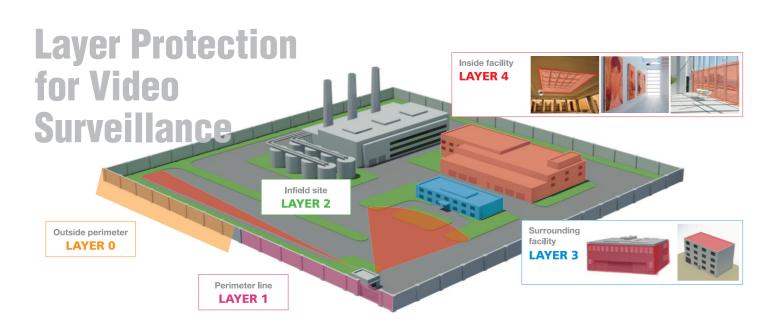












Laser Scan Detector

RLS-3060 series



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, resulting in a highly reliable detection system with minimal false alarms.

FEATURES

•30m radius for 190 degrees range

- ·Vertical and horizontal mounting
- Unique detection algorithm
- ·Automatic area setting function
- •4 independently adjustable detection areas and 4 dry contact outputs for PTZ control or
- 8 independently adjustable detection areas and REDWALL Event Code for Network
- Video Recorder and Video Management Software (on IP Connection) •Changeable Dry-contact Alarm Output type N.O. to N.C.
- •Fog cancellation algorithm (Patent listed)

RLS-3060L

LAYER 0 LAYER 1 LAYER 3 LAYER 4

•Area masking / Allocation function (Either 1 pattern can be set.) •Scene selection (Indoor, Outdoor, Indoor/Outdoor Fence/Wall top protection, Indoor/Outdoor Loitering)

RLS-3060SH

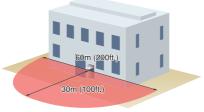
LAYER 0 LAYER 1 LAYER 3 LAYER 4

•Detection range expansion mode (50m radius for 190 degrees) can be selected. •Scene selection (Indoor, Outdoor, Indoor/Outdoor Fence/Wall top protection, Indoor/Outdoor Loitering, Indoor Ceiling/Wall protection and Vehicle detection) •Advanced area setting, Max. 4 Area Masking / Allocation patterns can be set.

VERTICAL DETECTION ZONE



HORIZONTAL DETECTION ZONE



20m (65ft.)

Laser Scan Detector

RLS-2020 series

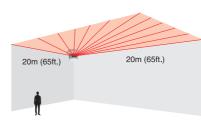


The RLS-2020 series is a compact and highly customizable laser scan detector that helps protect in an unobstructed way, houses, buildings, flat roofs, controlled areas and assets by creating an invisible laser wall or plane and detecting any intrusion breaching it.

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
- •Integration to external devices and applications with REDWALL Event Code.
- •Supporting multiple network protocols, e. a. TCP/IP, UDP/IP, DHCP, DNS,
- HTTP, HTTPS, FTP, SNMPv1/v2c/v3, ICMP, ARP.

LAYER 4 **RLS-2020S** LAYER 0 LAYER 2 LAYER 3 LAYER 4



20m (65ft.)

Technology I PIR sensor with double conductive shielding

REDWALL-V employs five innovative sensing technologies

for visible light and RFI protection.

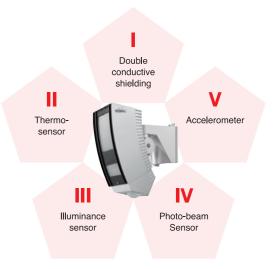
*Thermo-sensor for automatic sensitivity adjustment Technology II

Technology III *Illuminance sensor for automatic sensitivity adjustment

Technology IV Photo-beam sensor for anti-masking **Technology V** Accelerometer for anti-rotation

By using these five technologies, The REDWALL-V series provides the following three benefits:

- 1. Reduction of false alarms
- 2. Quick and reliable installation
- 3. Protection from vandalism
- *REDWALL-V uses surrounding temperature and luminance information to optimize its sensitivity to reduce false alarms



Synthesized Intelligent PIR

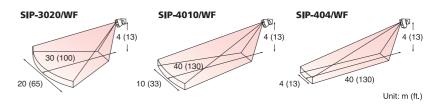
REDWALL-V series



SIP-3020 SIP-4010 SIP-404

LAYER 2 LAYER 3

·Standard short range type



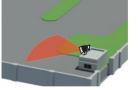


SIP-3020WF SIP-4010WF SIP-404WF

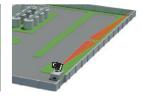
LAYER 2 LAYER 3

 Battery operated ·Short range type

·Compatible with ·Wireless transmitte



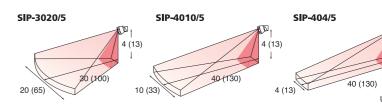






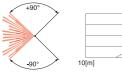
SIP-3020/5 SIP-4010/5 SIP-404/5

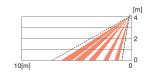
LAYER 2 LAYER 3 ·Short range type •With creep zone



Creep zone

The built-in creep zone detector provides a 3m x 5m (10' x 16') at 2.7m (7.6') height detection area directly below the detector, which eliminates the normal "dead space" that an intruder could enter a protected area. The creep zone detection area can be adjusted between -90 to +90 degree horizontally and -3 to +3 degree vertically.







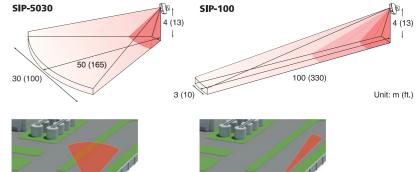
SIP-5030 **SIP-100**

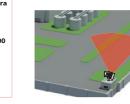
•With creep zone

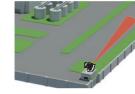
LAYER 2 LAYER 3 Long range type

LAYER 0 LAYER 1

SIP-3020/5, SIP-4010/5, SIP-404/5, SIP-5030 have 2 outputs - Main area and Creep zone. SIP-100 has 3 output - Far. Near and Creep zone. Multiple outputs can be utilized for switching presets of PTZ camera or control digital zoom.









•Indoor / outdoor mode ·Indoor high resolution mode

•Indoor throw-in mode