

SIP 3020  
SIP 4010  
SIP 404  
SIP 3020/5  
SIP 4010/5  
SIP 404/5  
SIP 3020WF  
SIP4010WF  
SIP404WF  
iSeries SIP 3020WFi  
iSeries SIP4010WFi  
iSeries SIP404WFi  
SIP 3020CAM  
SIP 5030  
SIP 100  
REDFSCAN RLS 3060SH  
REDNET



Quality detection system for video surveillance  
**REDWALL**<sup>®</sup>  
Unrivalled performance

### Intelligent PIR Detection System for CCTV Applications

Detects ambient temperature and illuminance for automatic sensitivity management

Advanced detection algorithm

Detection logic selector

Adjustable alarm interval time

Wireless Ready version available (WF Series)

### Anti-Vandalism Functions

Anti-rotation function with 3-axis accelerometer

Anti-masking function with photo-beam

Reinforced polycarbonate housing

Max. 13ft. (4m) installation height





# SIP-3020 (3020/5), SIP-4010 (4010/5), SIP-404 (404/5)



## FEATURES

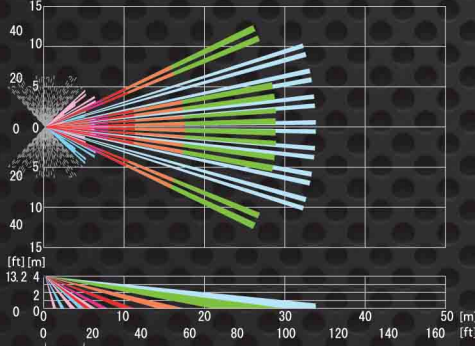
- Three dual pyro-elements with patented Double Conductive Shielding
- Independent sensitivity selector for near/far areas
- Independent N.C. and N.O. outputs
- Additional /5 Series Features
- Built-in creep zone detector
- Independent sensitivity selector for creep/near/far areas

## OPTIONS

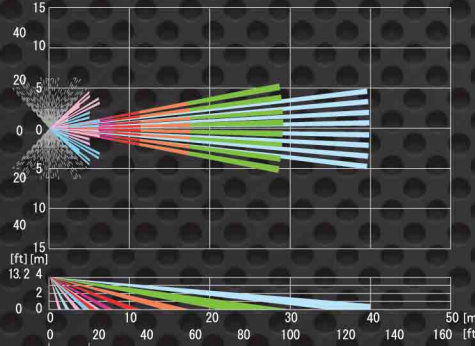
- AVF-1: Area View Finder \*Required for Optimal Alignment\*
- SIP-HU: Heating Unit
- AWT-3: Audible Walk Tester \*Required for Optimal Alignment\*
- SIP-MINI HOOD: Sun/Snow shield

Models	SIP-3020, SIP-4010, SIP-404 SIP-3020/5, SIP-4010/5, SIP-404/5
Detection method	Passive infrared
Coverage (Main Area)	SIP-4010: 130 x 33 ft. (40 x 10 m)
	SIP-404: 130 x 13 ft. (40 x 4 m)
	SIP-3020: 100 x 65 ft. (30 x 20 m)
Coverage (5 Series Creep Zone)	10 x 16ft. (3x 5m) installed at 7.6ft. (2.3m) height
	20 x 30ft. (6 x 9m) installed at 13ft. (4m) height Detection angle adjustable horizontally
Power input	11-16 VDC 22-26 VAC
Current draw (5 Series)	35mA max. (12VDC) 70mA max. (24 VAC)
	40mA max. (12VDC) 75mA max. (24 VAC)
Mounting height	7.6 to 13 ft. (2.3 to 4 m)
Sensitivity selector	Far, Near & Creep zones: SH/H/M/L
Range selector	Far area: On/Off
Detection logic selector	AND / OR
Alarm output (Main)	N.O., N.C. 28VDC 0.2A max.
Alarm output (Creep)	N.O., N.C. 28VDC 0.2A 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 temp.	-13 to +140F, -40 to +140F w/optional heating unit (-25 to +60C, -40 to +60C w/optional heating unit)
IP rating	Main unit: IP65 Chassis: IP55
Dimensions (H x W x D)	9.8 x 4.0 x 10.5 in. (248 x 102 x 266mm)
Weight	1.4kg (48 oz)

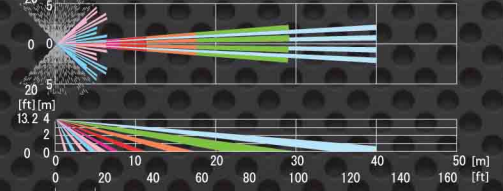
SIP-3020, SIP-3020/5 (100' x 65')



SIP-4010, SIP-4010/5 (130' x 33')



SIP-404, SIP-404/5 (130' x 13')



The detection angle of the creep zone can be adjusted  $\pm 135^\circ$  horizontally as shown in gray.

# SIP-3020CAM



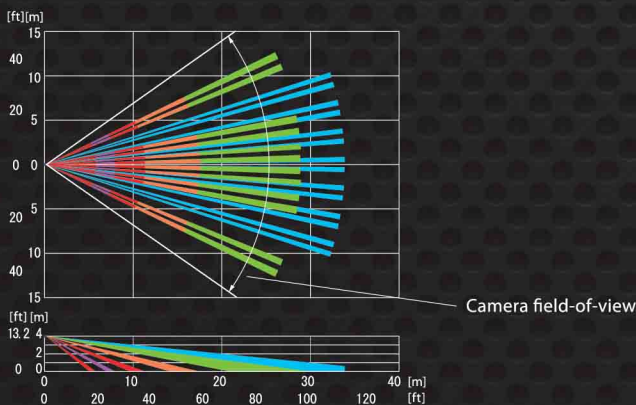
## FEATURES

- Three dual pyro-elements with patented Double Conductive Shielding
- Independent sensitivity selector for near/far areas
- Independent outputs N.C. and N.O.
- High-quality camera image: Day (color)/Night(B/W)
- 480 TV lines
- Varifocal lens 3-9mm
- Minimum illumination:  
Day(color)0.5 lx, Night (B/W):0.03 lx

## OPTIONS

- AVF-1: Area View Finder \*Required for Optimal Alignment\*
- AWT-3: Audible Walk Tester \*Required for Optimal Alignment\*

Model	SIP-3020CAM DN
Detection method	Passive Infrared
Coverage	100 x 65 ft. (30 x 20 m)
Power input	12 VDC
Current draw	180mA (12 VDC)
Mounting height	7.6 to 13 ft. (2.3 to 4 m)
Sensitivity selector	Far: SH/H/M/L, Near: SH/H/M/L
Range selector	Far: On/Off
Alarm output	N.O., N.C. 28 VDC 0.2A 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.
Image sensor	1/3" CCD (NTSC)
TV line	480TVL (at wide position)
Resolution	NTSC 768 H x 494 V
Lens	f= 3 to 9mm, varifocal,DC auto iris lens F1.2
Minimum illumination	Day (colour) : 0.5 lx (F1.2) Night (B/W) : 0.03 lx (F1.2)
Video output	1.0Vp-p/75Ω BNC connector, NTSC
Operating temperature	-13° to +140° F, -40° to +140° F optional heater unit (-25° to +60° C, -40° to +60° C with optional heater unit)
IP rating	Main unit:IP65 Chassis:IP55
Dimensions (H x W x D)	9.9 x 4.0 x 12.5 in. (252 x 102 x 317 mm)
Weight	52 oz (1.5 kg)





# SIP-3020WF (3020WFi), SIP-4010WF (4010WFi), SIP-404WF (404WFi)



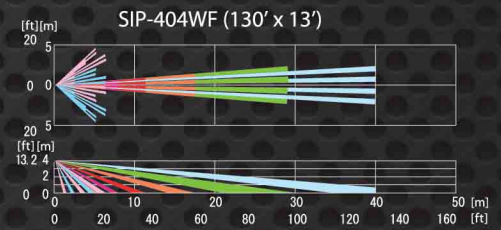
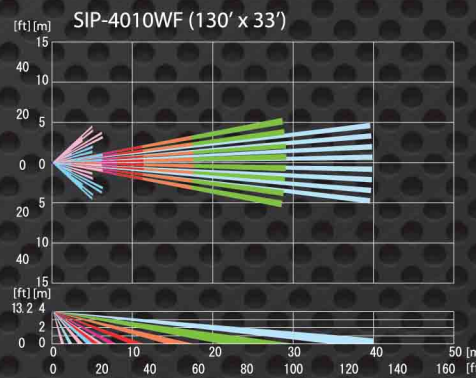
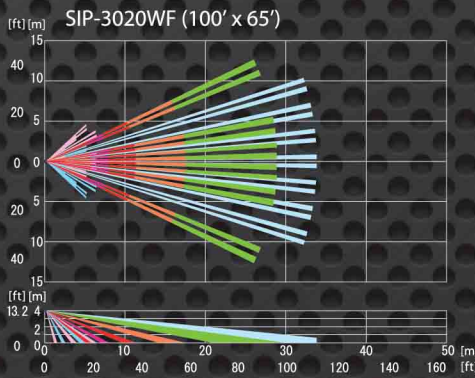
## FEATURES

- Wireless Ready, Battery Operated version
- Works with most manufacturer's wireless systems
- iSeries (WFi) version includes Inovonics transmitter and batteries
- Low power consumption (3-9VDC, 40 A<sup>u</sup> (standby) 5mA max.)
- Low battery signal
- Independent sensitivity selector for near/far areas
- Independent N.C. and N.O. ALARM output

## OPTIONS

- AVF-1: Area View Finder \*Required for Optimal Alignment\*
- AWT-3: Audible Walk Tester \*Required for Optimal Alignment\*
- SIP-MINI HOOD: Sun/Snow shield

Models	SIP-3020WF, SIP-4010WF, SIP-404WF SIP-3020WFi, SIP-4010WFi, SIP-404WFi (Inovonics Transmitter & Battery Included in WiFi)
Coverage	SIP-4010: 130 x 33 ft. (40 x 10 m) SIP-404: 130 x 13 ft. (40 x 4 m) SIP-3020: 100 x 65 ft. (30 x 20 m)
Power input	3 to 9VDC Alkaline or lithium battery
Current draw	40 <sup>u</sup> A(Standby) 5mA max. (Operating LED ON)
Mounting height	7.6 to 13 ft. (2.3 to 4 m)
Sensitivity selector	Far: SH/H/M/L Near: SH/H/M/L
Range selector	Far area: On/Off
Detection logic selector	AND / OR
Alarm output (Main)	N.C. 10VDC, 0.01A max. N.O. 10VDC, 0.01A 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	Approx. 2 sec.
Warm-up period	Approx. 120 sec.
Operating temp.	-13 to +140F (-25 to +60C)
IP rating	Main unit: IP65 Chassis: IP55
Dimensions (H x W x D)	9.0 x 4.0 x 10.5 in. (227 x 102 x 266mm)
Weight	42 oz



# SIP-100, SIP-5030



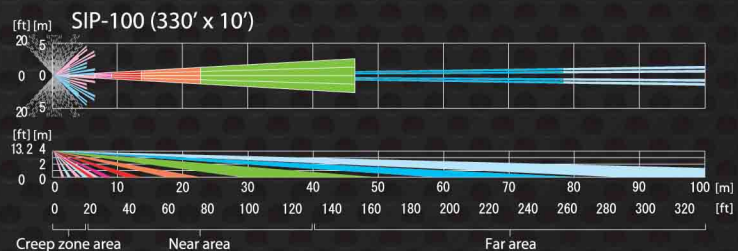
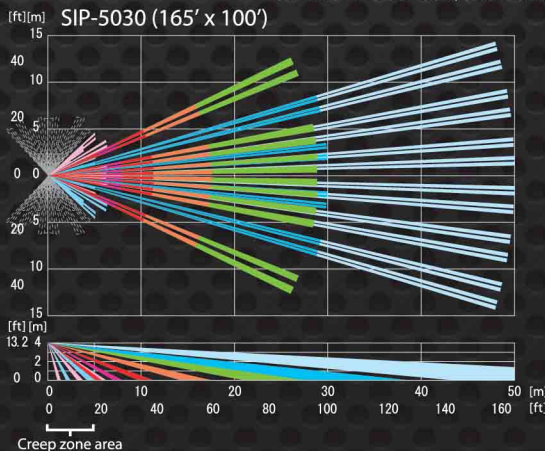
## FEATURES

- Double Dual/One Quad pyro-elements with patented Double Conductive Shielding for main area
- Built-in creep zone detector (Double dual pyro-elements)
- Independent sensitivity selector for creep/near/far areas
- Main area (SIP-5030): Independent N.C. and N.O.
- 2 x N.C. and N.O. independent output for Near and Far areas (SIP-100)

## OPTIONS

- AVF-1 Area View Finder \*Required for Optimal Alignment\*
- SIP-HU Heating Unit
- AWT-3 Audio Walk Tester \*Required for Optimal Alignment\*
- SIP-MIDI HOOD Sun/Snow shield

Model	SIP-5030	SIP-100
Detection method	Passive infrared	
Coverage (main area)	165 x 100 ft. (50 x 30 m)	330 x 10 ft. (100 x 3 m)
Coverage (creep zone)	10 x 16ft. (3x 5m) installed at 7.6ft. (2.3m) height, 20 x 30ft. (6 x 9m) installed at 13ft. (4m) height	
Power input	11-16VDC 22-26VAC	
Current draw	SIP-5030: 40mA max. (12VDC) 75mA max. (24VAC) SIP-100: 45mA max. (12VDC) 80mA max. (24VAC)	
Mounting height	7.6 to 13 ft. (2.3 to 4 m)	
Sensitivity selector	Far: SH/H/M/L Near: SH/H/M/L Creep zone: SH/H/M/L	
Alarm output (main area)	N.O., N.C. 28VDC 0.2A max.	Far area: N.O., N.C. 28VDC 0.2A max. Near area: N.O., N.C. 28VDC 0.2A max
Detection logic selector	AND / OR	
Alarm output (creep zone)	N.O., N.C. 28VDC 0.2A 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	-13° to +140° F, -40° to +140° F with optional heating unit (-25° to +60° C, -40° to +60° C with optional heating unit)	
IP rating	Main unit: IP65 Chassis: IP55	
Dimensions (H x W x D)	10.7 x 4.0 x 11.4 in. (271 x 102 x 290 mm)	
Weight	56 oz (1.6kg)	



The detection angle of the creep zone can be adjusted  $\pm 135^\circ$  horizontally as shown in gray.



# REDFSCAN RLS-3060SH \*\*Must be certified & registered with Optex to Purchase\*\*



## FEATURES

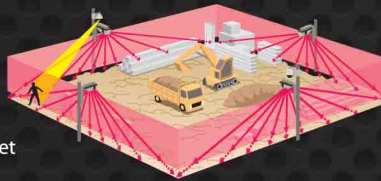
- 100ft. radius for 190° range
- Vertical and horizontal mounting
- Unique detection algorithm
- Form C master alarm output
- Automatic area setting function
- Environmental disqualification circuit
- Scene selection (Outdoor, Indoor, Indoor Ceiling/Wall protection and Vehicle)
- 4 independently adjustable detection areas and 4 linked outputs for PTZ camera control (on Analog connection)
- 8 independently adjustable detection area and Redwall event codes for Network Recorder and Video Management software (on IP connection)
- Anti-rotation function
- Anti-masking function
- Fog cancellation algorithm (Patent listed)
- Trouble output
- Tamper output
- Built-in heater
- Analog (Dry contact) & IP connection
- Environmental resistance function
- Non detection area adjustment
- Alarm duration function

Model	RLS-3060SH
Detection method	Infrared Laser Scan
Laser protection class	Class 1
Coverage	Vertical area
	Horizontal area
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	400mA max. (24 VDC) 600mA max. (24 VAC)
Heater power input	24 VDC, 24 VAC
Heater current draw	400mA max. (24 VDC/AC)
Mounting height	Vertical area
	Horizontal area
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.
Env. disqualification circuit	Form C, 28 VDC, 0.2 A max.
Alarm period	Approx. 2 sec., Off delay timer
Operating temperature	-4 to 140° F (-20 to 60 °C)
Operating temperature w/ heater	-40 to 140° F (-40 to 60 °C)
IP rating	IP66
Dimensions (H x W x D)	13.2 x 5.7 x 6.1 in. (334 x 144 x 155 mm)
Weight	88 oz. (2.5kg)

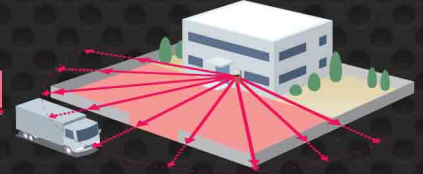
## SCENE SELECTION FEATURE



• Vertical detection area example



• Horizontal detection area example



## OPTIONS

- RLS-AT Redscan adjustment tool kit (Including REDSCAN MANAGER Setup software and LAC-1 Laser area checker)
- RLS-PB Pole mount bracket
- RLS-SB Adjustable angle mounting bracket
- AWT-3 Audible walk tester

# REDNET

## FEATURES

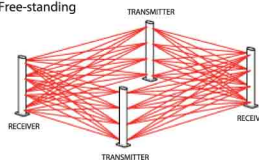
- 16 beam pattern for high security applications
- 30' to 80' [RN4/10-25]
- 80' to 245' [RN4/25-75]
- 245' to 495' [RN4/75-150]
- Sixteen active beams
- Graded alarm responses
- No hardwire synchronization
- Integral head heaters
- Field adjustable detection levels
- Alignment tester included
- Fog detection circuitry
- Free standing or wall mount towers available  
AX-TW200: Free standing / AX-TW200M: Wall Mount [Towers required, sold separately]

## TOWERS AND ACCESSORIES

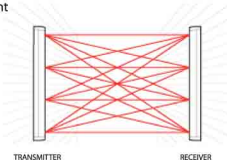
- AX-ASM: Tower Assembly (Site Plan Required)
- AX-TW200: Double sided, free-standing tower (not included, not sold in pairs)
- AX-TW200M: Single sided, wall mount tower (not included, not sold in pairs)
- AX-TWEB: Tower Concrete Floor Bracket for AX-TW200
- AX-TWSM: Wall Mount Bracket for AX-TW200
- AX-TWAA: Tower Anti-Climb Top Tamper
- AX-PT3104: Replacement Lens for Towers

Model	RN4-10/25, RN4-25/75, RN4-75/150
Detection method	16 Active infrared beams
Coverage	RN4-10/25: 30ft. to 80ft. (10m to 20m)
	RN4-25/75: 80ft. to 245ft. (25m to 75m)
	RN4-75/150: 245ft. to 495ft. (75m to 150m)
Power input	12VDC
Current draw	Transmitter: 40mA (max.) at 12V DC Receiver: 60mA (max.) at 12V DC
Mounting	Free Standing (AX-TW200) or Wall Mount (AX-TW200M) Towers ***Required, Sold Separately***
Alarm output	Form C Relay 1A @ 24VDC
Fog Output	Form C Relay 1A @ 24VDC
Tamper output	N.C. opens when tower cover removed 28V DC 0.1A
System alarm response (interruption period)	1) 40mSec any 2 blocked
	2) 120mSec to 1500mSec any 1 blocked
	3) No alarm, nay 1 blocked
Operating temperature	-13°F to +122°F (-25°C to +50°C)
Heating System	Integral thermostat below + 15 deg. C
Heater Current Draw	10 - 15V AC/DC
Heater Power Supply	Current draw 800mA per set

AX-TW200  
Double sided/  
Free-standing



AX-TW200M  
Single sided/  
Wall mount



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