

# Genesis Wireless PIR Detector

For event driven CCTV



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## Product Overview

The LGWP range of Wireless Passive Infra Red Detectors (PIR) allow fast, flexible installations with low maintenance and costs.

Genesis uses sophisticated signal processing and optics to minimise nuisance alarms caused by the sun, shadows and reflections as well as loose fluttering materials. Battery life is around two years battery life of around two years which is achieved by a special regulator that maintains optimum performance while the batteries are running down.

Day light and thermal sensors provide automatic compensation in varying climate conditions and there is a shock sensor for detecting physical attack as well as a sensor for anti-masking (cloak).

Supervision is achieved by periodic polling to the receiver whilst reporting battery condition, lens type, sensitivity settings and software version.

The new 3020 detector has these additional features: Infra Red anti-masking, 3 axis acceleration sensor and twin dual element pyroelectric sensors with mirror/lens optics. There is the additional feature of AB logic to provide extra filtering.

For maximum sensitivity, an alarm is generated if either zones A or B are crossed but for an extra degree of filtering an alarm can only be generated is A followed by B or B followed by A is crossed.



## Specifications

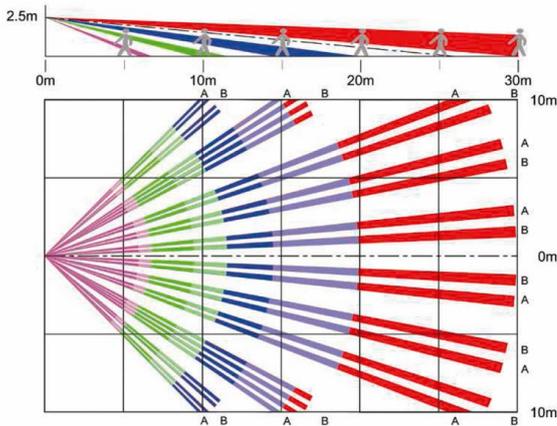
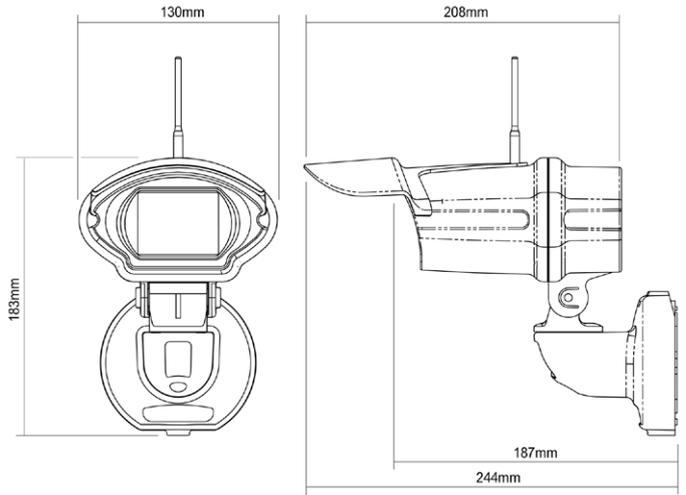
	LGWP3020	LGWP1520	LGWP4004	LGWP12HC	LGWP12VC
BS8418 compliant	✓	✓	✓	✓	✓
Detector lens	30mx20m	15mx20m	40mx4.5m	12m horizontal curtain	12m vertical curtain
Grade 2 EN50131-1	✓	✓	✓	✓	✓
Guarantee (2 years)	✓	✓	✓	✓	✓
Battery life (2 years)	✓	✓	✓	✓	✓
Mounting height (2.5 - 4.0m)	✓	✓	✓	✓	✓
Enclosure tamper	✓	✓	✓	✓	✓
Shock sensor	✓	✓	✓	✓	✓
Anti masking (Cloak) IR	✓	✓	✓	✓	✓
3 Axis orientation sensor	✓	✓	✓	✓	✓
Pyro sensors	Twin dual	Single Dual	Single Dual	Single Dual	Single Dual
Mirror optics	✓				
Temperature compensation	✓	✓	✓	✓	✓
Day light compensation	✓	✓	✓	✓	✓
Periodic polling	✓	✓	✓	✓	✓
Transmission range and type: 1Km Pan European UHF FM	✓	✓	✓	✓	✓
License exempt	✓	✓	✓	✓	✓
Enclosure: Weatherproof to IP66. 3mm polycarbonate	✓	✓	✓	✓	✓
Temperature range: -10°C to +60°C	✓	✓	✓	✓	✓



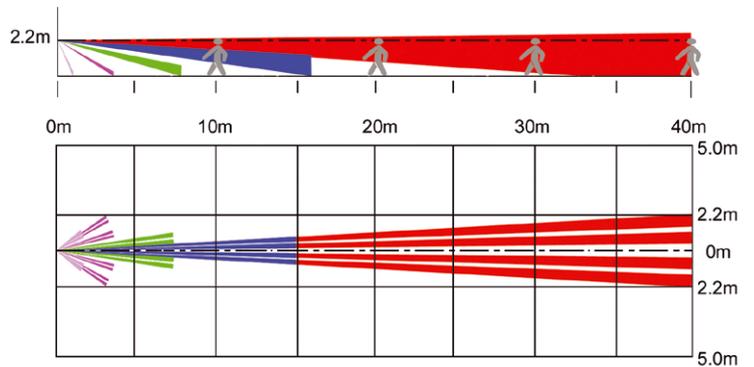
## Available Detection Patterns

There are currently five popular lens patterns to choose from:

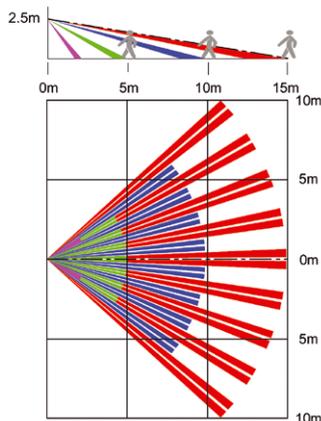
- Long Wide Range (LGWP3020)  
Provides coverage of 30 metres out by 20 metres across.
- Medium Wide Range (LGWP1520)  
Provides coverage of 15 metres out by 20 metres across.
- Long Narrow Range (LGWP4004)  
Provides coverage of 40 metres out by 4.5 metres across. This is ideal for perimeter coverage.
- The horizontal and vertical Curtain types (LGWP12HC) and (LGWP12VC) are just flat fan shaped patterns without the intermediate zones. These are used to look along fence lines or down the sides of a buildings. If the horizontal version is set to look straight ahead, animals will be able to wander underneath the detection zone without causing nuisance alarms.



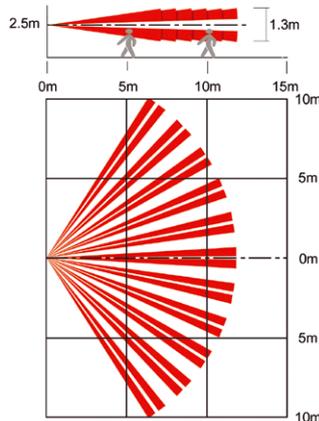
**LGWP3020 ZONE PATTERN**  
LONG WIDE RANGE



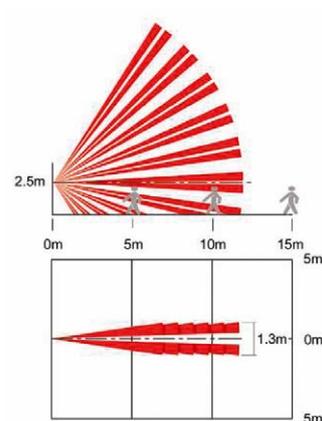
**LGWP4004 ZONE PATTERN**  
LONG NARROW RANGE



**LGWP1520 ZONE PATTERN**  
MEDIUM WIDE RANGE



**LGWP12HC ZONE PATTERN**  
HORIZONTAL CURTAIN



**LGWP12VC ZONE PATTERN**  
VERTICAL CURTAIN

