



 **OPTEX**
iSeries
wireless

OPTEX, INC.
(USA)

13661 Benson Ave.
Bldg. C. Chino CA 91710
U.S.A.
Toll Free: 1-800-966-7839
Tel : 1-909-993-5770
Fax: 1-909-628-5560
www.optexamerica.com
www.optexlatinoamerica.com

Sales: 800-966-7839 x147
Export: 800-966-7839 x113
Tech: 800-556-7839



FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- 100ft and 200ft detection ranges
- Long battery life (Batteries Included)
 - AX-100TFR / AX-100TFRi: approx. 5 years
 - AX-200TFR / AX-200TFRi: approx. 3 years(trans)
 - AX-200TFR / AX-200TFRi: approx. 5 years(receiver)
- Easy battery replacement
- Triple tamper functions
- Low battery output and LED indication
- Intermittent output function

OPTIONS

- MP-4: Main unit mounting bracket set (for tower mounting)



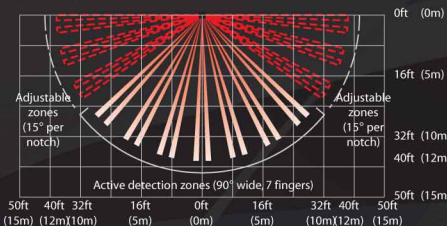
Model	AX-100TFRi	AX-200TFRi
Range	100ft (30m)	200ft (60m)
Max. arrival distance	265m	530m
Detection method	Infrared beam interruption detection	
Beam freq. selection	4 channel	
Interruption period	Variable between 50, 100, 250, 500msec	
Power source	3.6V 13.0Ah : (4) LSH20 lithium batteries manufactured by SAFT (included)	
Current draw	810 μA T:490 μA + R:320 μA (at 25°C, 3.6VDC) 620 μA T:300 μA + R:320 μA (at 25°C, 3.6VDC)	
Battery life	5 yrs	Trans. 3 yrs Rec. 5 yrs
Alarm output	Form C-Solid State Switch : 3.6VDC, 0.01A	
Alarm period	2 sec (±1) nominal	
D.Q. output	Form A/B-Solid State Switch : 3.6VDC, 0.01A	
Low battery output	Form A/B-Solid State Switch: 3.6VDC, 0.01A	
Tamper output for Front cover	Form C: 3.6 VDC, 0.01 A activates when cover removed. (Receiver only)	
Tamper output for Back box	Form C: 3.6 VDC, 0.01 A: activates when either back box/chassis is removed	
Alarm Indicator (Receiver)	(1) Light on - IR Beam not received. (2) Flickering - IR Beams not received sufficiently. (3) Light off - IR Beams received.	
Power (Transmitter)	Power ON : ON, Power OFF : OFF	
Low battery	Voltage Reduction : flicker	
Operating temp	-4°F to 140°F (-20°C to +60°C)	
Envir. humidity	95%(Max.)	
Alignment angle	± 90° Horizontal, ± 5° Vertical	
Mounting	Indoor/Outdoor, Wall/Pole/Tower mounting (Optional main unit mounting brackets are required, when the units mount in the tower.)	
Weight	56.5oz (1600g) (transmitter + receiver)	
Int. protection	IP55	



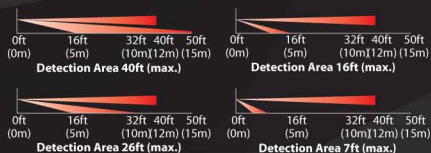
FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Dual PIR's for extremely stable outdoor detection
- Battery saving circuit
- Form C alarm output and tamper output
- Low current draw
- Limited detection range function
- Size judging function
- Sensitivity selection switch
- Temperature compensation

TOP VIEW



SIDE VIEW



When only the lower zone detects a moving object, the unit is not activated.

When only the upper zone detects a moving object, the unit is not activated.

When both the upper & lower zones detect a moving object, the unit is activated.



Model	VX-402Ri
Coverage	40ft x 40ft (12m) 90° wide
Detection zones	14 zones
Sensitivity	35°F at 2ft/s
Detectable speed	1ft -5ft/s
Power supply	3 - 9 VDC lithium or alkaline battery
Current consumption	3mA (walktest, LED on) 10μA (standby)
Alarm period	Approx. 2.5 sec.
Alarm output	Form C - solid state switch : 10V DC0.01A
Battery saving time	Approx. 120 sec. or 5 sec.
Tamper switch	Form C activates when cover is removed
Pulse Count	Approx. 20 sec. 2 or 4 / Test (1pulse)
Warm-up period	Approx. 2 min.
LED indicator	Disable during normal operation Enable during walk test
Operating temperature	-4°F to 122°F (-20°C to +50°C)
Environmental humidity	95% max.
RF interference	No Alarm 30V/m
Mounting height	2.6ft - 4ft (0.8m - 1.2m)
Mounting	Wall, pole
Weight	1lb 1oz (480g)
Dimensions (H x W x D)	7.8in x 3.15in x 4.25in
Weatherproof	IP54



HX-40RAMi



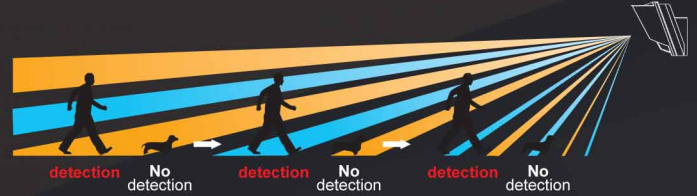
HX-80NRAMi

FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Easy short and long range masking with built in flaps and plates (HX-80RAMi)
- Mounting height 8.3ft - 10ft
- Digital anti-masking function
- Low current draw
- Form C alarm output and tamper output
- Selectable NC/NO trouble output
- 180° angle adjustable bracket



Model	HX-40RAMi	HX-80NRAMi
Detection method	Passive infrared	Passive infrared
PIR Coverage	40' x 50' (12 m) 85° wide / 94 zones	80' x 67" (24m x 2m) narrow / 20 zones
Distance limit	13', 18', 30', 40' (4m, 5.5m, 9m, 12m)	22', 33', 42', 59' (6.5m, 10m, 13m, 18m)
Detectable speed	1 - 5ft/s	
Sensitivity	3.6°F at 5ft/s	
Power input	3 - 7.2VDC Lithium Battery (CR123A x 3, CR2 x 3, 1/2AA x 3, 1-2AA x 6)	
Current draw	30 μA (standby) / 4mA (max) at 3VDC	
Alarm period	2.0±1 sec	
Warm-up period	Approx. 90 sec(LED blinks)	
Alarm output	Form C - Solid State - 10VDC 0.01A max	
Trouble output	N.C./N.O. Selectable - Solid State - 10VDC 0.01A	
Tamper output	Form C, 28VDC, 0.1A max. (changes when cover is removed)	
LED indicator	Disable : During normal operation. Enable : During WALK TEST or LED SW on. Red : Warm-up, Alarm, Trouble, Low battery	
RF Interference	No alarm 10 V/m	
Operating temperature	-4 - +140°F (-20 - +60°C)	
Environment humidity	95% max	
Weatherproof	IP55	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	8.3 - 10 ft. (2.5 - 3.0 m)	
Bracket adjust angle	Vertical: ± 20° Horizontal: ± 95°	
Weight	21.2 oz (600 g)	27.5 oz (780 g)
Accessories	Bracket, Hood, Area masking seal, Screw kit (3 x 10-2, 4 x 20-4), Velcro tape x 2, Alarm cable, Battery lead x 2, Dummy battery kit	Bracket, Screw (4 x 20 mm) x 4, Velcro tape x 2, Alarm cable, Battery lead x 2, Dummy battery kit

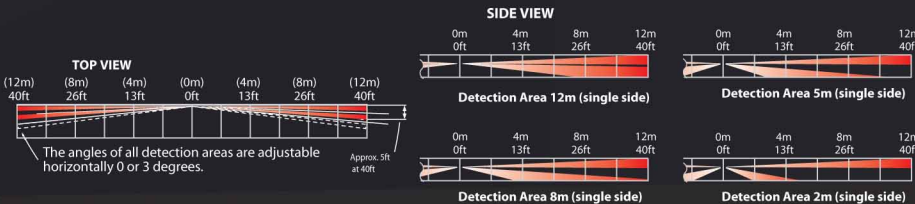


FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Battery saving circuit
- Form C alarm output and tamper output
- Low current draw
- Limited detection range function
- Size judging function to avoid false alarms
- Variable detection range to 24m (12m on each side)

OPTIONS

- BA-1W: Multi angle wall mount bracket



Model	BX-80NRi
Coverage	80ft x 3ft (40ft on each side)
Detection zones	4 zones (2 zones on each side)
Sensitivity	2.0°C at 0.6m/sec.
Detectable speed	0.3m - 1.5m/s
Power supply	3 - 9VDC lithium or alkaline Battery
Current consumption	3mA(Walktest, LED on) 15uA(Standby)
Alarm period	2 ± 1 sec.
Alarm output	Form C-Solid state switch: 10V DC 0.01A
Battery saving time	Approx. 120 sec. or 5 sec.
Tamper with	Form C activates when cover is removed
Warm-up period	Approx. 2 min.
LED indicator	Disable during normal operation Enable during walktest or LED switch on
Operating temperature	-4°F to 122°F (-20°C to +50°C)
Environmental humidity	95% max.
RF interference	No Alarm 20V/m
Mounting height	2.6ft to 4ft (0.8m - 1.2m)
Mounting	Wall
Weight	1lb 2oz (520g)
Dimensions (H x W x D)	9.16 x 2.16in x 5.04in
Weatherproof	IP55

When only the lower zone detects a moving object, the unit is not activated.

When only the upper zone detects a moving object, the unit is not activated.

When both the upper & lower zones detect a moving object, the unit is activated.





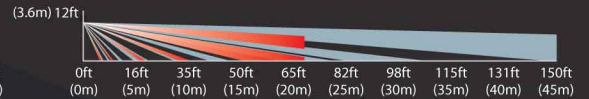
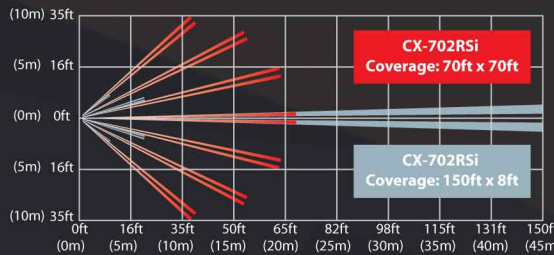
FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Patented multi-focus technology
- Double conductive shielding
- Temperature compensation
- Dual purpose optics: wide-angle or long-range
- 3-step lens angle adjustment

OPTIONS

- CA-1W: Multi-angle wall mounting bracket
- CA-2C: Multi-angle ceiling mounting bracket
- BA-70: Back box for wireless transmitter

Model	CX-702RSi
Coverage	WIDE : 70ft x 70ft (21m x 21m) 85° wide LONG : 150ft x 8ft (45m x 2.4m)
Detection zones	68 zones
Sensitivity	1.6°C at 0.6m/sec. at 2.4m
Detectable speed	1 - 5ft/sec (0.3 - 1.5m/sec.)
Power supply	3 - 9V DC lithium battery
Current consumption	5µA (standby) 10mA (walktest, LED on)
Alarm period	Approx. 2.5 sec.
Alarm output	Form C 10V DC 0.01A max.
Alarm interval	Succeeding signals are not output even though detection occurs within 2 min. after the first alarm.
Tamper switch	Form C 28V DC 0.1A max.
Pulse count	Approx. 20 sec. 2 or 4
Warm-up period	Approx. 90 sec.
LED indicator	Alarm condition
Operating temperature	-14°F to +122°C
Environmental humidity	95% max.
RF interference	No Alarm 20V/m
Mounting height	5ft - 12ft (1.5m - 3.6m)
Weight	7oz (200g)
Dimensions (H x W x D)	5.5in x 3.94in x 2.7in
Long range pattern with dual purpose lens	
Coverage	150ft x 8ft long range (45m x 2.4m)
Detection zones	22 zones



COMPACT
OUTDOOR
DETECTOR

fit
series

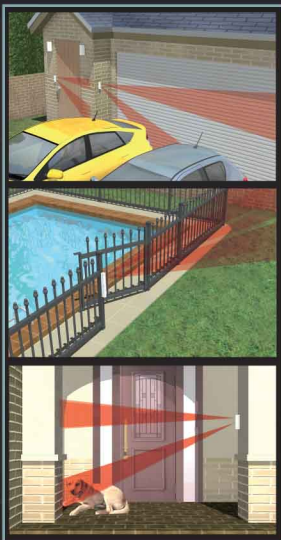
FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Complete battery operation
- Digital Anti-masking (RAM only)
- 16.4ft or 6.5ft narrow range
- 190° horizontal flexibility
- Perfect pet immunity
- Super Multi Dimension Analysis Logic
- Double conductive shielding
- Intelligent 'AND' logic

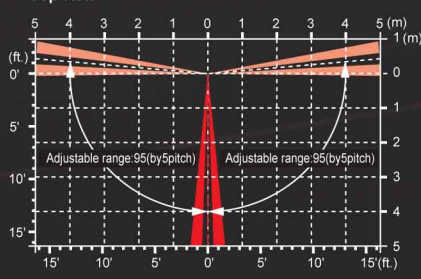
OPTIONS

- Wall tamper (WRS-03)

Model	FTN-Ri	FTN-RAMi
Detection method	Passive infrared	
PIR coverage	16'5" x 3'3" (5x1m)	
Detection length limit	6'7", 16'5" (2 m, 5 m)	
Detectable speed	1' - 4'11"/s (0.3 - 1.5 m/s)	
Sensitivity	3.6F (at 2'/s) (2.0C (at 0.6 m/s))	
Operation voltage	2.5 - 10 V DC	
Power input	3 - 9 V DC (Lithium or Alkaline Battery)	
Current draw	9µA (at stand-by) / 3mA (max.) (at 3 V DC)	10µA (at stand-by) / 3mA (max.) (at 3 V DC)
Alarm period	2.0 1.0sec.	
Warm-up period	Approx. 120 sec. (LED blinks)	
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.)	
LED indicator	Enable: During DIP switch 1 (WALK TEST MODE) or DIP switch 4 (LED) ON Disable: During normal operation Light/Blink: Warm-up, alarm, masking detection (FTN-RAM only)	
Operation temperature	-4 - +140F (-20 - +60C)	
Environment humidity	95% max.	
Weatherproof	IP55	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	2'7" - 3'11" (0.8 - 1.2 m)	
Weight	6.7 oz. (190 g)	
Accessories	Connector for POWER and ALARM, connector for TROUBLE, plate nutx2, screw (M3x10 mm)x2, screw (3x20 mm)x4, sponge for transmitter	



Top view



Both upper and lower zones need to be activated simultaneously in order for an alarm event to occur, drastically reducing false alarms.

Side view

