

OUTDOOR DUAL PIR SENSOR

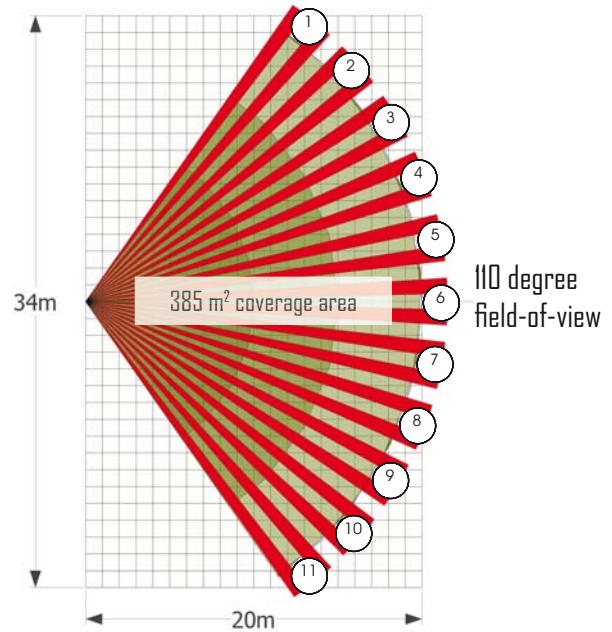


Sensor available in Black, Green or White

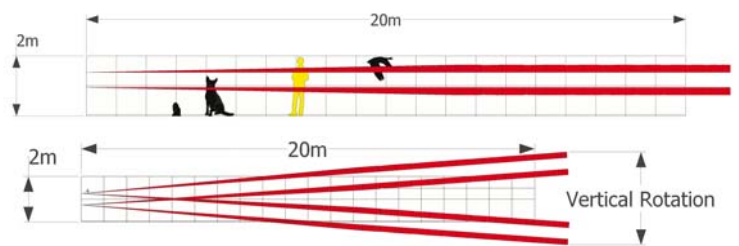


- ① UV stable polycarbonate sun/rain shield
- ② Fresnel Lens (top and bottom) generating 11 curtain beams - individual beam curtains can be masked to reduce coverage area
- ③ 433.92 MHz UHF internal radio antenna, with radio transmission range up to 400 metres - signal strength is continuously monitored
- ④ Internal battery housing for 8 x C-cell batteries, with battery life at least 3 years - battery power is continuously monitored
- ⑤ Tamper switch triggered and tamper alarm signal transmitted when cover removed
- ⑥ Vertical Beam Alignment Screw to adjust beam angle to be parallel to gradient
- ⑦ Opto-isolated PIR sensor enclosures (top and bottom) with micro-processor dual sensor control and fuzzy logic algorithms, with 5 switch settings (including DSP option) and 3 infra-red detection strength settings (half, 3- quarters, or full strength) to ensure optimal performance

COVERAGE



Top View showing the 11 Horizontal Curtain Beams (Full Strength Detection Distance +20 metres. Can be reduced to 10 metres)



Front View of Dual PIR Sensor Detection Beams
Typical Installation Height: 1.1m (will ignore pets and birds)
Beam tilt adjustment $\pm 40^\circ$ (vertical rotation)

TECHNICAL SPECIFICATIONS

Model	ROBOGUARD V5.6
Detection Method	Passive Infrared Dual Opto-isolated Sensors
Coverage	385 m ² (20 m range; 110° coverage arc)
Sensitivity Settings	11 curtain beams; 3 distance settings; 5 algorithm settings
Beam Alignment Method	Walk test using onboard top and bottom buzzers
Initial Warm-Up Period	approx. 20 mins with onboard buzzers activated
Pulse Count Detection Speed	2 to 3 hits within 1 minute 0.2 m/sec to 2 m/sec
Power Input	12 V DC from 8 x C-Cell Alkali batteries
Current Draw	Ultra Low: 25 μ A to 35 μ A
Wireless Communication Protocol	24 bit Trinary Roboguard Protocol
Supervision Monitoring	Radio Signal & Battery strength check every 20 minutes
Radio Coverage	up to 400 metres using 433.92 MHz license free UHF
Operating Temperature	-20 °C to +54 °C
External Shell	UV stable moulded polycarbonate & UV stable lens covers
Weatherproof IP rating	IP54 external shell with IP55 opto/electronic enclosures
Dimensions	500 x 80 x 80 (H x W x D)
Weight	1.1 kg including batteries
Typical Mounting Height	0.75 m to 1.25 m (measured from middle of sensor)
Vertical Mounting Method	4 screws (or with optional mounting bracket accessory)
Warranty	12 months (10 year UV damage on external shell)