SPECIFICATIONS

	11101115					
Model		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				
	Horizontal area	Radius:30 m (Approx. 100 ft.), Arc: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 dr	aw	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 o	utput	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))° 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	Cla	s 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, F	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/		0.25 degree / within 75msec to 1 minutes			
Response time	0.25 degrees / within 75 ms to 1 minute	(for indoor mode and outdoor mode) 0.25 degree / within 25msec (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/10	00BASE-TX (Auto negotiation)			
Protocol	UDP, TCP/IP (Redwall Event C	ode), 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	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.) in:	stalled at 2.3 m (7.6 ft.) h	neight, 6 x 9 m(20 x 30 f	t.) installed at 4 m (13 ft.) height, De	tection angle adjustable horizontally
Power input		? 	1	1-16 VDC 22-26 VA	AC, 22-26 VAC with	optional heating u	nit	
Current draw		12 VDC) 75 mA ma 24 VAC) with optior			(12 VDC) 85 mA m 24 VAC) with optio		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 Far: SH/H/M/L Near: SH/H/M/L Far: SH/H/M/L Near: 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.
2	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 V			/DC 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 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.		ax.			
Tamper output	N.C., 10 VDC 0.01 A max.					
Alarm 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.





for SIP series

SIP-MINIHOOD

LAC-1

Sun/Snow shield for SIP-3020/4010/404





SIP-MIDIHOOD

RLS-AT

RLS Adjustment Tool kit

(Including REDSCAN MANAGER Setup software and LAC-1)













Heating uni





RLS-SB





RLS-RB

RLS-LW



OPTEX CO.,LTD. (JAPAN)

URL: http://www.optex.net/



REDSCAN / **REDWALL PRODUCT DIGEST**

For efficient Video surveillance



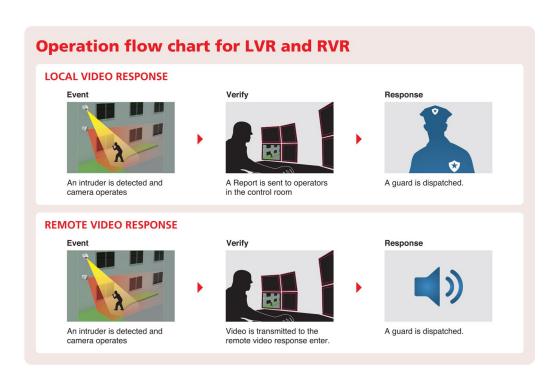
The protection of outdoor assets and the prevention of unauthorized entry is a serious issue for large properties, such as commercial facilities, logistics centers, power plants, and offices or industrial facilities. Effective protection must deter intrusion to the facilities.

One option for solving security issues is local video response (LVR), in which the security guards use video surveillance system linked with external detectors. If the detector detects an intrusion, a linked camera captures the image, and sends it to guard room, and security guards are dispatched to the site to check the problem. Local video response provides a more efficient use of security resources that the traditional use of guards.

Remote video response (RVR) is another solution. This system uses linked external detectors, video transmission, and speakers to protect the site remotely.

If a linked detector is triggered, the operator checks the image, and makes a voice warning remotely. If necessary, the remote video response center dispatches guards or reports the event to key-holders and to police.

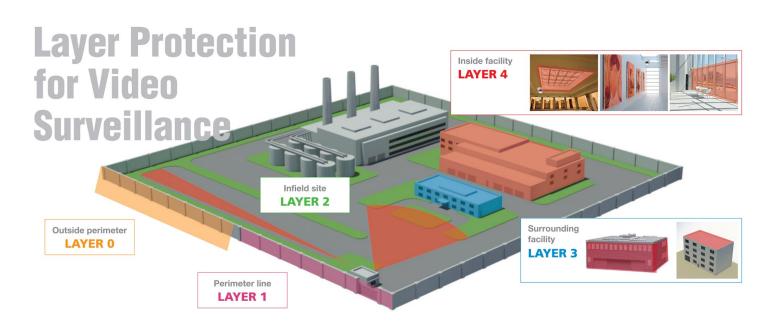
REDSCAN and REDWALL are indoor/outdoor detectors which are specialized for these video surveillance applications. By providing high reliable detections, they enable operates to obtain the crucial images of crime, vandalism, terrorism or other threats and to take the appropriate actions.











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 linked outputs for PTZ camera control
- (on Analog connection and IP connection)
- •Fog cancellation algorithm (Patent listed)

RLS-3060L

LAYER 0 LAYER 1 LAYER 3 LAYER 4

•Scene selection (Indoor / outdoor)

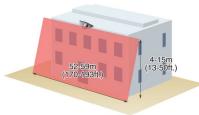
RLS-3060SH

LAYER 0 LAYER 1 LAYER 3 LAYER 4

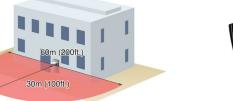
Scene selection(outdoor, indoor, indoor ceiling/Wall protection and vehicle)
•8 independently adjustable detection area and Redwall event codes for network recorder and video management software
(on analog connection and on IP connection)

•Ruilt-in heater

VERTICAL DETECTION ZONE



HORIZONTAL DETECTION ZONE



Laser Scan Detector

RLS-2020 series



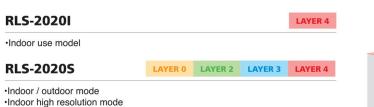
The RLS-2020 series is a compact and highly customizable Laser Scan detector that helps protect in an unobstructed way, houses, buildings, flat roofs, controlled areas and assets by creating an invisible laser wall or plane and detecting any intrusion breaching it.

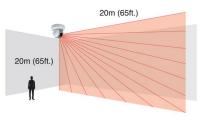
FEATURES

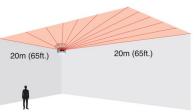
- •20m x 20m (65ft. x 65ft.), 95 degree detection area
- Vertical and Horizontal detection modes
- •Multi-angle Adjustment Shell Structure (M.A.S.S.)
- Unique detection algorithm
- Automatic area setting function
- ·Advanced area setting

·Indoor throw-in mode

- •4 adjustable detection areas on IP connection
- •Total 3 outputs can be assigned for analog connection







REDWALL-V employs five innovative sensing technologies

Technology I PIR sensor with double conductive shielding

for visible light and RFI protection.

Technology II *Thermo-sensor for automatic sensitivity adjustment
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

LAYER 2 LAYER 3

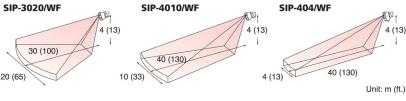
LAYER 2 LAYER 3



SIP-3020 SIP-4010 SIP-404

104 LAYER 2 LAYER 3

Standard short range type





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

IP-4U4VVF

Battery operatedShort range type

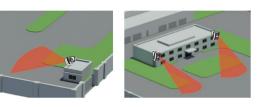
•Compatible with

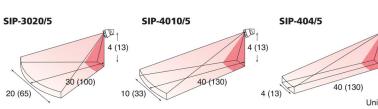
•Wireless transmitter



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

Short range typeWith creep zone

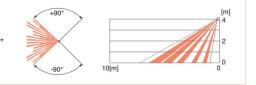




Creep zone

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.

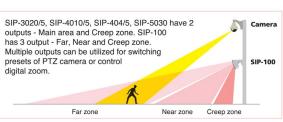
SIP-5030

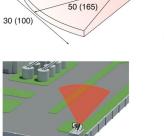


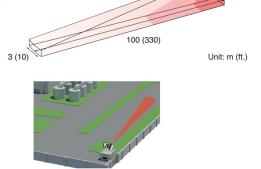


SIP-5030 SIP-100 LAYER 0 LAYER 1
LAYER 2 LAYER 3

Long range typeWith creep zone







SIP-XXXX-IP model is available. The package includes SIP detector and PIE-1 (PoE IP encoder unit).