



BATTERY POWERED iSERIES



 powered by
inovonics®

**ACTIVE & PASSIVE INFRARED —
INDOOR & OUTDOOR DETECTION**



iSeries Detection Solutions

BATTERY-POWERED WIRELESS

Professional Grade Detection Powered by Inovonics

Greatly reduce install time and labor cost with the industry's number one choice for battery-powered perimeter and area protection. From rooftop HVAC protection to electrical substations, the iSeries line of detectors from OPTEX offers a battery-powered, wireless solution for all your security needs. Each iSeries detector includes an Inovonics EN1941 wireless transmitter pre-installed, allowing for a quick and inexpensive setup with no trenching or wiring needed. Batteries are also included, with an average lifespan of two to ten years depending on the detector and frequency of use. From perimeter to interior, no one offers a more complete line of battery-powered security detections and solutions than OPTEX.



FEATURES & VALUE

Battery-Powered Advantages & Value

What value comes with wireless, battery-powered detectors? From installation time to labor cost, iSeries detectors offer these advantages over traditional hardwired installations:

1. Cost

In the majority of cases, applications such as utility substations and large parking lots can be too expensive or labor intensive to trench.



2. Power

iSeries battery-powered beams and PIRs can be installed in areas where power is not readily available, such as roof tops or remote locations.



3. Installation Downtime

Because of the significant drop in installation time and the fact that no trenching is required, end-users are less inconvenienced. Businesses and residences can operate as usual during the install.



4. Flexible

In environments where storage conditions may change, such as construction sites and storage facilities, battery-powered device options allow the detection area to move accordingly with minimal effort.



5. Easy Upgrade

Battery-powered beam and PIR options can easily be added on to existing security, video, or access systems.



Wireless Battery-Powered Multi-Level Security

Perimeter Security

Reduction in Labor Costs & Installation Time

The iSeries battery-powered, wireless detectors are a perfect way to set up and secure a perimeter without having to trench or run wire. Because of this, an end user can continue business as usual without interruption due to installation labor. A complete perimeter can be set up in hours as opposed to days or even weeks. Both the installer and end-user can also expect a substantial cost savings alternative to a traditional hardwired system. Customers who previously shied away from perimeter security due to cost can now afford a first line of defense as opposed to waiting for a person to do damage before an alarm is triggered.



Approach / Spot Protection

Flexible Security for Changing Site Conditions

For areas inside the perimeter, the iSeries mid-range PIR detectors are a great way to add additional protection to assets and high security areas. In applications where conditions and security needs change on a regular basis, such as construction sites and storage yards, the battery-powered, wireless iSeries can be easily moved or adjusted to fit those needs. Want to back up any alarms with CCTV footage? No problem! The iSeries detectors can easily be used to trigger PTZ or fixed cameras for video verification.



Immediate Perimeter / Boundary Security

Exterior Structure Protection

For areas inside the perimeter, the iSeries mid-range PIR detectors are a great way to add additional protection to assets and high security areas. In applications where conditions and security needs change on a regular basis, such as construction sites and storage yards, the battery-powered, wireless iSeries can be easily moved or adjusted to fit those needs. Want to back up any alarms with CCTV footage? No problem! The iSeries detectors can easily be used to trigger PTZ or fixed cameras for video verification.

Interior Protection

Battery-Powered Warehouse and Indoor Detection

The harsh conditions of a warehouse require a robust detector. The iSeries battery-powered, wireless interior detectors allow for a quick and easy install with stable detection in even the harshest of environments. In addition, all iSeries outdoor detectors will work indoors as well.

Battery-Powered, Wireless Protection

iSERIES LINEUP



CX-702Ri / EX-35Ri HARSH ENVIRONMENT / INDOOR COMMERCIAL PIRS

- CX: Selectable 70 x 70ft / 150 x 8ft detection pattern
- EX: Selectable 35 x 35ft / 55 x 5.5ft detection pattern
- Low indoor temperature rating (14°F)
- Spherical fresnel lens design
- Patented multi-focus technology
- Double conductive shielding (CX)
- Temperature compensation (CX)
- 3-step lens angle adjustment
- Tamper proof (EX)

Model	EX-35Ri	CX-702Ri
Coverage	Wide: 35ft. x 35ft. 85° (11m x 11m) Long: 55ft x 5.5ft (17m x 1.7m)	Wide: 70ft. x 70ft. 85° (21m x 21m) Long: 150ft x 8ft (45m x 2.4m)
Power Input	3-9V DC lithium battery (included)	
Current Draw	25µA (standby)/80mA (test, LED on)	25µA (standby)/80mA (test, LED on)
Alarm Output	Form C 10V DC 0.01A max.	
Tamper Switch	Form C 28V DC 0.1A max.	
Operating Temp.	14°F to 122°F	
Mounting Height	4ft - 8ft (1.5m - 3.6m) Pet Alley: 2ft. 4ft. (.6m - 1.2m)	5ft - 12ft (1.5m - 3.6m)



FTN-RAMi ALL ENVIRONMENT SHORT RANGE DUAL PIR

- Digital anti-masking
- 16.5ft or 6.7ft selectable narrow range
- 190° horizontal adjustment
- Separable form factor
- Super multi dimension analysis logic
- Double conductive shielding
- Intelligent 'AND' logic
- IP55

Model	FTN-RAMi
Coverage	Long Setting: 16.5ft. x 3.3ft. (5m x 1m) Short Setting: 6.7ft. x 3.3ft. (2m x 1m)
Power Input	3-9V DC lithium battery (included)
Current Draw	19µA (standby) 73mA (max)
Alarm Output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)
Trouble Output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)
Operating Temp.	-4 to 140°F (-20 to 60°C)
Mounting Height	2.7ft to 4ft (0.8m to 1.2m)



BX-80NRi ALL ENVIRONMENT IMMEDIATE PERIMETER DUAL PIR

- Unique 3 x 40ft pattern in each direction from sensor
- Battery saving circuit
- Low current draw
- Limit detection range function
- Size judging function to avoid false alarms
- Variable detection range to 80ft (40ft each side)
- IP55

Model	BX-80NRi
Coverage	3ft x 80ft (40ft on each side)
Power Input	3-9V DC lithium battery (included)
Current Draw	24µA(Standby) / 73mA(Walktest, LED on)
Alarm Output	Form C Solid state switch: 10V DC 0.01A
Tamper Switch	Form C activates when cover is removed
Operating Temp.	-4°F to 122°F (-20°C to 50°C)
Mounting Height	2.7ft to 4ft (0.8m - 1.2m)



BXS-RAMi ALL ENVIRONMENT BOUNDARY QUAD PIR

- 80ft total detection coverage, 40ft on each side
- Quad PIR technology, versatile design
- Anti-masking, with size judging function
- Monitors both sides independently or simultaneously
- Extreme high detection mode
- Automatic walk test mode
- IP55

Model	BXS-RAMi
Coverage	80ft total, 40ft on each side
Power Input	Qty 2 of 3V DC Lithium or Alkaline batteries
Current Draw	25µA stand-by/78mA max at 3V DC
Alarm Output	Solid-state switch, 10V DC 0.01 A max, Individual, right/left or general, N.O. or N.C. selectable
Tamper Output	Shared with trouble output
Operating Temp.	-22°F to 140°F (-30°C to 60°C)
Mounting Height	2'7" to 4' (0.8 to 1.2m)



VXS-RAMi / VXS-RDAMI ALL ENVIRONMENT WIDE ANGLE PIR & DUAL TECH

- RAMi: PIR with anti-masking
- RDAMI: Dual tech microwave & PIR with anti-masking
- 40ft 90° detection
- Easy set up with rotation lock
- Super multi dimension analysis logic
- IP55

Model	VXS-RAMi	VXS-RDAMI
Coverage	40 ft (12.0 m) 90° wide / 16 zones	
Power Input	3-9V DC lithium battery (included)	
Current Draw	19µA (standby) 74mA (max)	27µA (standby) 78mA (max)
Alarm Output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)	
Trouble Output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)	
Operating Temp.	-4 to 140°F (-20 to 60°C) -4 to 113°F (-20 to 45°C)	
Mounting Height	2.7ft to 4ft (0.8m to 1.2m)	



VXI-RAMi / VXI-RDAMI ALL ENVIRONMENT SPOT DETECTION PIR & DUAL TECH

- RAMi: PIR with anti-masking
- RDAMI: Dual tech microwave & PIR with anti-masking
- 40 x 40ft, 5 levels of distance adjustment
- Pre-configured masking shields included
- Super multi dimension analysis logic
- IP55

Model	VXI-RAMi	VXI-RDAMI
Coverage	40 ft (12.0 m) wide / 16 zones 5 Levels: 40 ft. - 8.2 ft. (12 - 2.5 m)	
Power Input	3-9V DC lithium battery (included)	
Current Draw	19µA (standby) 74mA (max)	27µA (standby) 78mA (max)
Alarm Output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)	
Trouble Output	N.C./N.O. Selectable-Solid State Switch 10 V DC 0.01 A(max.)	
Operating Temp.	-4 to 140°F (-20 to 60°C) -4 to 113°F (-20 to 45°C)	
Mounting Height	2.7ft to 4ft (0.8m to 1.2m)	



WXI-RAMi ALL ENVIRONMENT 180° PANORAMIC WIDE ANGLE PIR

- 180° wide angle detection
- Adjustable 8 to 40ft detection range
- Individual left / right alarm output, sensitivity setting
- Super multi dimension analysis logic
- Size analysis function
- Self learning IR digital anti-masking
- IP55

Model	WXI-RAMi
Coverage	8ft to 40ft adjustable
Power Input	3 to 3.6V DC lithium batteries
Current Draw	25uA standby 74 max. at 3V DC, except walk test
Alarm Output	Solid-state switch, 10V DC 0.01 A max. Individual, right/left or general, N.O. or N.C. selectable
Tamper Output	Shared with trouble output
Operating Temp.	-22°F to 140°F (-30°C to 60°C), except batteries
Mounting Height	2'7" to 4' (0.8 to 1.2m)



HX-40RAMi / HX-80NRAMi ALL ENVIRONMENT HIGH MOUNT DUAL PIR

- 40RAMi: 40 x 50ft detection range with anti-masking
- 80NRAMi: 80 x 6ft detection range with anti-masking
- Mounting height 7 to 10ft
- Intelligent 'AND' logic
- Double conductive shielding
- Advanced temperature compensation logic
- Summer night compensation & vegetation sway analysis
- IP55

Model	HX-40RAMi, HX-80NRAMi
Coverage	HX-40RAMi: 40ft x 50ft, 85° wide (12m x 15m) HX-80NRAMi: 80ft x 6.7ft narrow (24m x 2m)
Power Input	3-9V DC lithium battery (included)
Current Draw	39uA(Standby) / 74mA(Walktest, LED on)
Alarm Output	Form C Solid state switch: 10V DC 0.01A
Tamper Output	Form C. 28V DC, 0.1A max.
Operating Temp.	-4°F to 140°F (-20°C to 60°C)
Mounting Height	8.3ft to 10ft (2.5m - 3.0m)



REDWALL® SIP-3020WFi / SIP-4010WFi / SIP-404WFi

ALL ENVIRONMENT MID TO LONG RANGE PIR FOR CCTV ACTIVATION

- Low power consumption, low current draw
- Independent N.C. & N.O. alarm output
- Independent sensitivity selector for near / far
- Suited for remote / local video monitoring applications
- Anti-rotation / anti-masking function
- Advanced detection algorithm, detection range selector
- IP55 chassis, IP65 main unit



Model	SIP-3020WFi	SIP-4010WFi	SIP-404WFi
Coverage	100ft x 65ft (30m x 20m)	130ft x 33ft (40m x 10m)	130ft x 13ft (40m x 4m)
Power Input	3.6V, 13.0Ah LSH20 lithium battery (included)		
Current Draw	49uA (standby) 75mA max (operating, LED on)		
Alarm Output	N.C. 10V DC, 0.01A max. N.C. 10V DC, 0.01A max.		
Trouble Output	N.C. 10V DC, 0.01A max.		
Sensitivity Selector	Far: SH/H/M/L Near: SH/H/M/L		
Operating Temp.	-13 to 140°F (-25 to 60°C)		
Mounting Height	7.6ft to 13ft (2.3m to 4m)		
Recommended Accessories	AWT-3: Walk Tester for accurate installation AVF-1: View Finder for proper installation SIP-MINIHOOD: Sun and Snow Shield		



SL-100TNri / SL-200TNri

DUAL BEAM ACTIVE INFRARED PHOTOELECTRIC DETECTOR

- 100TNri: 100ft detection range, 5 year battery life
- 200TNri: 200ft detection range, 5 year battery life
- Dual beam detection
- IR communication for low battery signal
- IP65

Model	SL-100TNri	SL-200TNri
Coverage	100ft. (30m)	200ft. (60m)
Power Source	3.6 to 3.9V DC D size lithium batteries. Each transmitter & receiver: 2 units	
Battery Life	5 Years	5 Years
Current Draw	Total: approx 500 uA Transmitter: approx 200 uA Receiver: approx 300 uA	Total: approx 600 uA Transmitter: approx 300 uA Receiver: approx 300 uA
Alarm Output	Form C-Solid State Switch : 3.9VDC, 0.01A	
Operating Temp.	-4 to 140°F (-20 to 60°C)	



AX-100TFri / AX-200TFri

DUAL BEAM ACTIVE INFRARED PHOTOELECTRIC DETECTOR (ADVANCED)

- 100TFri: 100ft detection range
- 200TFri: 200ft detection range
- Dual beam detection, 4ch selectable beam frequency
- D cell lithium batteries included, 3-5 year battery life
- A.G.C. (automatic gain control)
- IP55



Model	AX-100TFri	AX-200TFri
Coverage	100ft. (30m)	200ft. (60m)
Beam Freq.	4 Channel	
Power Input	3.6V, 13.0Ah LSH20 lithium battery (4 included)	
Battery Life	5 Years	3 Years
Current Draw	620uA [T:300uA R:320uA]	810uA [T:490uA R:320uA]
Alarm Output	Form C-Solid State Switch : 3.6VDC, 0.01A	
Optional Heating Unit	HU-3, Local power required	
Operating Temp.	-4 to 140°F (-20 to 60°C)	
Mounting Options	Wall, Pole, AX-TW Series Enclosures	



SL-350QFri QUAD BEAM ACTIVE INFRARED PHOTOELECTRIC DETECTOR (PROFESSIONAL)

- 350ft detection range, quad beam detection
- 4ch selectable beam frequency
- D cell lithium batteries included, 4-8 year battery life
- Sniper viewfinder for easy alignment
- D.Q. circuit
- IP65



Model	SL-350QFri
Coverage	350ft. (100m)
Beam Freq.	4 Channel
Power Input	3.6V, 13.0Ah LSH20 lithium battery (4 included)
Battery Life	4 Years
Current Draw	745uA [T:420uA R:325uA]
Alarm Output	Form C-Solid State Switch : 3.6VDC, 0.01A
Optional Heating Unit	HU-3, Local power required
Operating Temp.	-4 to 140°F (-20 to 60°C)
Mounting Options	Wall, Pole, AX-TW Series Enclosures

Battery-Powered, Wireless Protection

iSERIES DETECTION FEATURES

Double-Layered Detection Patterns

Outdoor iSeries PIR detectors utilize Multiple Detection Pattern technology, where two double-layered detection patterns (upper and lower) have to be activated to generate an alarm condition. This reduces false alarms, particularly those caused by temperature changes, light reflection, and small animals.



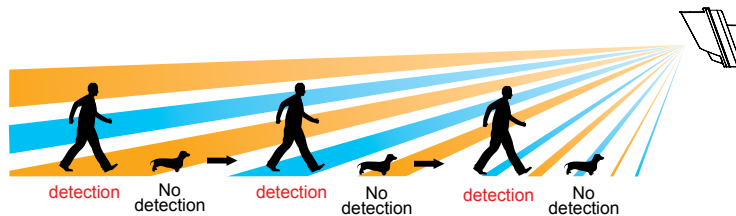
Size Judging Function

The size judging function virtually eliminates false alarms caused by small animals and other moving objects, such as vehicles.



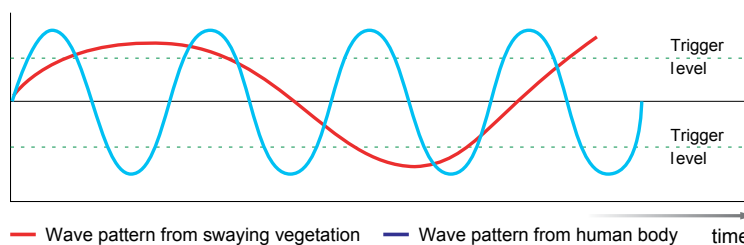
Intelligent 'AND' Logic

By utilizing originally developed pyro-elements, it creates a configuration area consisting of 94 high density detection zones. The AND detection pattern technology also requires both detection areas to be simultaneously activated in order to generate an alarm condition, making it more resistant to false alarms caused by small nuisance animals or pets.



Vegetation Sway Analysis Logic

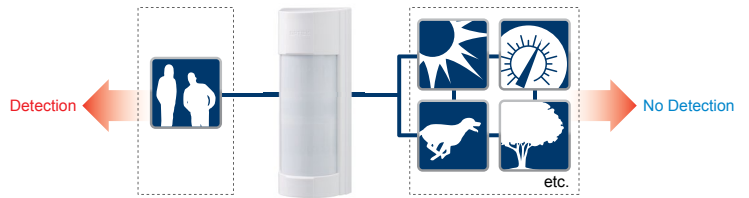
For the HX high mount series, wave changes are monitored at all times and will automatically cancel signals caused by swaying grass when it determines the pattern of these distinctive wave changes.





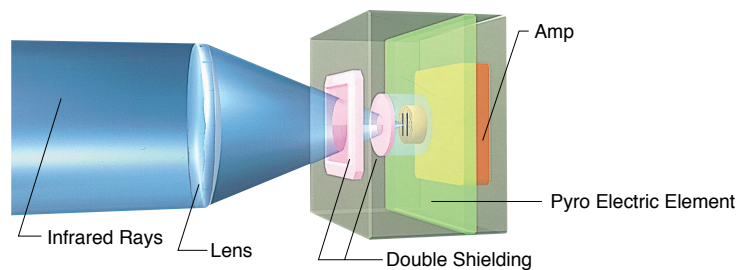
SMDA Logic (Super Multi-Dimensional Analysis)

The SMDA is a digitally enhanced signal recognition logic that improves immunity against various noise factors, such as climate changes and vegetation sways, to drastically reduce false alarm rates.



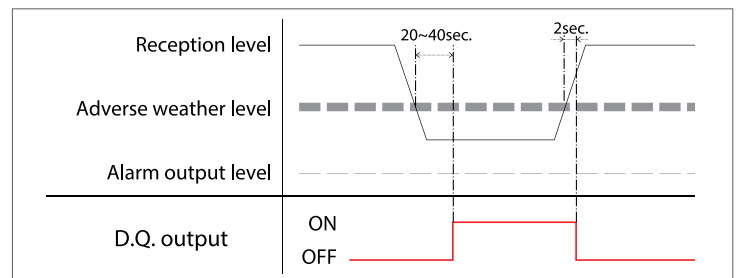
Double Conductive Shielding

By using our double conductive shielding, false alarm causing visible light disturbance (car headlights, sunlight) and RFI can be blocked.



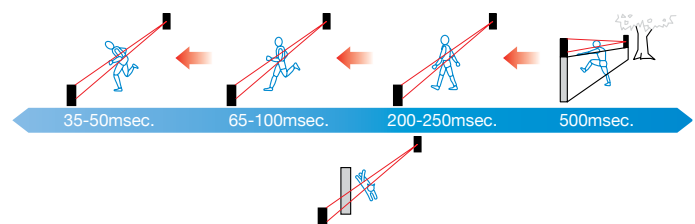
D.Q. Output (Environmental Disqualification)

The D.Q. output will send a trouble signal when the beam strength is below acceptable levels (due to harsh weather conditions), for more than 20-40 seconds.



Adjustable Beam Interruption Time

By using the beam interruption time potentiometer, it is possible to increase the time the beam must be broken in order to generate an alarm. This will reduce the chance of false alarms being caused by falling leaves, blowing debris, or animal movements within the protected area.





CASE STUDY

When a church in Georgia began feeling the effects of copper theft, the integrator consulted with the property's interior security and decided to once again turn to OPTEX for help. The church utilized both rooftop and ground level HVAC systems, with easy access to each. Because of labor and cost associated with wiring, along with the difficulty bringing power to the rooftops, the regional sales manager for OPTEX recommended the iSeries line of battery-powered, wireless PIRs.

The iSeries detectors offered spot and curtain protection for all HVAC units while also securing all access points to each. For future consideration, the addition of the wireless feature also allows the integrator to relocate and easily adjust the detectors based on changing security needs.

With this system in place, copper and other related thefts have been eliminated and the end user can now respond quickly before any damage is done.

Battery-Powered, Wireless Protection

TOTAL SECURITY SOLUTIONS

Rooftop / Copper Theft Protection



SIP-3020WFI
100' x 65' Outdoor PIR designed to activate and enhance CCTV systems / applications



inovonics
EN5040T Repeater
ACC650 Enclosure
(When mounting repeater outdoors)



BX-80Nri
80' x 3' Low mount, battery-powered, outdoor dual PIR detector



BXS-RAMI
Up to 80' total coverage (40' per side)
Outdoor quad-PIR boundary detector
Independently adjustable range & sensitivity



inovonics
Receivers:
EN4232MR
EN4216MR
EN4204R
Honeywell EN7290
Bosch ENKIT
Interlogix EN7286NX



VXS-RAMI / VXS-RDAMI
40' by 90° detection coverage
Wide angle outdoor PIR (RAMI) or dual tech (RDAMI)
With anti-masking



VXI-RDAMI
40' x 40' Low mount, battery-powered outdoor dual technology detector



AX-TW200M
6'6" Single Sided, Wall Mount Beam Enclosure

AX-TW200
6'6" Double Sided, Free Standing Beam Enclosure

AX-TW200
6'6" Double Sided, Free Standing Beam Enclosure

SL-350QFRI
iSeries Battery-Powered, Wirefree Photobeams

SL-350QFRI
iSeries Battery-Powered, Wirefree Photobeams

Easily Deployable Spot Detection



HX-40RAMI
40' x 50' High mount, battery-powered, outdoor dual PIR detector

CONTACT US

From residential to critical infrastructure, OPTEX has the right solution for any application & environment.

With indoor and outdoor detection options for every threat level, OPTEX provides you with flexibility and choice based on your perimeter security needs. Since its founding over 30 years ago, OPTEX has established a worldwide reputation for quality, innovation, and technical excellence. Our products will always represent an investment in performance, and long term satisfaction.

NOTES

COMMON iSERIES ACCESSORIES



UNIVERSAL WIRELESS RECEIVERS

EN4232MR
EN4216MR
EN4204R



PANEL SPECIFIC WIRELESS RECEIVERS

Honeywell EN7290
Bosch ENKIT
Interlogix EN7286NX



EN5040T REPEATER

High power repeater with transformer, intelligently amplifies transmission from any EchoStream series transmitter in an iSeries detector



ACC650 ENCLOSURE

General purpose, all-weather plastic enclosure used as an outdoor housing for Inovonics wireless repeaters



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iSERIES SPECIFICATION GUIDE



	EX-35Ri	CX-702Ri	FTN-RAMi	BXS-RAMi	BX-80NRi	VXS-RAMi	VXS-RDAMI	VXI-RAMi	VXI-RDAMI	WXI-RAMi
										
Detection Method	PIR	PIR	PIR	PIR	PIR	PIR	PIR/Microwave	PIR	PIR/Microwave	PIR
Coverage	35 x 35ft. 85° Wide or 55ft. x 5.5ft. Long	70 x 70ft. 85° Wide or 150ft. x 8ft. Long	16.5ft. x 3.3ft. or 6.7ft. x 3.3ft.	80ft (40ft each side) 2 zones each side 180° narrow	3ft x 80ft (40ft on each side)	40ft by 90°	40 x 50 ft.	40ft. x 40ft. Selectable 5 Levels 40 ft. - 8.2 ft.	40ft. x 40ft. Selectable 5 Levels 40 ft. - 8.2 ft.	180° wide 8 ft. - 40 ft.
Mounting Height	4ft - 8ft or 2ft - 4ft. Pet Alley	5ft. - 12ft.	2.7ft. - 4ft.	2.7ft. - 4ft.	2.7ft. - 4ft.	2.7ft. - 4ft.	2.7ft. - 4ft.	2.7ft. - 4ft.	2.7ft. - 4ft.	2.7ft. - 4ft.
Double-Layered Detection Patterns	—	—	✓	✓	✓	✓	✓	✓	✓	✓
Intelligent 'AND' Logic	—	—	—	✓	—	—	—	—	—	✓
Pet Tolerant	Birds & rodents	—	✓	✓	✓	✓	✓	✓	✓	✓
SMDA Logic	—	—	✓	✓	—	—	—	✓	✓	✓
Immunity Switch	—	—	—	—	—	—	STD/Immunity (microwave)	—	STD/Immunity (microwave)	—
Double Conductive Shielding	—	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sensitivity Adjustment	—	—	STD/LOW	H / M / L	H / M / L	H / M / L	H / M / L	H / M / L	H / M / L	H / M / L
Temperature Compensation Logic	—	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pulse Count	2 / 4	2 / 4	2	2	2	2	2	2	2	2
Power Supply	3-9 VDC: 3V Lithium included	3-9 VDC: 3V Lithium included	3-9 VDC: 3V Lithium included	3-9 VDC: 3V Lithium included	3-9 VDC: 3V Lithium included	3-9 VDC: 3V Lithium included	3-9 VDC: 3V Lithium included	9.5 - 18 VDC	9.5 - 18 VDC	3-3.6 VDC: 3V Lithium included
Current Consumption	25 µA (standby) 80 mA (test, LED on)	25 µA (standby) 80 mA (test, LED on)	17 µA (standby) 73 mA (test, LED on)	25 µA (standby) 78 mA (max.)	24 µA (standby) 73 mA (max.)	19 µA (standby) 74 mA (max.)	27 µA (standby) 78 mA (max.)	19 µA (standby) 74 mA (max.)	27 µA (standby) 78 mA (max.)	25 µA (standby) 74 mA (max.)
Alarm Output	Form C solid state 10V DC 0.01A max.	Form C solid state 10V DC 0.01A max.	Select-Solid N.C./N.O. State Switch 10 VDC 0.01A (max)	Form C solid state 10V DC 0.01A max.	Form C solid state 10V DC 0.01A max.	Select-Solid N.C./N.O. State Switch 10 VDC 0.01A (max)	Select-Solid N.C./N.O. State Switch 10 VDC 0.01A (max)	Select-Solid N.C./N.O. State Switch 10 VDC 0.01A (max)	Select-Solid N.C./N.O. State Switch 10 VDC 0.01A (max)	Select-Solid N.C./N.O. State Switch 10 VDC 0.01A (max)
Tamper Output	Form C	Form C	N.C.	Form C	Form C	N.C.	N.C.	N.C.	N.C.	N.C.
Internal Protection	—	—	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Operating Temperature	-4 to +122 °F	-4 to +122 °F	-4 to +140°F	-22 to +140°F	-4 to +122°F	-4 to +140°F	-4 to +113°F	-4 to +140°F	-4 to +113°F	-22 to +140°F
Environmental Humidity	95% max.	95% max.	95% max.	95% max.	95% max.	95% max.	95% max.	95% max.	95% max.	95% max.
Dimensions (H x W x D in)	4.5 x 2.8 x 3	5.5 x 3.9 x 2.7	6.1 x 2.8 x 1.7	7.8 x 3.6 x 3.9	9.3 x 2.2 x 5	7.85 x 3.21 x 4.3	7.85 x 3.21 x 4.3	7.8 x 3.7 x 11.25	7.8 x 3.7 x 11.25	7.9 x 3.2 x 4.7

HX-40RAMI HX-80NRAMI SIP-3020WFI / SIP-4010WFI / SIP-404WFI			
			
Detection Method	PIR	PIR	PIR
Coverage	40 x 50ft	80 x 6.5ft narrow	100 x 65ft / 130 x 33ft / 130 x 13ft
Mounting Height	8 - 10ft	8 - 10ft	7.6 - 13ft
Double-Layered Detection Patterns	—	—	—
Intelligent 'AND' Logic	✓	✓	—
Pet Tolerant	✓	✓	—
SMIDA Logic	—	—	—
Immunity Switch	STD/Immunity	STD/Immunity	—
Double Conductive Shielding	✓	✓	✓
Sensitivity Adjustment	H / M / L	H / M / L	Far: SH / H / M / L Near: SH / H / M / L
Temperature Compensation Logic	✓	✓	—
Pulse Count	2	2	—
Power Supply	3-7 VDC; 3V Lithium included X2	3-9 VDC; 3V Lithium included X2	3.6V, 13.0Ah LSH20 lithium battery (included)
Current Consumption	39 μ A (standby) 74 mA (max)	39 μ A (standby) 74 mA (max)	49 μ A (standby) 75 mA (max)
Alarm Output	Form C solid state 10V DC 0.01A max.	Form C solid state 10V DC 0.01A max.	N.C. 10VDC, 0.01A max N.O. 10VDC, 0.01A max
Tamper Output	Form C	Form C	N.C. 10VDC, 0.01A max
International Protection	IP55	IP55	Main Unit: IP65 Chassis: IP55
Operating Temperature	-4 to +140 °F	-4 to +140 °F	-13 to +140°F
Environmental Humidity	95% max.	95% max.	95% max.
Dimensions (H x W x D in)	8.07 x 3.9 x 10.5	7.8 x 3.7 x 11.25	9 x 4 x 10.5

SL-350QFRI SL-100TNRI SL-200TNRI AX-100TFRI AX-200TFRI					
					
Detection Method	AIR	AIR	AIR	AIR	AIR
Outdoor detection range	350ft	100ft	200ft	100ft	200ft
Indoor detection range	700ft	200f	400f	200f	400f
Beam	Quad	Twin	Twin	Twin	Twin
Beam blocking ratio	99%	99%	99%	99%	99%
4ch. Selectable freq.	✓	✓	✓	✓	✓
Alignment Angle	+/- 90 ° H, +/- 5 ° V	+/- 90 ° H, +/- 5 ° V	+/- 90 ° H, +/- 5 ° V	+/- 90 ° H, +/- 5 ° V	+/- 90 ° H, +/- 5 ° V
LED Indicator	4step LED indicator	4step LED indicator	4step LED indicator	4step LED indicator	4step LED indicator
Monitor Jack for Alignment	✓	✓	✓	✓	✓
Automatic Gain Control	No	No	No	No	No
Lightening Protection	Yes, Wirefree	Yes, Wirefree	Yes, Wirefree	Yes, Wirefree	Yes, Wirefree
Environment DQ	✓	✓	✓	✓	✓
Alarm Output	Form C	Form C	Form C	Form C	Form C
Tamper	✓	✓	✓	✓	✓
Power Supply	3.6V 13.0Ah LSH20 lithium batteries (4 included)	3.6V 13.0Ah LSH20 lithium batteries (4 included)	3.6V 13.0Ah LSH20 lithium batteries (4 included)	3.6V 13.0Ah LSH20 lithium batteries (4 included)	3.6V 13.0Ah LSH20 lithium batteries (4 included)
Current Draw (Peak)	745 μ A	500 μ A	600 μ A	620 μ A	810 μ A
Anti-Frost Design	✓	✓	✓	✓	✓
Optional Heating Unit	HU-3 Requires local power	HU-3 Requires local power	HU-3 Requires local power	HU-3 Requires local power	HU-3 Requires local power
International Protection	IP65	IP55	IP55	IP55	IP55
Operating Temperature	-4 to +140°F	-4 to +140 °F	-4 to +140°F	-4 to +140 °F	-4 to +140°F
Environmental Humidity	95% max.	95% max.	95% max.	95% max.	95% max.
Dimensions (H x W x D in)	17.9 x 3.3 x 5.4	11.6 x 2.7 x 4.6	11.6 x 2.7 x 4.6	8.5 x 3.5 x 6.4	8.5 x 3.5 x 6.4