

WIDE ANGLE OUTDOOR DETECTOR

QX Infinity series

WIRED MODELS

QXI-ST: 12m (40ft), 120 degrees

QXI-DT*: as QXI-ST with anti-blocking and dual-technology

BATTERY-OPERATED MODELS

QXI-R: 12m (40ft), 120 degrees

QXI-RDT: as QXI-R with dual technology

*MW frequencies [10.525 GHz (X5), 10.587 GHz (X8), 9.425 GHz (X9)]

The QX Infinity (QXI) series is a range of outdoor PIRs and dual-technology sensors providing 120° wide and 12m (40ft) detection area. Sleek and compact, the QXI sensors are small and well suited to any residential or commercial building as they provide reliable, animal tolerant intrusion and motion detection.



Reliable outdoor detection sensor

Super Multidimensional Analysis (SMDA) logic

All QXI models are equipped with a digitally enhanced signal recognition logic called SMDA. It analyses the detection pattern and changes to the environment such as the weather and vegetation sway to filter out noise and the cause of nuisance alarms.

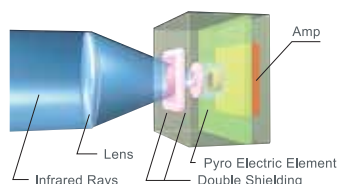


QUAD Technology combined with AND logic

The QXI features two layers of detections (QUAD pyro elements) and operates with AND logic. In high mount applications, this provides a good tolerance to small animals, contributing to reliable outdoor detection.

Double conductive shielding

Another key feature of the QXI series is the Double Conductive Shielding which filters out visible light and RFI disturbance.



Dual-technology models

For more challenging environments, the QXI-DT (wired model) and the QXI-RDT (wireless model), combine PIR and Microwave technologies to confirm the alarm. They feature the OPTEX Tough microwave module, specifically developed to prevent corrosion from condensation and humidity.

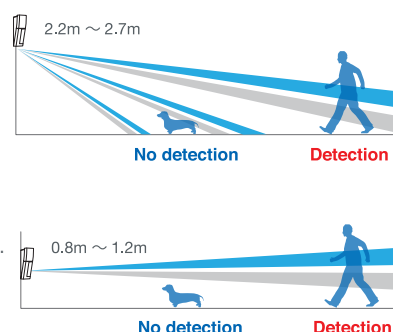
Anti-Blocking

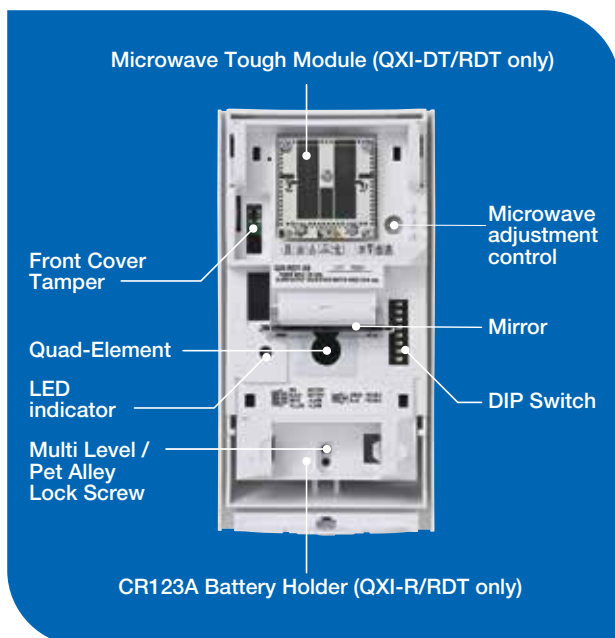
The QXI-DT model offers an anti-blocking function in high mount utilising the microwave module to detect attempts to mask the sensor.



Selectable mounting height and detection pattern

When mounted between 2.2 and 2.7m the sensor creates a multi-level volumetric detection pattern, allowing it to ignore small animals. In environments with larger animals, the sensor can be mounted between 0.8 and 1.2m height, to provide a pet alley.





Easy installation and maintenance

The screwless design makes the opening and closing of the front cover very easy with a flat head screwdriver.



The battery-operated models (QXI-RT and RDT) feature easy access to the CR123 battery located at the front of the sensor which makes changing the battery easier.



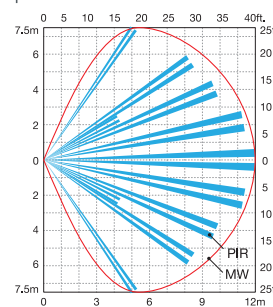
Specifications

Model	QXI-ST	QXI-DT
Detection method	Passive infrared	Passive infrared & Microwave
PIR coverage	12.0 m (40') 120°wide	
PIR zones	Multi level: 40 zones Pet alley: 18 zones	
Detectable speed	0.3 to 2.0 m/s (1' to 6'7"/s)	
Sensitivity	2.0°C (3.6°F) at 0.6 m/s	
Pet alley	Remove lower area detection to avoid small animals.	
Power input	9.5 to 16 V DC	
Current draw	20 mA max. at 12 V DC	30 mA max. at 12 V DC
Alarm period	2.0 ± 0.5s	
Warm-up period	Approx. 60 s (LED blinks)	
Alarm output	N.C./N.O. switchable, 28 V DC 0.1 A max.	
Trouble output	N.C. 28 V DC 0.1 A max.	
Tamper output	N.C. 28 V DC 0.1 A max. Open when the cover is opened	
LED indicator	[1]Warm-up [2]Alarm [3]Walk test end	[1]Warm-up [2]Alarm [3]Walk test end [4]Blocking detection
Operation temperature	-40°C to +60°C (-40°F to +140°F)	-40°C to +45°C (-40°F to +113°F)
Environment humidity	95% max.	
Internation protection	IP 54	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	Multi level: 2.2 to 2.7 m (7'3" to 8'11") Pet alley: 0.8 to 1.2 m (2'7" to 4')	
Weight	180 g (6.35 oz)	195 g (6.88 oz)
Accessories (included)	[1]Mounting screw (4 x 12 mm) x 2 [2]Lock screw (3 x 12 mm) x 1 [3]Area masking strips	

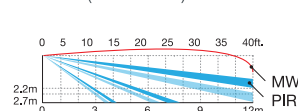
Specifications and designs are subject to change without prior notice.

Coverage

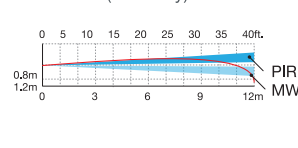
Top View



Side View (Multi Level)

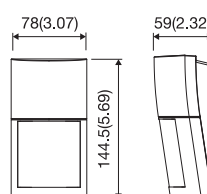


Side View (Pet Alley)

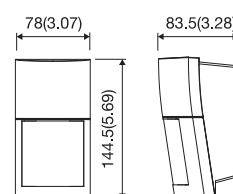


Dimensions

QXI-ST/DT



QXI-R/RDT



Unit: mm (inch)

Options

Bracket for Ceiling Mount

CA-2C(W)



Bracket for Wall Mount

CA-1W(W)



Additional Features

- UV-resistant ASA body
- Shared battery usage (QXI-R/QXI-RDT)
(A wireless transmitter using CR123 battery can be powered by the sensor)

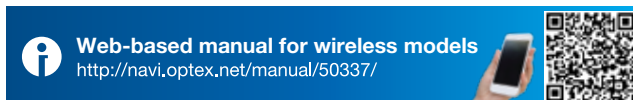
Model	QXI-R	QXI-RDT
Detection method	Passive infrared	Passive infrared & Microwave
PIR coverage	12.0 m (40') 120°wide	
PIR zones	Multi level: 40 zones Pet alley: 18 zones	
Detectable speed	0.3 to 2.0 m/s (1' to 6'7"/s)	
Sensitivity	2.0°C (3.6°F) at 0.6 m/s	
Pet alley	Remove lower area detection to avoid small animals.	
Power source	CR123A (3 V DC) *Not included.	
Current draw	9 µA stand-by 11 mA max. at 3 V DC	16 µA stand-by 11 mA max. at 3 V DC
Alarm period	2.0 ± 0.5s	
Warm-up period	Approx. 60 s (LED blinks)	
Alarm output	N.C./N.O. switchable solidstate switch, 3 V DC 0.01 A max.	
Trouble output (with tamper)	N.C./N.O. switchable solidstate switch, 3 V DC 0.01 A max.	
LED indicator	[1]Warm-up [2]Alarm [3]Walk test end	
Operation temperature	-40°C to +60°C (-40°F to +140°F)	-40°C to +45°C (-40°F to +113°F)
Environment humidity	95% max.	
Internation protection	IP 54	
Mounting	Wall (Outdoor, Indoor)	
Mounting height	Multi level: 2.2 to 2.7 m (7'3" to 8'11") Pet alley: 0.8 to 1.2 m (2'7" to 4')	
Weight	215 g (7.58 oz)	230 g (8.11 oz)
Accessories (included)	[1]Dummy battery and connector for ALARM [2]Connector for TROUBLE [3]Mounting screw (4 x 12 mm) x 3 [4]Lock screw (3 x 12 mm) x 1 [5]Area masking strips	



Web-based manual for wired models
<http://navi.optex.net/manual/50333/>



Web-based manual for wireless models
<http://navi.optex.net/manual/50337/>



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