

It's about time to move to WISER Detectors!

# iWISE™ PET/DT PET

## Pet Immune PIR and Dual Technology Detectors

The **iWISE PET** and **iWISE DT PET** provide full pet immunity with no loss of catch performance. iWISE PET and DT PET models easily distinguish between intruders and pets, allowing complete pet freedom of movement without false alarms.

The iWISE PET series is ideal for any type of installation where pets are concerned thanks to Rokonet's Variable Pet Thresholding (VPT) Technology.

**Move to the iWISE series of cutting edge professional detectors, the wisest choice for your customer's peace of mind and your bottom line!**

- Full pet immunity up to 45 kg (100 lb) [36kg (80lb) for the PIR model]
- Superior catch performance
- Active creep zone to ensure pet immunity without loss of intruder detection
- Unique VPT algorithm
- Patented true temperature compensation
- Unique lens design for improved pet immunity
- Two lenses supplied for different installation heights



iWISE DT PET



iWISE PET



**R** **KONET**  
R I S C O G R O U P

Intelligence in the Service of Security

## iWISE PET/DT PET Unique VPT Algorithm & Custom Lens

Rokonet's unique VPT algorithm (Variable Pet Thresholding) and a custom designed lens for the iWISE Pet detectors readily distinguish between intruders and pets while assuring superior catch performance.

### Lens Design

The iWISE PET lens is designed to reduce signals from pets while assuring catch performance of intruders. The lens' detection levels are shown in Fig. 1 (below). The upper level is much more sensitive than the lower ones, enhancing signals from upright intruders. The lens design assures that the signal level from a pet will be lower than the signal level of an intruder, for a specific crossing frequency of the detection fingers.

In addition, the "active" creep zone ensures catch performance below the detector without compromising pet immunity.

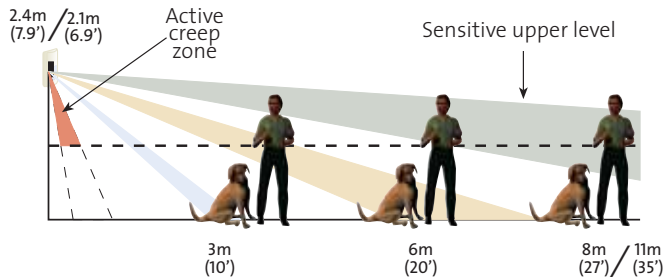
### VPT Algorithm

Due to the physics of the PIR sensor and optics, the PIR signal level depends on the crossing frequency of the detection fingers, see Fig. 2 (on the right).

For example, an intruder with a high crossing frequency (B) may have a lower signal level than a pet with a lower crossing frequency (A). Using a constant threshold may detect pets and ignore humans!

The VPT algorithm solves this by measuring the crossing frequency and selecting the correct threshold level for alarm accordingly, which is set above the pet signal and below the intruder level for each frequency. This is how VPT assures detection of intruders while ignoring pets.

Fig 1 - Lens coverage, side view

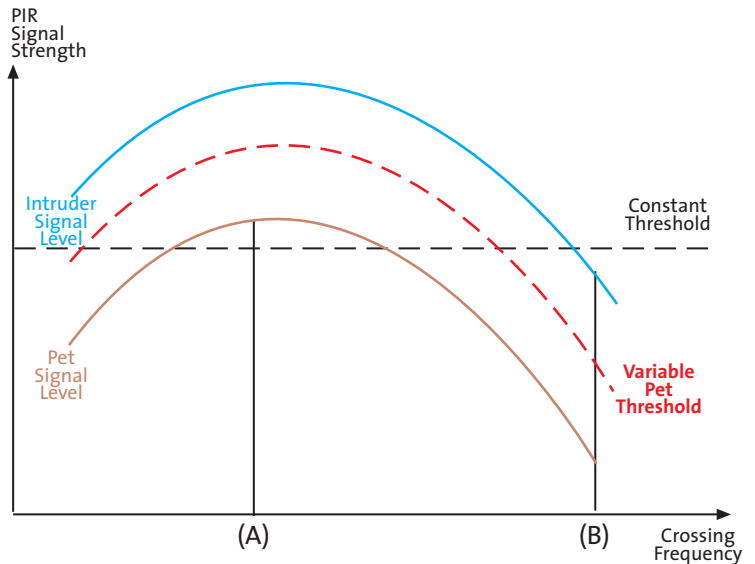


Complies with EN 50131-1, Grade 2, Class II



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Fig 2 – Pet and Intruder signal levels, VPT



### Technical Information

Specifications	iWISE DT PET		iWISE PET	
	8m lens	11m lens	8m lens	11m lens
Lens	8m lens	11m lens	8m lens	11m lens
Pet immunity	45kg (100lb) dog, 6 cats		36kg (80lb) dog, 5 cats	
Coverage range	8m (27ft)	11m (35ft)	8m (27ft)	11m (35ft)
Installation height	2.4m (7.9ft)	2.1m (6.9ft)	2.4m (7.9ft)	2.1m (6.9ft)
Operating voltage	9 to 16 VDC regulated			
Current consumption	17mA		15mA	
Alarm contacts	NC, 50mA, 24VDC maximum			
Tamper contacts	NC, 100mA, 24VDC maximum			
Alarm time	2.2 seconds minimum			
RF immunity	30V/m from 10MHz to 1GHz			
Operating temperature	0°C to 55°C (32°F to 131°F)			
Storage temperature	-20°C to 60°C (-4°F to 140°F)			
Dimensions	128 x 64 x 41 mm (5.0 x 2.5 x 1.6")			

### Ordering Information

Part Numbers	Description
RK800PT0000A	iWISE PET
RK811DTPTxxA	iWISE DT PET

xx Select the microwave X-band frequency for your market according to the following list:

00	10.525 GHz for most countries
UK	10.687 GHz for UK
FR	9.9 GHz for France and Czech Republic
DE	9.35 GHz for Germany

**ROKONET**  
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