

# PS-5509 Outdoor Pet Immunity Digital PIR Motion Detector



The 5509 digital motion detector combines a patent-pending circuit design, dual-optic sensor design, an interlaced pet-friendly lens pattern and advanced digital processing technologies to differentiate between people and pets while maintaining superior coverage.

The lens and sensors ensure that pets do not generate the signals required for an alarm situation. Since the signal is converted, amplified and processed in the digital domain without any analog circuitry, the parameters of the complete signal are analyzed by sophisticated software algorithms and compared to a bank of movement signals. This allows the motion detector to precisely identify an alarm situation and prevent false alarms.

An object must simultaneously cross the beams of both the upper and lower sensors before a signal is determined to be a potential alarm situation. Since pets do not have the height or mass to cross the beams at the same time and generate the required signal criteria, they will not cause false alarms.

- Impact and temperature resistant casing (-35°C to 50°C / -31°F to 122°F)
- Extremely reliable and false-alarm free
- Dual Optical Filtering System
- UV protected lens
- Dual optics (2 dual opposed element sensors)
- Digital Dual Opposed Detection
- Multi-level sensitivity adjustment
- Can be used with the Heavy Duty Outdoor Swivel Bracket (PS-BK5).



Optional Mounting bracket

## SPECIFICATION

Model	PS-5509
PIR Sensor	2 x Rectangular dual element low noise high sensitivity pyroelectric
PIR Sensitivity	Adjustable in 10 steps
Processor	Microprocessor controlled digital auto pulse signal processing (2 levels)
Signature Analysis	Energy, peak, duration, width & shape
Lens	Second generation Fresnel lens
Sunlight/Strong Light Filter	Built-in white light filter
Installation Height	2.1m
Zones	(11+9+5+5+3) × 2
Temperature Compensation	Auto Digital
Alarm Period	3 seconds
Alarm Contact	N.C., 0.15A/28V DC (Optional N.O.)
Alarm Indication	Red LED light for 3 seconds
Tamper Switch	N.C., 0.15A/28V DC
Warm-up Time	6 seconds
Detection Speed	0.2-3.5 m/seconds
Coverage Distance	12m x 110°
Pet Immunity	40 kg
RFI Immunity	Greater than 10V/M, DC to 1GHz
Weatherproof	IP45
Power Supply	9-16V DC, 30mA
Operating Temperature	-20°C to 70°C
Humidity	95%
Dimension WxHxD	95x168x65mm
Weight	130g

