

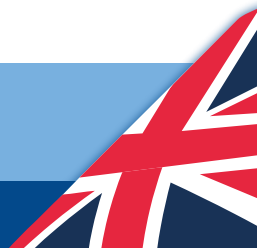


www.luminite.co.uk



Product Guide

Designed and Manufactured in the UK



Specialist Security Solutions

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About Us

Luminite are specialists in PIR detection, wireless switching, IP connectivity and wireless alert systems. We have been designing and manufacturing products from our North London based factory for over 37 years and possess extensive experience in both the security and home automation markets. We are dedicated to providing our customers with the most dependable and robust security solutions, excellent customer service and knowledgeable technical support.

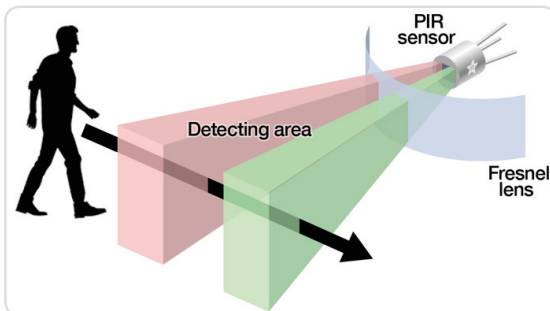


Understanding PIRs

What is a PIR?

Passive Infrared Detectors (PIRs) work by detecting differences in the levels of infrared radiation (IR) emitted by objects in their field of view. They are typically used as part of a CCTV system or for automatic lighting applications.

They are called 'passive' because they don't generate or radiate any energy for detection purposes, working entirely by detecting energy that is radiated by other objects such as humans and animals.

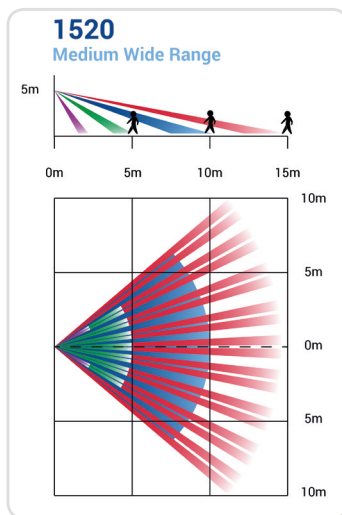


How do PIRs work?

The pyro sensor within the PIR detector is made up of two halves, A and B. When a warm body passes into one of the halves, it creates a positive differential change. When it leaves that half and moves into the other, it creates a negative differential change. These differential changes in IR generate a 'pulse' which the pyro sensor interprets as a detection.

Pyro sensors are typically set to only detect IR levels between 7 and 14 micrometres (μm), which is the amount of IR generated by people and animals.

The detection pattern of the pyro sensor can be altered by using a Fresnel lens, which focuses the IR signals onto the sensor. These lenses can have varying patterns and exclusion zones which increase the range or change the width and height of the detection pattern.



Example lens pattern

Why are PIRs useful?

PIR detectors provide a reliable and low-cost method of marking the location of activity on a site. The detectors can be used to activate cameras in response to a detection event, which removes the need for combing through hours of video footage at a CMS remote monitoring station.

PIR detectors use very little power and are more reliable than cameras using AI video analytics, which don't work well at night under IR lighting and cannot be used with PTZ speed dome cameras. PIR detectors work consistently during both day and night, as well as during variable weather conditions.

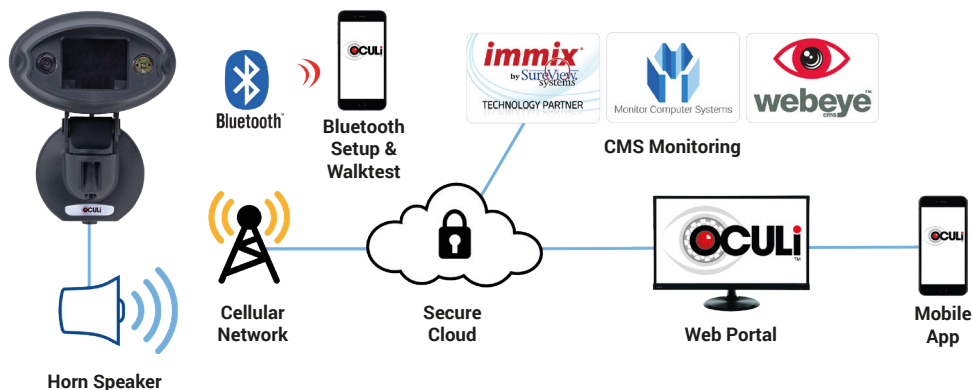


- Rapidly deployable to areas with no power
- Visual verification over the 3G / 4G cellular network in seconds
- View events and set-up units via the mobile app and web portal
- Integrates with popular monitoring platforms
- Programmable arming schedule
- 15m x 90° PIR detection pattern
- Long battery life

OCULi is a battery powered, wireless PIR detector with a built-in colour/monochrome camera and IR illuminator. It is fully portable, wire-free and provides rapid visual verification of captured events using the 3G/4G mobile network. An optional horn speaker can be added to the system which enables use of the Voice Challenge feature. This allows you to call into the unit for 3 minutes after a detection event and use two-way audio.

OCULi can be used anywhere with a good a 3G/4G signal available. Various SIM tariffs are available to suit site requirements, and usage can be estimated using our Data and Battery Usage Calculator. SIM cards are provided or customers can use their own - cloud server fees for the OCULi Web Portal apply.

How OCULi works

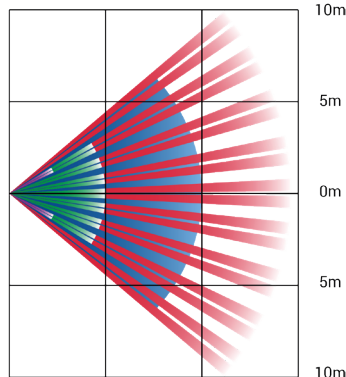
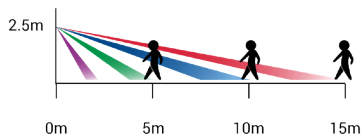


The OCULi online web portal provides an easy and secure way to set-up and control the units, as well as view and download captured footage. Alert notifications can also be sent to the OCULi mobile app as an alternative means of monitoring.

Rapid Visual Verification

PIR Detection Pattern

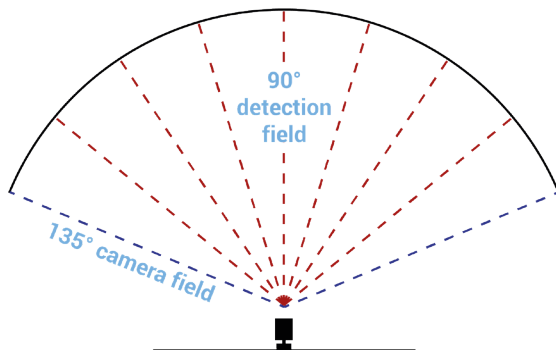
15m x 90°



The PIR detection range is 15m x 90° using a sophisticated quad sensor pyro and falls well within the camera's 135° field of view.

The PIR settings are adjustable within the web portal, allowing the user to configure sensitivity, pulse counting and and/or gating, as well as the day/night threshold.

OCULi is fully tamper protected with IR anti-masking, 3 axis inertia sensing and enclosure tamperers.



Camera Field of View



Sharp Daytime Quality

Superior VGA 640 x 480 colour video starts filming just a few milliseconds after detection, ensuring that events are not missed.



Impressive Night-Time Clarity

Unrivalled monochrome night-time clarity is achieved using powerful built-in infrared LED lighting.

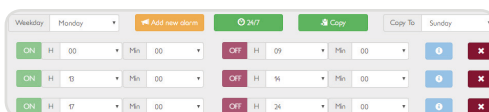
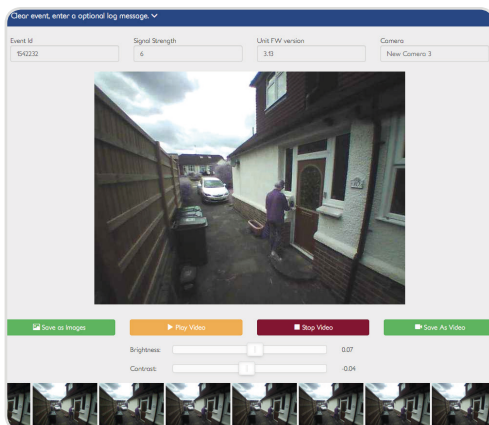
Rapid Visual Verification

The Web Portal

The OCULi online web portal is a full monitoring platform for use with your OCULi units. It allows you to view footage captured by your units, add different sites, change the unit settings, assign new users and keep track of your SIMs and data usage.

The arming schedule of OCULi units can be set individually or site-wide for each day of the week and can be set and unset up to 3 times per day. The arming schedule can be overridden on site by using the Bluetooth feature in the OCULi app to remotely arm and disarm units.

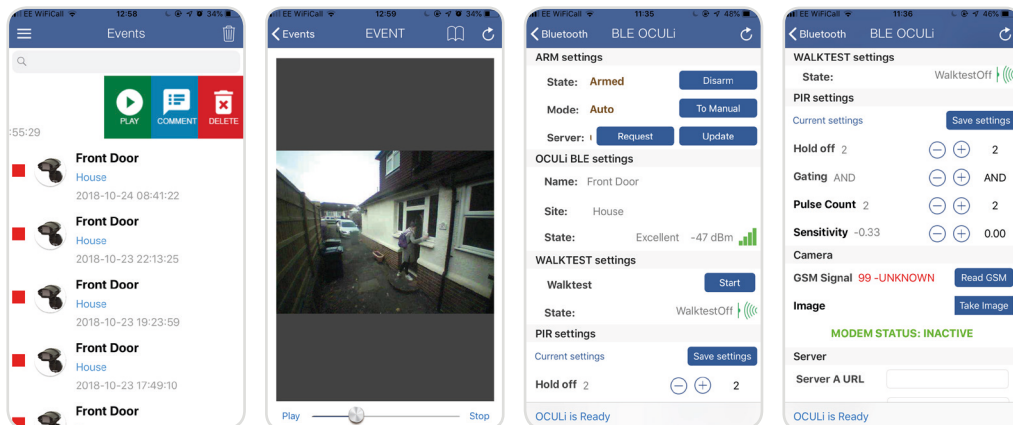
You can also choose which notifications you want to receive from your units and how frequently, as well as how sensitive the PIR is and how often the unit is able to detect.



The Mobile App

The OCULi mobile app provides a convenient way to receive event notifications directly to your phone. The type of event is shown, such as a detection or tamper, and the footage is viewable in the app. Using the Bluetooth feature within the app, you can manually arm and disarm units, change the PIR settings and initiate walk-testing.

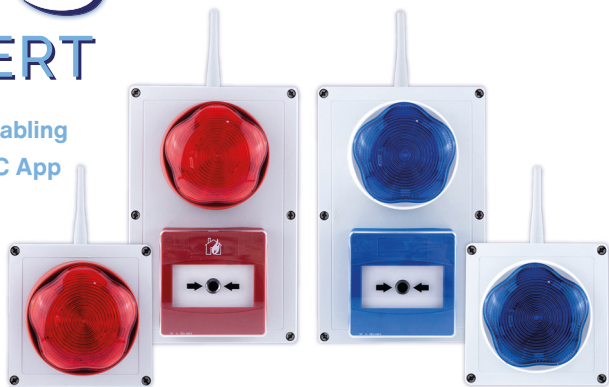
The OCULi app is available for both iOS and Android.



NEXUS[®]

WIRELESS ALERT

- Rapidly deployable with no wires or cabling
- Monitor and control units using the PC App
- Annunciator or simple alert variants
- Wireless with up to 64 units per site
- Long battery life of up to 3 years
- Robust IP66 weather rating
- Red units for Fire Alert
- Blue units for Lockdown



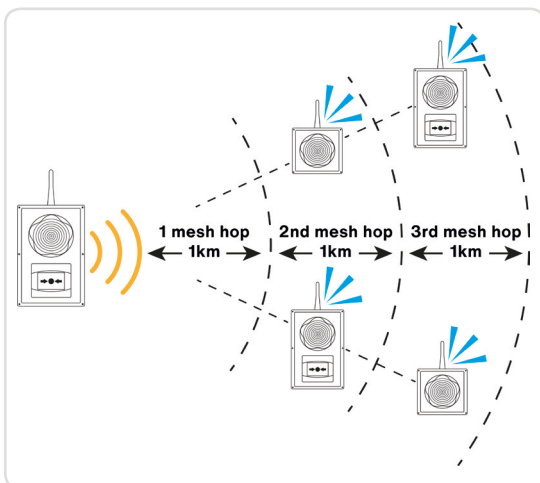
When one Nexus Wireless Alert unit is activated, all units within range that have been programmed with the same site code will also be activated. The Nexus system boasts a robust 1km line of sight transmission range between units and a long battery life of up to 3 years, with a maximum of 64 units operating on one site. Each unit acts as a repeater to form an advanced wireless mesh network, allowing for up to 16 mesh hops between units; this gives the Nexus system a maximum range of up to 16km.

Each site requires at least one master unit, which is fitted with a manual reset key. Resetting the master unit will reset the system post-activation, however, the initially triggered unit will continue to flash until it is manually reset.

Nexus units come in two sound variants which are paired with a visual flashing beacon light. The annunciator variant enunciates a bespoke message that can be customised at the time of ordering, whilst the sounder variant can sound one of 32 different alert sounds. The decibel level of the enunciated message or alert sound can be adjusted to suit the environment.

Nexus units are available in both internal and external options, with external units featuring a robust IP66 weather rating. External cages can be added to protect units from flying objects and debris.

When an IP Masthead is added to the system, NEXUS units can be monitored and controlled from one central location using the PC app. Silent tests can be initiated via the app, and units can be reset post-activation. Email alerts can be set up so that 3 separate email groups can be notified under defined circumstances in the event of an activation.



Wireless Critical Alert System

Lockdown

Nexus Lockdown is designed to give a clear audible and visual alert in the event of an activation. Lockdown units are visually and audibly distinct from fire alert units to minimise disruption and confusion. Units used in schools comply with Ofsted lockdown procedure guidelines which state that 'the use of fire alarms should be avoided to reduce incorrect responses to an incident'.

The Nexus Lockdown system is not limited to academic environments and can also be deployed to a variety of sensitive locations, including places of worship, shopping centres or office buildings. Various case studies demonstrating Nexus Lockdown are available on our website.



Fire Alert

Nexus Fire Alert is ideal for temporary or evolving sites, i.e. construction and utility sites, that require a robust alert to fire. As it is fully portable and wire-free, it can be installed quickly and simply without the need for civil works.

Nexus Fire Alert units comply with current HSE Fire Safety Guidelines (HSG168) regarding audible and visual alerts to fire on construction sites.



NX-SMOKE - Wireless Smoke Detector

The NX-SMOKE is a wireless, battery operated smoke detector for use with the Nexus Wireless Alert System. It features a sealed-in battery with up to 10 years of battery life, and has a wireless transmission range of 100m. When the NX-SMOKE detects smoke, it will activate Nexus units on the same site.



NX-HEAT - Wireless Heat Detector

The NX-HEAT is a wireless, battery operated heat detector for use with the Nexus Wireless Alert System. It features a sealed-in battery with up to 10 years of battery life, and has a wireless transmission range of 100m. When the NX-HEAT detects heat, it will activate Nexus units on the same site.

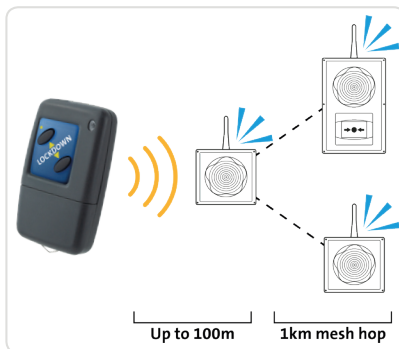


Wireless Critical Alert System

NXFOB - Mobile Panic Alert Keyfob

The Nexus dual button keyfob acts as a portable call point and activates the Nexus Wireless Alert system when both buttons are pressed and held for 4 seconds; this helps to avoid false activation. Users must be within 100 metres of the standard Nexus alerts. The LED light on the fob shows the status of the device when transmitting.

A lanyard with a breakaway clip is supplied with the unit so that it may be worn around the neck and accessed easily in case of a lockdown situation. The NXFOB counts as one of up to 64 Nexus Wireless Alert units that can be used per site.



NXICP-BM - Nexus Call-Point Only

The Nexus Call-Point only has a master reset key and contains no circuitry. It is designed to be wired directly into a Nexus sounder/beacon or annunciator/beacon unit, allowing the button to be positioned according to the user (for example, a person using a wheelchair would require the call-point to be placed lower so that they could reach it comfortably).



NXICP1-BM - Nexus Call-Point Only with Transmitter

The Nexus Call-Point only has a master reset key and acts as a transmitter. It is battery operated and can be used as part of a wireless system with a maximum transmission range of 1km line of sight. The call-point only requires no wires or cabling making it a good option for use as a panic button in an office.

NXICP2-BM - Nexus Call-Point Button

The Nexus Call-Point button can be used as part of a wireless system with a maximum line of sight range of 1km. When the button is activated, Nexus units on the same site will be activated.

The call-point button requires no wires or cabling and is fully battery-powered, making it a good option for use as a panic button in an office. The system can be reset quickly by twisting the push button instead of using a master reset key.



See back page for full list of Nexus part codes >>>



1. LED display enables easy programming, setup and testing
2. Over 1km wireless transmission range that can be extended with repeaters
3. External aerial available to extend transmission of difficult sites
4. Sophisticated signal processing and optics minimise false alarms
5. Various detection patterns available up to 60m
6. IP interface to a wide range of leading brand NVRs
7. Up to 64 detectors can operate with one masthead receiver
8. Easy to use walk test instrument saves time and money for the installer
9. Wireless keypad and keyfob available for easy remote set and unset of alarms
10. IP66 weather rated and Grade 2 compliant

Wireless System

Wireless Genesis PIR detectors feature a robust wireless transmission range of up to 1km and are completely wire-free. A battery life of up to two years is achieved using advanced power-saving technology which allows the unit to maintain optimum performance at all power levels.

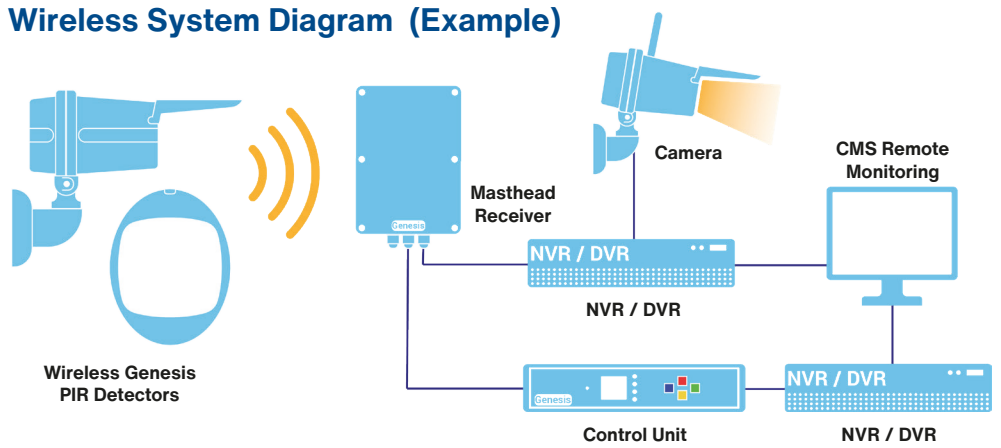
Up to 64 units can transmit to a single receiver, and Genesis products are compatible with a wide range of popular NVRs and DVRs.

A powerful wireless walk-test instrument makes setting up the system quick and easy and ensures that the installation is thoroughly tested and optimised.

Continued >>>

Sophisticated PIR Detection

Wireless System Diagram (Example)



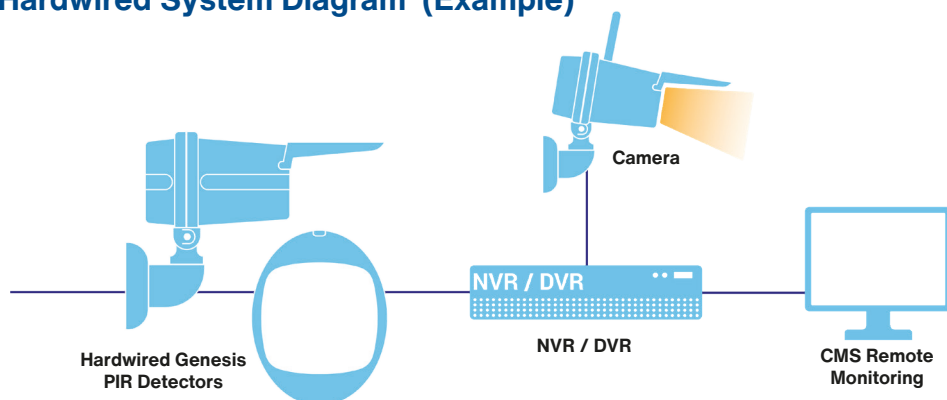
Hardwired System

Hardwired Genesis PIR detectors are powered from an external power supply with variable input voltage ranges from 12 volts to 24 volts AC or DC. They can connect directly into a CCTV system and require no other receivers unless you are using a connection with wireless PIRs.

A plug-in transmitter module is available for hardwired Genesis 2 units which allows you to use the wireless walk-test instrument to set-up units.

The transmitter can be left plugged into the hardwired Genesis 2 unit, making it a hybrid detector with relay outputs and transmission to EasySwitch or Genesis receivers, enabling remote lighting control and switching as well as alarm interface, both locally and remotely.

Hardwired System Diagram (Example)



Genesis 1

Genesis 1 is a versatile PIR detector that uses sophisticated signal processing and optics to minimise nuisance alarms caused by the sun, shadows and reflections.

Daylight and thermal sensors allow the unit to automatically compensate for varying climate conditions, whilst the sensitivity of the pyro can be adjusted by changing the AB filtering settings which determine whether an alarm is generated depending on whether one (A or B) or both (A and B) infrared beams are crossed.

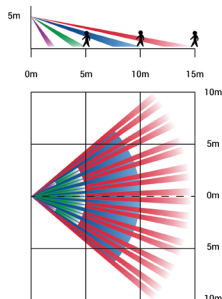
Genesis 1 uses a sophisticated dual element pyro sensor combined with a powerful microprocessor which uses complex algorithms to determine the validity of detection events. This minimises nuisance alarms and increases detection accuracy. The 3020 variant features two dual element pyro sensors and mirror optics to provide a much larger detection range whilst maintaining accuracy.

Genesis 1 has four built-in methods of detecting a tamper alert: the shock sensor detects physical attacks, the anti-masking sensor allows the unit to detect when the lens has been covered, the 3-axis inertia sensor detects movement of the unit, and there is a switch that detects when the front and back of the unit have been separated. The anti-tamper sensors remain active even when the unit is disarmed.

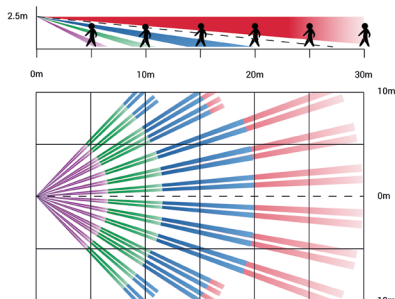
All Genesis 1 detectors are housed in a durable polycarbonate housing, are IP66 weather rated and are EN50131-1 Grade 2 compliant.



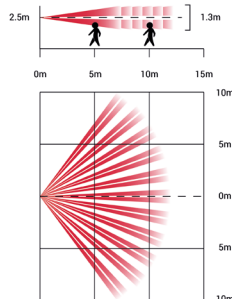
1520
Medium Wide Range



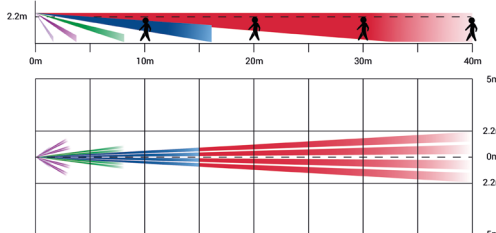
3020
Long Wide Range



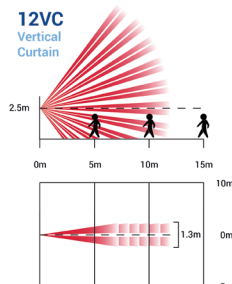
12HC
Horizontal Curtain



4004
Long Narrow Range



12VC
Vertical Curtain



Genesis 2

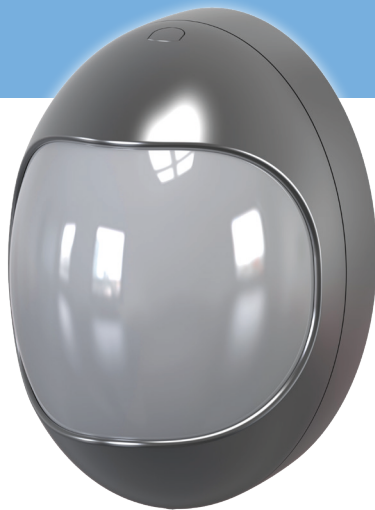
Genesis 2 is a covert PIR detector which uses advanced black mirror optics and quad element pyro sensors for highly responsive, accurate detection with excellent false alarm immunity.

The adaptive focal distance of the mirror ensures the target remains the same size regardless of distance which enables accurate detection over the full coverage area.

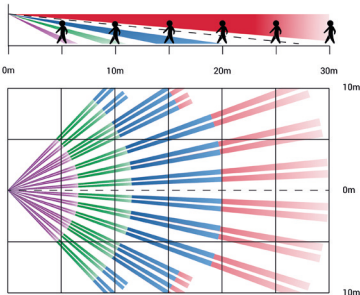
The view angle is covert and cannot be ascertained by looking at the unit. Additionally, Genesis 2 is less prone to unauthorised adjustment as there are no external movable parts.

The easy-access programming panel with LED display simplifies setup and testing. A plug-in transmitter module (LG2TM434) allows hardwired Genesis 2 units to interact with the Genesis Walk-Test instrument (LGWT434), allowing you to easily test positioning and signal of units.

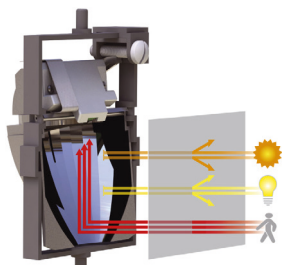
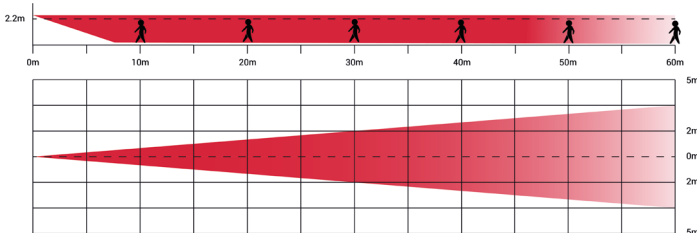
The modern and covert design of Genesis 2 disguises its true purpose as a PIR detector. It is IP66 weather-rated with two options for cable entry and is EN50131-1 Grade 2 compliant.



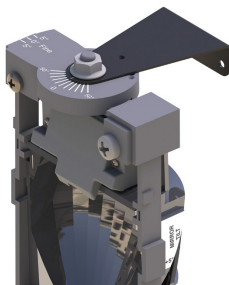
3020
Long Wide Range



6004
Long Narrow Range



The special black mirror has the most efficient absorption of white light and ensures common sources of false alarms such as sun light or car headlights are rejected.



Internal adjustment allows a full left to right adjustment of the mirror position with $\pm 55^\circ$ and also a downward tilt of 15° . Full RF shielding over sensitive circuitry.



The new easy access programme feature complete with the LED display makes set up and testing quick and simple.

Genesis - Receivers and Control Units



LGMT434 Masthead Receiver

The Genesis Masthead Receiver is weather proof to IP66 and forms the heart of a Genesis Wireless system. Its purpose is to receive alarm data from the PIR's and pass it to a control unit via an RS232 link.

A Masthead can transmit data as well as receive it, which means it will transmit back to a Walk Test Instrument to show all received information as well as the signal strength at the masthead. In addition, it can perform as a repeater for systems that require greater transmission operating distances.

Dimensions: L90 x W115 x D55mm

Operating temperature: -10°C to +60°C



LGMRU4x4 Masthead Receiver with Relays

This alternative to the LGMT434 Masthead Receiver has the addition of relay outputs which can be connected directly to the alarm pre-sets of a PTZ camera.

The unit provides either 4 alarm outputs with corresponding tamper outputs or eight alarm outputs without tampers. DIL switches set the different modes as well as the unit code groups. There is no limit to the number of LGMRU4x4 units that can be used on any one system.

Dimensions: L195 x W120 x H55mm

Operating temperature: -10°C to +60°C

LGREM4x4 Expansion Module

This module can be added to the LGMRU4x4 to increase the number of outputs.



LGIP MT434 IP Masthead Receiver

This Genesis Masthead Receiver has the same functionality as the standard Masthead but with the addition of IP connectivity.

As with the standard version this Masthead is a transceiver, being able to transmit back to the walk test instrument and output serial RS232 to connect to the Genesis range of accessories or compatible third-party products. The IP connectivity allows remote monitoring of the system to alert conditions such as low battery or lost radio communication.

The Genesis MH Manager analyser program may also be run remotely to scrutinise the integrity of the radio communication, keeping service call outs to a minimum. Additionally, the IP Masthead can work with remote monitoring software such as IMMIX, Sentinel, Genetec, ISM, etc, to provide direct alarms to the monitoring centre whilst still being able to generate alarms on site.

Dimensions: L90 x W115 x H55mm

Operating temperature: -10°C to +60°C

Genesis - Receivers and Control Units



LGRU16 Relay Unit with 8 Alarms & 8 Tamper

The LGRU16 & LGRU16ELR control interface relay units provide physical alarm and tamper outputs for DVR and Alarm systems. The LGRU16 is supplied with one LGRM8 relay module which provides 8 alarm and 8 tamper relay contacts.

A further LGRM8 expansion module can be added to the unit which increases it to 16 alarm and 16 tamper outputs.

Between one and four LGRU16 relay units can be connected to a single masthead receiver, providing the maximum of 64 alarm and 64 tamper contacts. The ELR (end of line resistor) versions are available to suit most popular alarm panels.

Dimensions: H50 x W250 x D180mm

Operating temperature: -10°C to +60°C



LGRU16ELR Galaxy

Relay control unit with 8 zones for use with Galaxy alarm panels. It can be expanded to 16 zones using the LGRM8 Galaxy expander module with tamper.

LGRU16ELR Adpro

Relay control unit with 8 zones for use with Adpro alarm panels. It can be expanded to 16 zones using the LGRM8 Adpro expander module.

LGRU16ELR Castle

Relay control unit with 8 zones for use with Castle alarm panels. It can be expanded to 16 zones using the LGRM8 Castle expander module.



LGIPMRU4x4 Genesis IP Masthead Receiver with relay contact outputs

The LGIPMRU4x4 can receive from up to 64 wireless PIR detectors or other detection devices with Genesis transmitters. This provides either 4 alarm and 4 tamper outputs or eight alarm outputs without tamper. Expansion is possible with the LGREM4x4 module.

IP connectivity is by way of an RJ45 socket and facilitates plug and play alarm integrations to selected NVR and alarm products as well as remote monitoring platforms such as IMMIX.

Up to three email addresses can be configured to receive alerts such as 'low battery' and other tamper messages.

Remote control facilitates such as Arm/ Disarm as well as allocation of PIN numbers and names for the wireless key point are achievable over IP.

The LGIPMRU4x4 uses Boot Loader technology allowing remote free updates.

Genesis - Accessories



LGWT434 Walk Test Instrument

The Genesis Walk Test Instrument is a Transceiver that has the ability to receive signals directly from the PIR detectors or via the Masthead. It can also transmit to simulate a PIR in order to check proposed PIR positions before installation begins.

An LCD shows PIR information such as ID number, Lens type, Pulse count setting, signal strength and battery condition. In addition, the display can also show an alpha numeric name for each PIR which makes identification easier.

Dimensions: H186 x W105 x D90mm

Operating temperature: -10°C to +60°C



LGRM8 & LGRM8ELR Relay Modules

The LGRM8 & LGRM8ELR relay modules can be fitted to an LGRU16 or LGRU16ELR to provide an extra 8 alarm and 8 tamper contacts.

The LGRM8 relays provide eight Normally Closed tamper contacts and eight Change Over alarm contacts. The LGRM8ELR version has screw terminals and End Of Line Resistors to suit most popular alarm panels.



AE434 High Efficiency Aerial

Use this aerial with either the LGMT434 Masthead or LGMRU4X4 to achieve maximum reception range. This external aerial is supplied with a mounting bracket and 5 metres of coaxial cable with 50 Ohm BNC connector. Versions with a longer cable are also available.

AE434 MAG

Same as AE434 but comes with a magnetic bracket for use on steel clad buildings.



LGTX434 Wireless Genesis Transmitter

The LGTX434 transmitter module enables other detection products to interface with the Genesis Wireless system such as Active Infra Red Beams and Door Contacts.

The module is powered from batteries and has a special regulator that maintains optimum performance even when the batteries have run down. When used with battery beam sets, the LGTX434 will report the battery status of the beam set. Available as 3 or 12 volt.

Dimensions: H115 x W65 x D40mm

Operating temperature: -10°C to +60°C

Genesis - Accessories



LGKSQ Wireless Remote Set/Unset Keypad

The LGKSQ Wireless Keypad can be simply and quickly installed to provide wireless remote setting and unsetting of a Genesis system. This is a secure encrypted duplex system with confirmation of the alarm status displays on the Keypad facia.

Operation is by way of a five-digit PIN number providing 248,832 combinations. The keypad works in conjunction with an IP Masthead Receiver which can store up to eight PIN numbers and associated user names. Communication to the masthead receiver is via Ethernet or RS232.

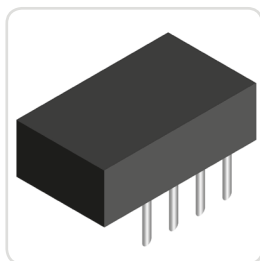
As this is a duplex system, the set/unset status of the system can be checked from both the keypad and over IP. Existing Genesis installations can be easily upgraded to take advantage of the keypad which has a range of approximately 300 metres.



LGKF4 Keyfob

The Genesis keyfob works in conjunction with the LGMRU4x4. Using the key fob to indicate the set or unset status means that the alarm system conforms to BS8418. Up to 16 Genesis key fobs can be learned to the receiver allowing site users to control the detectors.

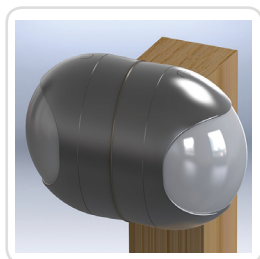
You can also use the key fob for the remote control of doors and gates by assigning it to one of the AUX relays on the receiver. This function can also be used to give a visual indication of the Set / Unset status.



LG2TM434 Test Transmitter Module

The LG2TM434 Test Transmitter Module is for use with the hardwired Genesis 2 models. The test transmitter module simply plugs onto the detector next to the new LED display to enable you to easily walk test the unit wirelessly using our Walk Test instrument (LGWT434).

The transmitter can be left permanently in the hardwired Genesis 2 making it a hybrid detector with relay outputs and transmission to EasySwitch or Genesis receivers, enabling remote lighting control and switching as well as alarm interface locally and remotely.



LG2AB Angle Bracket

The LG2AB Angle Bracket allows the detector to be mounted at 90 degrees to the wall, or back-to-back as shown in the picture.



EasySwitch is a range of wireless transmitters and receivers for commercial and domestic applications. EasySwitch is suitable for hundreds of scenarios; mix and match products to create your perfect system.

- PIR trigger security lighting or a CCTV system
- Easily overcome difficult wiring situations
- Control garden lighting or features
- Fit new light switches without cables
- Control HVAC devices
- Operate gates for a driveway or commercial site
- Operate garage doors or roller shutters
- Solve wiring oversights quickly and easily
- Trigger an audible alert to visitors and intruders
- Remotely control lighting with a key fob



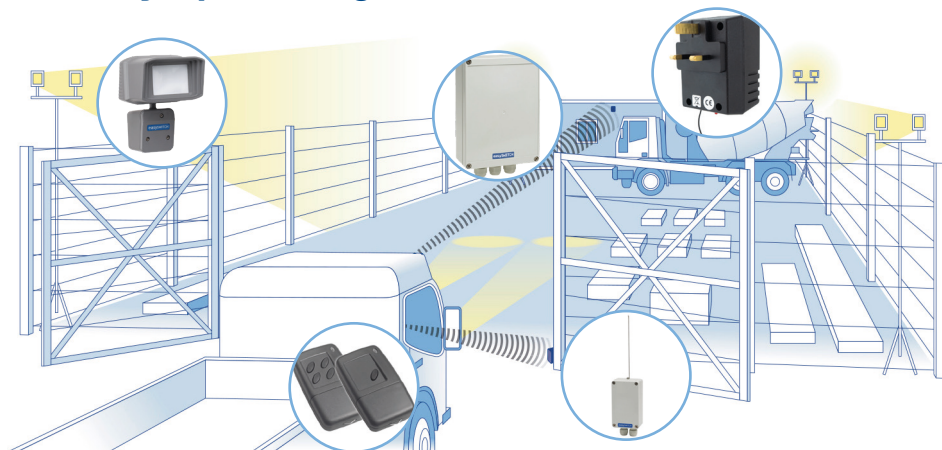
Wirelessly Control Outside Lights and Internal Bleeper



Battery powered, standalone ESD PIR Detectors have a built-in transmitter and can be sited up to 100 metres from the ESR1 Receiver. In this scenario, the intruder is detected by the PIR detector which sends a signal to the receiver to turn on security lights. It also sends a signal to the ESB Plug-In Bleeper to give an audible alert. Multiple PIRs can be used with a single or four-way receiver to provide maximum coverage.

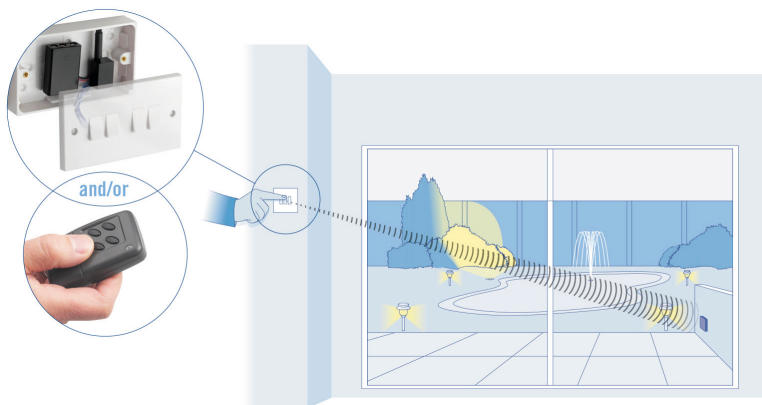
The Simple Wireless Switching Solution

Wirelessly Operate Lights and / or Electric Gates



With a transmission range of 100m and long battery life, EasySwitch Key Fobs offer the perfect solution for wireless switching. Working in conjunction with the ESR4 Receiver, up to four circuits can be switched from a single fob. An optional ESB Bleeper can also be used to alert staff working on site or within a construction office. A single circuit ESR1 Receiver can be used to operate, for example, gates or just a single lighting circuit. Wireless PIR detectors enhance the system by facilitating automatic switching of security lighting and beepers.

Wirelessly Control Garden Lighting and Features



The EST1 Wall Switch Transmitter allows you to position a switch virtually anywhere within your home or premises. It is battery powered and wireless so requires no expensive or intrusive cabling works to be carried out and fits behind most conventional light switch plates. It works in conjunction with either the ESR1 or ESR4 Receiver to control garden lighting or pond features. The Key Fob also acts as a transmitter to the receiver.

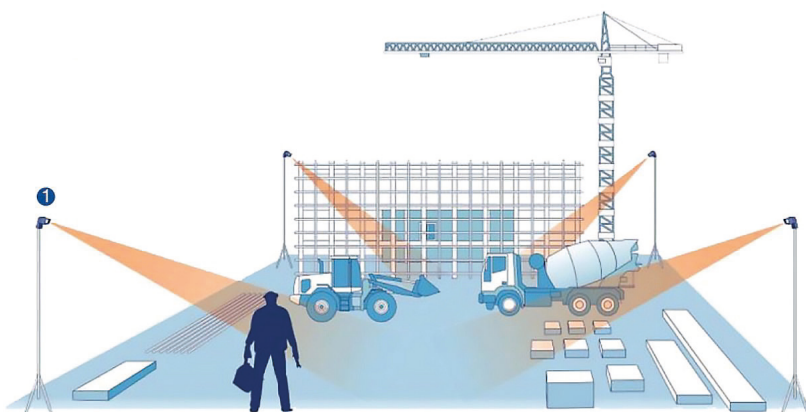
The Simple Wireless Switching Solution

Wirelessly Control Pumps and Under Floor Heating



Especially designed for retro fit control of HVAC systems, the EST4HVAC Transmitter sends a signal to the ESR1 Receiver to switch a pump to control underfloor heating or a boiler system. The transmitter and receiver can be sited up to 100 metres from each other with no costly cabling involved. The EST4HVAC can accept up to 4 inputs so will also work with the ESR4 Receiver to control up to 4 devices which can include lighting and water pumps.

EasySwitch Detectors working with the new 16 Zone Receiver



Up to 16 standalone PIR Detectors can be used with the ESR8+8 Receiver to provide cost effective protection for a construction site. The detectors will sense the movement of the intruder and wirelessly transmit that information to the receiver. This receiver has volt-free contacts and in turn can be connected to any third-party alarm panel or DVR / NVR which operate sounders, security lighting or CCTV. The receiver can be sited up to 200 metres away from the detectors.

EasySwitch - Transmitters



ESD Wireless PIR Detector / Transmitter

Powered by one PP3 9-volt battery, this PIR detector will remotely operate lighting and audible warning when used with the appropriate receiver. Lighting control receivers will only operate between dawn and dusk whereas the ESB bleeper can operate during the day only or night only or day and night.

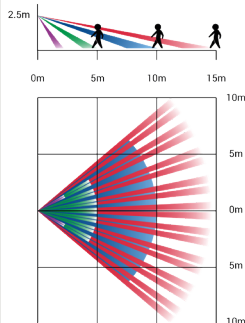
Operating temperature: -10°C to +60°C

ESD.1 15m Short Wide Angle

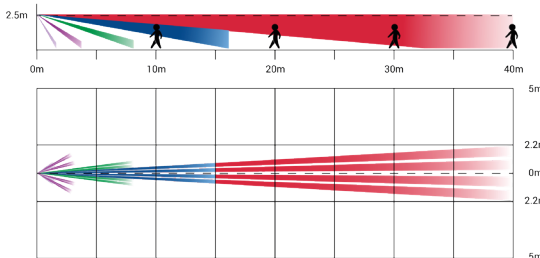
ESD.2 40m Long Narrow Range

ESD.3 12m Horizontal Curtain

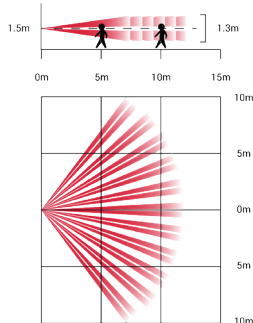
ESD 1 1520 - Medium Wide Range



ESD 2 4004 - Long Narrow Range



ESD 3 12HC - Horizontal Curtain



ESF.1 & ESF.4 Wireless Keyfob Transmitter

The EasySwitch keyfob is available as a single or quad button version. These keyfobs operate ESR.1, ESR.2 and ESR.4 receivers. They may be used individually or in conjunction with EST.1 wall switch transmitters and ESD PIR detectors.

Operating temperature: -10°C to +60°C

EasySwitch - Transmitters & Receivers



EST.1 Wall Switching Transmitter

The EasySwitch EST.1 transmitter module can be fitted into any one to four gang switch plate. It's a flexible product that has no restrictions on which make or style it is fitted into and doesn't require a dedicated switch like some other products. The transmitter can be used for numerous applications as it only requires a volt-free switch contact to activate it.

Operating temperature: -10°C to +60°C

PP3 Lithium PP3 9 Volt-Battery

This Lithium PP3 9-volt battery has more than twice the power and life of an alkaline battery and reduces service and maintenance calls.



EST4HVAC Wireless Transmitter for HVAC Appliances

Specially designed for retro control of HVAC systems the EST4HC is the ideal wireless solution where mains cabling is difficult or impractical. It is mains voltage powered and designed so that it can easily interface to various control devices that have mains signal outputs.

With four inputs this product is designed to work with the EasySwitch single (ESR.1) or four circuit (ESR.4) receivers to allow remote control of up to four electrical circuits within a building or from one building to another.

Dimensions: L114 x W65 x D40mm

Operating temperature: -10°C to +60°C



ESR.1 240 Volt On/Off Receiver

The ON/OFF EasySwitch receiver is designed for outdoor use and is weather proof to IP66. With up to 1KW switch capacity, they can operate a variety of devices such as electric motors, gates and doors, garden lighting, water features and much more. Volt free relay contacts provide the means of switching which makes it very versatile.

Dimensions: L114 x W65 x D40mm

Operating temperature: -10°C to +60°C

ESR.2 12 Volt On/Off Receiver

The ESR.2 ON/OFF EasySwitch receiver is similar to the ESR.1 but is powered by 12-volt DC.

EasySwitch - Transmitters & Receivers



ESR.4 Four Channel Receiver

The ESR.4 EasySwitch receiver is designed for outdoor use and is weather proof to IP66. With four relays capable of switching 1KW switch capacity per relay, they can operate a variety of devices such as electric motors, gates and doors, garden lighting, water features and much more.

Dimensions: L190 x W140 x D90mm

Operating temperature: -10°C to +60°C

ESR4X4 Four Channel Receiver Kit

Combination kit comprising of an ESR.4 and ESF.4. This is a cost-effective way to buy these two products.



ESR8x8 16 Way Receiver with Relays

This new addition to the Easyswitch range has been designed for CCTV and Alarm systems that require up to 16 or more wireless PIR detectors to be received to one central position. This is a high gain receiver which, when used with an AE434 external antenna, extends the wireless range of PIR detectors to up to 1Km line of sight.

Dimensions: L170 x W120 x D55mm

Operating temperature: -10°C to +60°C

ESEM8x8 Expansion Module

This expansion module for the ESR8x8 expands the number of volt-free relay outputs from eight to sixteen.



ESB.1 Mains Operated Plug-in Bleeper

This useful bleeper gives an audible bleep each time it receives a valid signal from an EasySwitch PIR detector or Key Fob. The ESB is powered from the mains socket into which it is plugged.

Operating temperature: -10°C to +60°C



GX30 - Hardwired PIR Detector

The GX30 Globe provides covert PIR detection and incorporates the latest technologies with excellent immunity to nuisance alarms.

- Stylish covert detector design
- Pet immune lens array
- 30 metre range
- Sliding internal curtains allow for a customisable field of view
- Rear and front tampers give an added layer of security
- Adjustable pan and tilt feature provides discreet coverage from a variety of angles
- Two independent relays contacts, one of which is programmable
- Robust IP55 weather rated housing



Advanced Covert Detection

This low voltage PIR detector is powered from 12 volts DC and can be used for a variety of purposes from alarm and CCTV motion detection to lighting control.

There are two independent volt free relays; one is dedicated for CCTV and alarm signalling whilst the other can be configured for other purposes that require a longer time and/or different polarity.

A built-in light sensor may be gated to the second relay and the contact time can be varied making it ideal for lighting control.

Front and rear tamper is provided by way of volt free normally closed contacts.

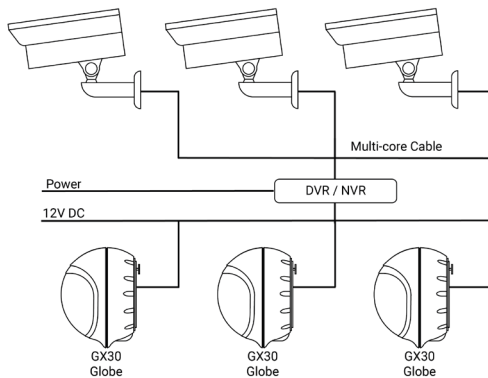
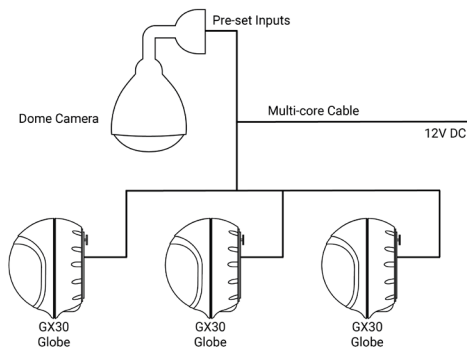
Versatile Coverage

The detection area is 30m x 70° and the internal optical assembly can be adjusted from side to side as well as down so that the product does not have to be mounted facing in the direction of the area to be covered. Additionally, this product can be set up for pet immunity or curtain coverage.

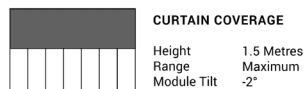
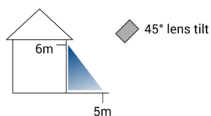
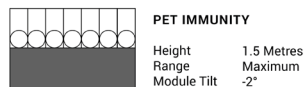
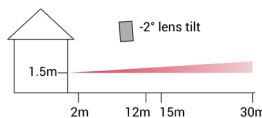
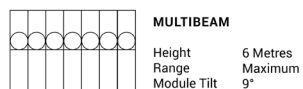
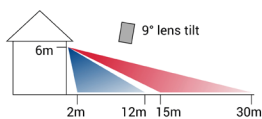
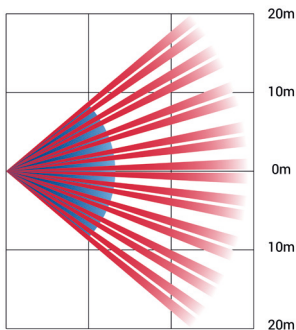
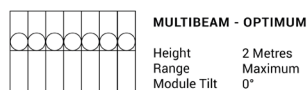
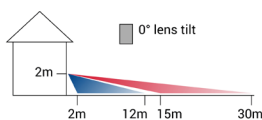
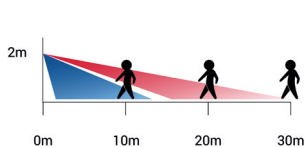
Walk testing is by way of a bright LED.

GX30 - Hardwired PIR Detector

Example Installations



Lens Pattern and Coverage Configurations



Hardwired - PIR Detectors

Omega Mains Powered PIR Detector, 2KW Capacity 15m, 40m, 12HC (Horizontal Curtain) & 12VC (Vertical Curtain)



The Omega is a complete PIR detector in a two-part housing. The lower part of the detector is mounted to the wall and contains the cable connection terminals and adjustable controls.

The head of the detector may be tilted and rotated to aim at the area to be covered. Powerful light switching capability (up to 2000 Watts, depending on lamp type) from a 30-amp relay. Suitable for domestic or commercial use. Available in three different lens patterns. Weatherproof UV stabilized case to IP65.

Dimensions: H145 x W100 x D155mm

Operating temperature: -10°C to +60°C

GX200 12 Volt External PIR Detector 15m, 40m, 12HC (Horizontal Curtain) & 12VC (Vertical Curtain)

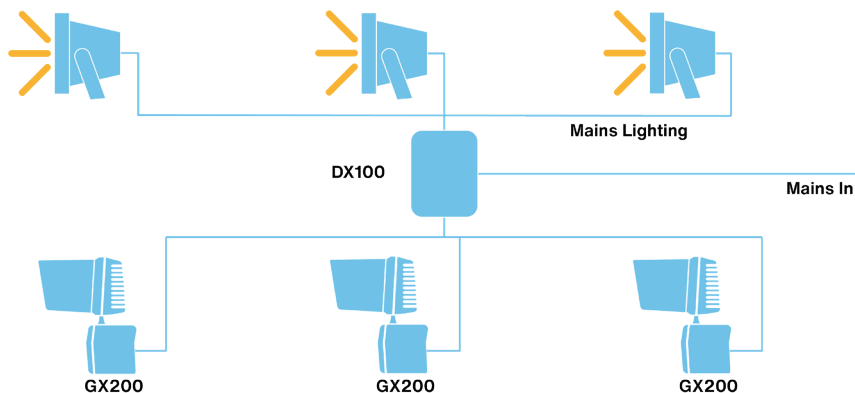


This detector is available in three popular lens patterns and is designed to work with the DX100 lighting control unit. It can also be used for CCTV event detection. Powered by 12-volt DC. Weatherproof UV stabilized case to IP65.

Dimensions: H145 x W100 x D155mm

Operating temperature: -10°C to +60°C

System Diagram (Example)



Hardwired - PIR Detectors

GX250 12 Volt External PIR Detector for CCTV 15m, 40m, 12HC (Horizontal Curtain) & 12VC (Vertical Curtain)

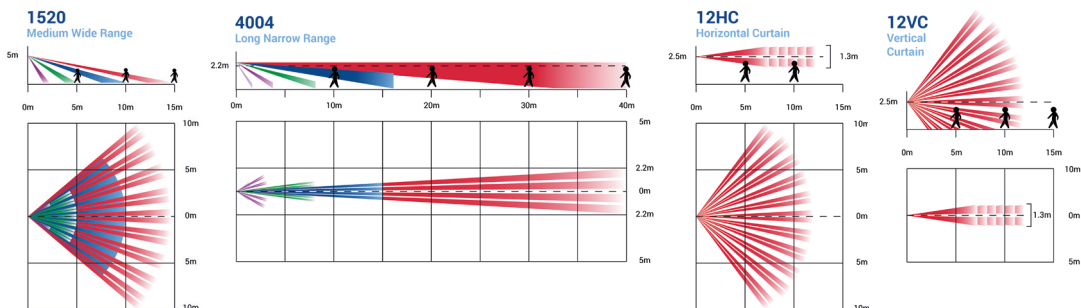


The GX250 is an economic all-round detector suitable for use on CCTV systems that do not have to conform to BS8418. There are three popular lens patterns to choose from and this product has anti-tamper on the connector cover plate. Powered by 12-volt DC. Weather proof UV stabilized case to IP65.

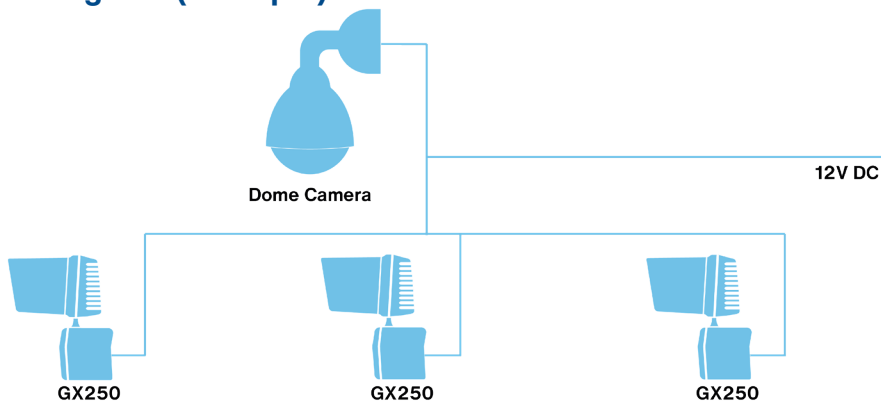
Dimensions: H145 x W100 x D155mm

Operating temperature: -10°C to +60°C

Hardwired Detector Lens Patterns



System Diagram (Example)



Hardwired - Accessories



DX100 Lighting Control Unit for GX200 PIR Detectors

The GX200 detectors are wired to the DX100 using 4 core alarm cable and up to six detectors may be connected. A PC35 relay module may be plugged on to the DX100 for CCTV interface. IP66 weather proof enclosure.

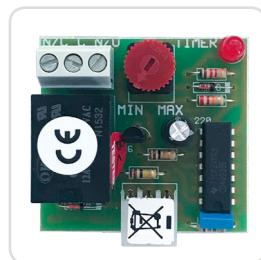
Adjustable timer control from 5 seconds to 15 minutes

Mains input voltage: 220-240 volt 50hz

Power switching: 3KW resistive with 12 amp relay

Dimensions: H160 x W110 x D93mm

Operating temperature: -10°C to +60°C



PC35 Timer Module

This 12-volt timer module has volt free change over relay contacts and an adjustable time between 5 seconds and 5 minutes. Plugs directly on to the DX100 to provide an independent relay not affected by the light sensor.

PC35W Timer Module

This module is the same as the PC35 but has wires instead of a connector so that it can be used with other products.



EX5 External Sounder

This waterproof IP65 sounder has a voltage working range from 9-volt DC to 28-volt DC.

Warble or single tone

Sound level 105db at 1 Metre

12m/a at 12 volt

Dimensions: H90 x W90 x D42mm



EX6 Walk-Test Sounder

For use with GX250 detectors. Similar to EX5 but with a 3.5mm jack plug.

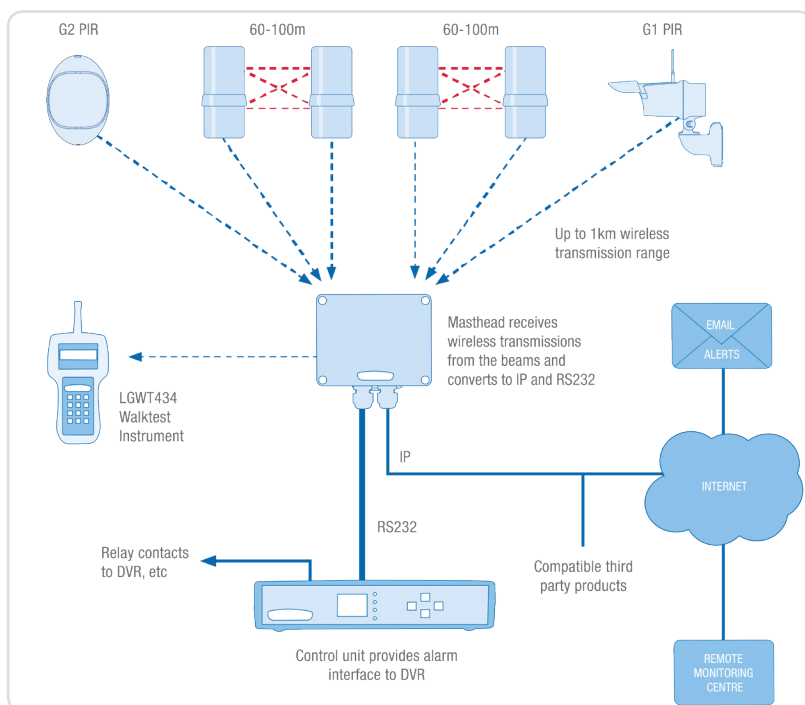
Boundary Shield

Boundary Shield is a wireless, battery-powered active infra-red beam system fitted with Genesis transmitters and is compatible with all Luminite Genesis wireless products, enabling long range communication up to several kilometres. It is particularly suited to perimeter protection sites where civil works would prove costly and time consuming. With Boundary Shield you can have a fully operational protective barrier up and running in a matter of hours. Using beams with Genesis PIRs offers a complete and robust perimeter solution for large sites.

Active beams come in two detection ranges (60 metre & 100 metre) and with fixed or adjustable frequency control to avoid cross talk between beams. The beams have built in transmitters for independent use and can also be fitted within beam towers by separating the transmitter/battery enclosure. Beam towers are available as free-standing units or can be wall mounted.

The beam sets have a rear battery compartment to take two Lithium D cells such as the SAFT LSH20. (Batteries are not supplied.) The Genesis wireless transmitter is built into the battery housing providing a compact single product solution. The battery housing and transmitter may also be detached from the beam and mounted separately inside a tower if required.

Long battery life of between 3 and 5 years is achieved by specialised low power circuitry and the use of Lithium batteries. Low battery warning is transmitted to the receiver which can then be indicated locally or remotely by email alert or via the ARC. Wireless communication is secure and robust by way of polling and rolling codes.



Boundary Shield - Beams & Accessories



BSSL350QFRL

100m channel selectable quad beam fitted with Luminite transceiver.

BSSL350QNRL

100m fixed channel quad beam fitted with Luminite transceiver.

BSAX200TFRL

60m channel selectable dual beam fitted with Luminite transceiver.

All units are battery powered (4x 3.6v Lithium D Cells) with a 1km wireless transmission (batteries ordered separately).

Operating temperature: -10° to +60°

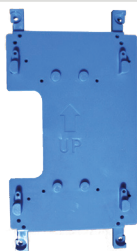


BSTF

Double sided tower base

BSTFS

Single sided tower base



BSMP4

Mounting kit for BSSL beams

BSMP2

Mounting kit for BSAX beams



BSAXWMT

180° wall mount beam tower (2m)

BSAXBT

360° free-standing beam tower (2m)

LOBP1

2x 3.6v Lithium D Cell batteries

Part Codes

OCULi	
LO153GIRG	OCULi 3G PIR camera without batteries
LSH20	1 x SAFT 3.6V Lithium D Cell battery (OCULi requires 2 batteries)
HORNSPEAKER	Horn speaker with connector and gland

Genesis Wireless	
LGWP3020	30m x 20m lens, dual pyro sensors and AB zone filtering
LGWP1520	15m x 90° lens with pan European frequency transmitters
LGWP4004	40m x 1° lens with pan European frequency transmitters
LGWP12HC	12m x 90° horizontal curtain lens with pan European frequency transmitters
LGWP12VC	12m x 90° vertical curtain lens with pan European frequency transmitters
LG2WP3020	30m x 20m Genesis 2 with quad pyro sensor and black mirror optics
LG2WP6004	60m x 4m Genesis 2 with quad pyro sensor and black mirror optics

Genesis Hardwired	
LGHW3020	30m x 20m lens, dual pyro sensors and AB zone filtering
LGHW1520	15m x 90° lens with pan European frequency transmitters
LGHW4004	40m x 1° lens with pan European frequency transmitters
LGHW12HC	12m x 90° horizontal curtain lens with pan European frequency transmitters
LGHW12VC	12m x 90° vertical curtain lens with pan European frequency transmitters
LG2HW3020	30m x 20m Genesis 2 with quad pyro sensor and black mirror optics
LG2HW6004	60m x 4m Genesis 2 with quad pyro sensor and black mirror optics
LG2TM434	Plug-on transmitter module for hardwired Genesis 2 for use with walk-tester

Nexus - Internal and External Call-Points with Sounder / Beacon	
NXICSB -R	Internal call-point with sounder / beacon - colour red
NXICSB -B	Internal call-point with sounder / beacon - colour blue
NXICSB -RM	Master internal call-point with sounder / beacon - colour red
NXICSB -BM	Master internal call-point with sounder / beacon - colour blue
NXEC SB -R	External call-point with sounder / beacon - colour red
NXEC SB -B	External call-point with sounder / beacon - colour blue
NXEC SB -RM	Master external call-point with sounder / beacon - colour red
NXEC SB -BM	Master external call-point with sounder / beacon - colour blue
LOPB1	2 x ER34615 3.6V lithium D cell batteries

Continued >>>



Nexus - Internal and External Call-Points with Voice Annunciator / Beacon

NXICVB -R	Internal call-point with voice annunciator / beacon - colour red
NXICVB -B	Internal call-point with voice annunciator / beacon - colour blue
NXICVB -RM	Master internal call-point with voice annunciator / beacon - colour red
NXICVB -BM	Master internal call-point with voice annunciator / beacon - colour blue
NXECVB -R	External call-point with voice annunciator / beacon - colour red
NXECVB -B	External call-point with voice annunciator / beacon - colour blue
NXECVB -RM	Master external call-point with voice annunciator / beacon - colour red
NXECVB -BM	Master external call-point with voice annunciator / beacon - colour blue

Nexus - Internal and External Sounder / Beacon only OR Voice Annunciator / Beacon only

NXISB -R	Internal sounder / beacon - colour red
NXISB -B	Internal sounder / beacon - colour blue
NXIVB -R	Internal voice annunciator / beacon - colour red
NXIVB -B	Internal voice annunciator / beacon - colour blue
NXESB -R	External sounder / beacon - colour red
NXESB -B	External sounder / beacon - colour blue
NXEVB -R	External voice annunciator / beacon - colour red
NXEVB -B	External voice annunciator / beacon - colour blue

Nexus - Add-Ons and Accessories

NXFOB	Nexus mobile panic alert button with lanyard - 100m range
NXICP -BM	Internal call-point only (no circuitry) with master reset key - colour blue (Does not act as a repeater)
NXICP1 -BM	Internal call-point only with transmitter and master reset key - colour blue (Does not act as a repeater)
NXICP2 -BM	Master internal battery powered call-point with transmitter - colour blue (Does not act as a repeater)
NX-SMOKE	Wireless, battery-powered smoke detector
NX-HEAT	Wireless, battery-powered heat detector



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Designed and Manufactured in the UK

