GEOQUIP
WORLDWIDE
GROUP OF COMPANIES

The Leaders in Perimeter Security & Safety Solutions

OREP
FENCE CONTROL SECURITY

S
SENSOR
THE PORTABLE SECURITY COMPANY

TOTAL DEFENCE TO GO

R
ACTIVE INFRA-RED BEAMS

Divisions of Geoquip Worldwide Ltd

PREVENTION versus CURE?

Email: 24-7@geoquip.com
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The Leaders in Perimeter Security & Safety Solutions

Established in 1982, Geoquip Ltd objective was to bring a new level of professionalism to the whole industry of perimeter fence protection. In addition, Geoquip set out an ambitious mission from day one: to be a global leader in the industry. Quickly earning a reputation as a specialist in the design, manufacture and sale of electronic perimeter security systems, providing intruder detection capability on fences, walls, open ground, ornamental railings, or indeed any type of boundary separating secure areas from general access.

Today, Geoquip are recognised as a world leader in the design, development and manufacture of electronic perimeter intrusion detection systems. Geoquip products are now forefront of perimeter security worldwide.

In addition to supplying equipment for major international security projects, Geoquip has gained considerable experience in developing effective security systems for a whole range of applications: defence establishments, prisons and secure hospitals, ports, government institutions, retail and distribution depots, oil, gas and nuclear installations, airports and cross-country border posts as well as numerous blue chip companies.

Our successful global expansion has been due to the introduction of a variety of new and technically advanced products in key sectors including detection, detection/prevention, system management, command & control, instant & portable and permanent systems, delivering the total solution both to our existing customers and new clients.

The launch of the Geoquip Worldwide Group of Companies has taken the Geoquip brand from strength to strength. IFSEC UK 2007 saw the re-launch of Geoquip’s 40 year old company R.V. alongside newly acquired French company OREP and the leading portable security company, Sensor.

All 4 companies were promoted together under the distinctive Geoquip Prevention versus Cure Worldwide Trademark to generate a co-ordinated Worldwide group identity.

This global strategy is further enhanced by the expansion of the successful Strategic Alliances, now formed throughout Europe, The Middle East and the US in key sectors.

Our Mission:

To be the Leaders in perimeter security and safety solutions, offering our customers the highest quality and technologically advanced products with unsurpassed sales and service support, delivering Prevention versus Cure and total customer satisfaction.
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The Cost Effective Internally Mounted Wall Protection System

- Superior performance against Inertia sensors
- Provides detection of “Gross attack” to external walls
- Easy to install and maintain
- Complete solution available in kits for 25m, 50m and 70m

What is Impactor?

Impactor is a cost-effective intrusion detection system, designed specifically to respond to attacks on the walls of warehouses, storerooms, vaults and similar goods storage facilities. Vibrations caused by attacks, such as hammering, ram-raiding and chiselling are detected by Geoquip’s renowned linear magnetic cable sensor which is fixed to the surface of the wall to be protected.

The cable sensor incorporates a toughened outer sheath material which eliminates the need to install the sensor in a special conduit - a feature which other, less effective sensor systems usually require. Removing the need for a conduit also reduces the installation time greatly, making Impactor a truly fast-fix detection system, bringing about considerable cost savings for both the installer and end user.

How it works

Impactor is a significant advance in detection systems and supercedes older, more dated technology such as inertia switches and peizo-electric point sensors. In fact, it employs highly reliable electronic relays to give tried and tested intrusion detection without the false alarm problems associated with these older technologies.

What’s more, the sophisticated micro-controller technology ensures high performance and is used to analyse and process the signals from the cable sensor and simplify the adjustment and commissioning procedures.
The Proven Leader in Building Protection for Over 20 Years

- Designed to protect walls and roofs of buildings
- Provides an early warning attack, prior to entry
- Recommended by Police and Insurance risk assessors
- Intrinsically Safe system also available for Hazardous Environments

What is Guardwire?

For many years there have been designs and technologies which have attempted to emulate the detection capability of the Guardwire cable sensor. The superior design of Guardwire can be demonstrated when viewed more closely and compared with these other technologies. Firstly, the two conductor wires of the Guardwire cable sensor, together with the detection electronics are in fact two pseudo-detection systems.

How it works

This technique is called Dual Channel Signal Processing (DCSP) and means that the two most common types of attack to medium and low security walls and roofs - impact and sustained - can be independently adjusted without compromising each other. This is a key limitation of other systems, where adjustment of one attack detracts from the other, as they occur at different frequency ranges on the same sensing circuit.

Secondly, the magnetic design of the cable sensor works on exactly the same electrical principles as a speaker, which enables self-verification of an alarm condition via an audio output, which is truly an industry best.

Superior performance of the system is achieved by utilising the Alpha magnetic cable sensor as a detection device. The cable sensor, designed for the sole purpose of intruder detection, is manufactured by Geoquip in our production facility, operating to BS EN ISO 9001. This ensures the quality of the finished product and the support services you would expect from an industry leader.
What is Defensor?
The latest version of Defensor from Geoquip, provides the capability to effectively combine the advantages of its proven Alpha sensor cable technology with the physical delay factor and vibration transmission characteristics of the perimeter fence.

Defensor, in conjunction with the physical barrier provided by the perimeter fence, forms the first line against attempted intrusions. It is designed for applications on manned or unmanned sites, whether as a stand-alone single zone system or as part of a comprehensive multiple zone installation.

How it works
Perimeter detection systems employing Defensor will provide the earliest warning of intrusion attempts while simultaneously ensuring that false alarms are virtually eliminated. During the course of an intrusion attempt, security staff can monitor and verify intruder activity using the high quality audio produced by the Alpha sensor cable.

Defensor can communicate alarm information to many types of ancillary control room equipment such as CCTV, alarm management systems and mimic panels, ensuring that the control room staff are kept fully informed about the security status of the site.

The upgraded Defensor system complements and further enhances the performance of Geoquip’s Alpha sensor cable technology. This technology, independently verified by leading authorities as being technically superior to most other microphonic cable products, has formed the cornerstone of Geoquip’s envied reputation in the field of perimeter security detection systems.
What is PSICON?

PSICON, or Perimeter Security and Intrusion Classification system, has been developed as the leading edge solution for intruder detection on perimeter walls and rigid railing structures, where traditional detection systems have often failed.

It is the product of extensive research and development which has enabled technologies to be exchanged from secret military developments and applied to prestigious, heritage and high level security sites.

The result is a powerful match of sensor capability and signal processing power which allows cost-effective solutions to be applied to a range of specialist applications. The PSICON system is both sensitive and intelligent enough to be able to detect and identify the unique vibrations caused by an intruder climbing unaided or with a ladder over walls or railings.

How it works

While the system is detecting and identifying these activities, it simultaneously identifies the environmental noise and separates this out. This means that the detection rate is significantly enhanced and the false alarm rate is greatly reduced.

Each PSICON zone is made up of a detection string of robust seismic geophones or seismic detectors and a PSICON analyser. The geophones are discreet vibration sensitive devices, which can be used alone or with others to detect vibrations on the perimeter structure.

When PSICON is installed to protect walls and railings, the geophones are positioned to suit the style and aesthetics of the location. Individual zones are then created to take account of variations in the composition or structure of the wall or railing within the protected zone.
A huge variety of companies and organisations are finding themselves the targets of an ever-increasing army of opportunist thieves, career criminals, terrorists or just trespassers.

With RAFID, you have the security of knowing that you have done everything you can, with the best quality equipment, to make your perimeter as intruder-proof as possible.

Clearly, there is no shortage of technology and techniques available, all claiming to offer the best solution. There can be no single choice in deciding on the best available system for your company, simply because different techniques are better suited to different applications.

Geoquip is one of the very few companies worldwide which has developed the full range of technology required to offer complete detection for perimeters, regardless of the terrain and environment. Whether you need protection for open spaces or walls, fencing or buildings, Geoquip has the flexibility to provide you with the most suitable solution. One such system is RAFID.

**What is RAFID?**

The Radio Frequency Intruder Detection system is one of a range of technologies developed by Geoquip to offer complete protection in places where uninvited guests need to be discouraged. It is discreet and therefore ideal for proximity detection, where an intruder will walk unknowingly into its invisible field. The strategically placed transmitters and receivers will cover the vulnerable area with a blanket of radio frequency rays linked to an analyser.
At its heart, RAFID has two specially designed cables – one transmitting a radio wave, the other receiving that wave. Changes in the amount of signal passing between the transmitter cable and receiver cable are analysed by a signal processor which determines whether these changes are due to the presence of a human.

How it works

The system offers a great deal of flexibility, with individual cable positions being determined according to the customer’s needs and sited either on a solid object or buried a few millimetres underground. The aim is to create a man-sized area of radio waves acting as invisible barbed wire. Once the intruder enters this barrier, they will in turn signal their presence and generate an alarm.

Why choose RAFID?

The unique design of RAFID means that it is not affected by the environmental factors which can seriously reduce the effectiveness of other technologies. The design of the system ensures that it can withstand standing water, running water, waterlogged sites, rain, sleet, mist, hail, snow and fog.

Moreover, the need to respond rapidly to an intruder is obviously a key issue in any security system. The technology in RAFID allows it to operate adjacent zones on different channel frequencies, therefore avoiding interference problems between neighbouring zones.

This feature of RAFID’s overall signal detection system allows for overlap between adjacent zones. This eliminates any possible blind spots and means that any intruder activity will be quickly located within the protected perimeter.
The Rotating Anti-Climb Barrier

- Rotating blades integrating Geoquip ALPHA sensor cable
- Suitable for remote and manned sites
- Simple to install and cost effective
- Provides an all round solution to perimeter detection

What is Rotaguard?
Rotaguard is an advanced all-round detection system and anti-scaling barrier for walls, gates and fences, which is durable and easy to install. It provides an inexpensive, yet effective solution to property protection, at a time when property owners are legally responsible for injury to intruders.

The system incorporates Geoquip’s renowned Defensor detection system which alerts security personnel to any attempted intrusion and allows alarms to be verified by the unique ‘listen-in’ audio verification.

How it works
The unique design consists of a series of curved vanes, each of which revolves freely around a central shaft which has been modified to incorporate Geoquip’s Alpha cable sensor. The rotating vanes create an unstable barrier which moves if anyone attempts to climb over it. Moreover, because of the unique curved vanes, the intruder cannot try to overcome the barrier by covering it or jamming it.

The system is strong and durable, being manufactured from a technically complex high tensile alloy. It is also corrosion resistant and therefore suitable for areas vulnerable to pollution. In addition, this corrosion resistance ensures that the metal remains bright and maintains its deterrent effect throughout its life. The alloy is very lightweight and can therefore be used on mesh or even wooden fencing.

In addition to the standard finish, Rotaguard can also be supplied with black polyester powder coating and other colours on request. Simple to install, cost-effective and attractively designed, Rotaguard provides an all-round solution to perimeter protection.
The Unique Combined High Security Fence and Detection System

- The most cost effective, easy to install, total perimeter solution.
- Totally eliminates the need for cable ducting and civil works
- Three protective cable channels for power, detection and communication
- Superior performance

What is SensorFence?
SensorFence is Geoquip’s first integrated fence intrusion detection system. It is the first product that combines electronic detection with a physical fence barrier in a unique design which maximises the benefits of both fence construction and electronic sensor.

To achieve optimum performance, the mechanical properties of the fence have been carefully designed. They ensure that the frequency bandwidth of any intruder activity falls exactly within the frequency bandwidth of the sensor system. In short, any cutting or climbing of the fence will produce a maximum level of response from the sensor.

What’s more, this unique system ensures that even careful attacks on the fence are detected at minimum sensitivity levels, which also minimises the number of false alarms.

How it works
This breakthrough has been achieved by the unique method of attaching fence panels to the sensor cable carrier. This sensor cable and fence matching also means that installing the sensor cable on the fence is much quicker and easier. The sensor cable can be simply laid within the carrier, without the need for additional fixings such as cable ties or clamps.

In addition, cable trays can also be attached along the base of the secure side of the fence. This makes the installation of data and power cables much easier, which in turn enables a wide range of detection systems to be configured. These trays remove the need for any trenching and ducting that would be required to accommodate the cables.
The Flexible Security Topping “FST”

- Maximum anti-climb delay factor
- Incorporates Defensor ALPHA Sensor cable
- With spring steel and customised designed fitments
- Available with or without razor wire

What is FST?
FST (Flexible Topping System) is currently the most secure topping system available and is the work of an experienced high security design team.

FST is a registered design, fully tested and approved by Her Majesty’s Government for use in high security prisons in the United Kingdom. FST uses top quality, specially selected materials, and is manufactured to the very highest standards for long life and long-term reliability. All materials are galvanised, but stainless steel razor wire is recommended to give maximum service life.

How it works
At the heart of FST is a steel mesh fixed to a flexible steel bracket that is designed to move when people attempt to climb, upsetting balance and hand holds. The structure is designed to withstand a man’s weight, so the FST system does not collapse when climbed. Specially sourced spring steel and custom-designed fitments ensure FST is an investment for the long term.

- The FST/Geoquip system fully satisfies an original Home Office specification for anti-climb barrier with detection.
- Electronic Analysers process the signal and only alarm when a pre-programmed event occurs.
- Patented Sensor Cable offers wider frequency detection capabilities and linear characteristics leaving no weak spots.
- Two-channel Detection can be configured to detect cut and climb.
- Monitors individual zones - continuous monitoring of specific high security areas.
- Direct interface with CCTV systems - cameras operate as functional or static units.

Available with or without razor wire
The Razor Wire and Detection System

- Available in 30” and 40” diameter
- Incorporates Defensor ALPHA Sensor cable
- Substantial intruder/escapee delay factor
- High quality audio output and verification

What is Sensor Coil?

Sensor Coil 600 is a unique product which successfully combines a formidable physical barrier with a high performance intrusion detection system.

This patented design is flexible enough to be installed on open ground areas, buildings, walls, fences and roofs, but without needing to adopt the wide range of technologies normally required for such diverse applications.

The system incorporates the high performance Geoquip Alpha sensor cable, which is embedded within the concentric structure of a barbed tape security coil. This barbed tape construction ensures that any potential intruders or escapees are held up for as long as possible, while the integrated detection system signals the start of any hostile activity, enabling security personnel to respond rapidly.

How it works

The barbed tape coils are constructed in a concentric format, using high quality stainless steel. This ensures maximum mechanical reliability and exceptional corrosion resistance, even in the most hostile of atmospheres.

The barbed tape coils can be provided in both 30 inch and 40 inch outside diameters, each having the Alpha sensor cable integrated into the construction of the inner coil.

The Alpha sensor provides broad spectrum audio signals in response to any hostile activity which disturbs the barbed tape coils. This minimises the need for complex electronic signal processing techniques, which are required to enhance the performance of other poor quality cable sensor systems. The signal processing functions are provided by the Geoquip Defensor signal analyser, which has been specifically designed to operate with the Alpha sensor.
The Intelligent High Security Fence and Detection System

- Special noise prevention provides the best acoustic detection
- Perfectly matching mechanical and electrical components
- Special post system allows for easy installation
- Modular construction enables retrofitting

What is Intellifence?
The robust and tested steel cage fence of Intellifence meets the highest safety requirements. The fence panels can be raked to suit even steep ground slopes and the most difficult ground conditions. What's more, thanks to the mechanical security and electronic detection, the fastest possible detection time can be achieved. While the special noise prevention provides the best possible preparation for acoustic detection.

How it works
Intellifence works by transforming the vibrations caused by an intruder climbing over or trying to penetrate the fence into electric signals by means of special sensor cables. This also means that only one cable is required to reliably detect both climbing over and penetration activities. The tuned evaluation unit filters out any unwanted sounds too. This proven and tested sensor technology has a false alarm rate of less than 1%. In addition, the special design of the ALPHA sensor cable stops the sensor from responding to other signals, from high-voltage power lines for instance.

The beauty of Intellifence is that the mechanical and electronic components match perfectly. The special post system also allows for easy installation of the sensor cable, which is disguised and installed in the special U-profile of the fence.

Moreover, the modular construction of Intellifence enables a retrofitting of the detection system without taking away any of the advantages of integration. This means that Intellifence is also particularly suitable for coupling with video systems, control stations and burglar alarm systems.
The Non-Lethal Electric Fence and Wall Topping Detection System

- The visual, physical & psychological deterrent
- High and low voltage modes for flexibility
- Unique cross wire configuration for high security applications
- Approved to PAS 47 requirements

What is ElectroWire?
The ElectroWire range of electrified fence intrusion detection systems have the capability, not only of delivering painful yet harmless electric shocks, but also of detecting intrusion attempts and alerting security personnel to any of these kinds of activities.

Intruder detection capability, combined with the psychological deterrent of receiving electric shocks, make ElectroWire a highly effective solution for perimeter protection applications.

How it works
Two energiser models, ElectroWire and ElectroWire IP, offer a comprehensive range of features and configurations. This choice of systems means that ElectroWire can meet the requirements of a number of different applications and client budgets. Both ElectroWire systems provide common features including ac or dc power source options, internal battery back-up and simple high voltage connections.

In addition to the range of functions offered by each system, Geoquip alone provides a choice of electrified barrier configurations so that the particular requirements of the site and the needs of the customer are fully met.

The primary requirement may well be a physically robust electrified barrier to provide full protection against intruder attack. In this case, a conventional barrier construction comprising multiple horizontal runs of steel wire may be employed.

If however, the highest chance of intruder detection is the most important requirement, then Geoquip’s patented ShockWeave barrier configuration may be more appropriate.
The Centralised Processing Control Solution

- Rack mountable electronics in secure control room
- Zone sensitivity adjustment via “class A’ PC
- Integratable to 3rd party technologies
- No power requirements in the field

What is CentrAlert?

CentrAlert is the only system which gives security designers the wide ranging, technically excellent solutions they demand. The open architecture embodied in the design of CentrAlert allows Geoquip the freedom to offer a range of system configurations to meet your requirements in the most effective way.

How it works

At the heart of CentrAlert is the detection engine, which is a centralised module housed within the plant or control room of the site. The module contains all the hardware needed to perform the analysis of every alarm activation.

The detection engine is based on a secure embedded system architecture, which provides sophisticated but highly reliable digital signal processing without any of the risks of viruses or other disruptions which a non-embedded platform may suffer.

The detection sensors located on the site perimeter, are connected to the detection engine and allow for up to 2.5km separation between the sensors and the control equipment.

The control computer is connected to the detection engine and has datalog management software which allows access to all of the system functions and provides a powerful, yet easy-to-use, interface for the operator and engineer alike. The computer can also control other site equipment such as access control, video multiplexers or camera controllers, with comprehensive features which allow the automatic switching of other equipment in response to alarm events.
The Multi Zone Fence Mounted Alarm Processor

- Two or four zone detection options
- Network integration for large perimeters
- Peripheral inputs and outputs
- Easy upgrade path to Geoquip Gthernet

What is MicrAlert?

The MicrAlert detection system can be fitted to a variety of fence constructions and provides a maximum protected zone length of up to 250 metres.

It offers up to four independent zones of microphonic cable detection each providing a widely configurable range of outputs for alarm, tamper, pre-alarm and faults. In addition, there are three independent signal processing channels per zone allowing the detection of cut, climb and hacksaw activities.

It also provides four additional dry contact monitoring inputs allowing the connection of alternative detection systems. Alarm verification is provided by an audio output which is automatically activated when a sensor zone is set off. Alternatively, the audio output from any of the sensor zones can be manually selected. Indeed, Geoquip’s world-famous audio clarity is fully demonstrated by the MicrAlert analyser system.

How it works

What’s more, the MicrAlert analyser can also be operated remotely using the on-board RS232 serial data link. This can be used to monitor system status and to adjust a variety of system settings including sensitivity, event counts and time window. Alternatively, local control system status is signalled by dry relay contact outputs with system adjustments being made using either the on-board operator display and push button controls or by the optional plug-in hand-held controller. Both the onboard operator display and the handheld controller are password protected to prevent any unauthorised changes to the system.

Standard Configuration

High Security

Note: High security option for automatic sensitivity adjustment in case of sabotage on lower sensor
What is MicraNET?
MicraNET is an RS485 based communications system that suits the middle-market requirement in terms of capability and functionality. It will allow many nodal points around a site perimeter, along a pipeline or in a building, to be inter-connected together to collate this alarm information back to one central hub. At the hub, a Security Management System can be used to annunciate this information to security personnel that can, using the same system, send control command actions back down the MicraNET system to activate devices and equipment in response to a given situation.

The Security Management Software can still be in a multiple station arrangement operating with migrating server principle and furthermore, integrate on a wider scale with Geoquip’s Gthernet communications system.

How it works
The key benefits to MicraNET are that it utilises RS485 twisted pair cabling. This is very resilient and hardwearing and has been tried-and-tested in the industry for decades. This means that choosing Geoquip’s detection equipment cannot be easier since any installations with old RS485 infrastructure can be modified to work with the MicraNET nodes. Moreover, adding a GeoLog front-end, based on the RS485 retro-fit, means that you are bringing your security solution right to the forefront of modernisation, without destroying your old communications network.

MicraNET employs a special encrypted protocol between the nodes and the base controller so exposure to sabotage is at a minimum and also, all devices are monitored constantly, so the first sign of intruder tampering will be detected and displayed on the Management System.

The Geography of the installation does not matter with MicraNET. You can arrange the system as a loop, giving you extra data redundancy, have a single bus structure, or even have spurs and branches as much as you wish. The eventual distance limitation only applies when you cannot transfer the data at a suitable bandwidth to your requirements.
The Ultimate Integrated Security Management Solution

- Linux Operating System
- Full Redundancy Capability
- Distributed Server Architecture
- Enterprise level integrated solution

What is GeoLog?
The GeoLog security management solution successfully integrates the comprehensive range of detection systems already produced by Geoquip, with a range of other security support technologies such as CCTV and access control systems.

GeoLog has been developed following extensive feedback from clients in a variety of perimeter security market sectors. These include prisons, armed force protection, border security, police, oil and gas installations and pharmaceutical companies, all of which have a need for highly secure perimeter protection systems.

How it works
This feedback made it clear that both reliability and stability of the operating system was of paramount importance to clients when selecting and operating this kind of system. GeoLog therefore uses the Linux operating system which offers enhanced reliability, stability and security compared with Windows-based operating platforms.

In addition, GeoLog has a full redundancy capability which uses multiple communications links to maximise the effectiveness of the system even after catastrophic hardware failure.

GeoLog can also use the existing TCP/IP network links to minimise installation costs. Moreover, the way the system responds can be instantly altered in response to changes in the level of security required, for instance, changes in threat levels, night/day transitions, weekend transitions or specific time and date periods.

GeoLog offers a high level CCTV integration which allows automatic control of the CCTV system, as well as three-dimensional graphical imagery which gives operators a clearer picture of any activities taking place.
The Ultimate External IP Communication Network System

What is Gthernet?
Gthernet is the ultimate external communication network system. A single cable secure IP network solution, it works in extreme conditions from -40°C to +80°C, carries CCTV and audio verification and integrates and incorporates all Geoquip detection systems.

Ethernet and IP networking is rapidly becoming the standard for all communications ranging from VOIP telephony to remote internet CCTV monitoring. In the security industry, all system components including detection devices and access control equipment, are increasingly available in an IP-capable format.

How it works
Gthernet takes advantage of this global trend but is specifically aimed at critical security applications. It is ideally suited to multi-site perimeter protection. An oil or gas installation, for example, may have a central processing plant as well as remote pumping stations and storage facilities, each of which needs perimeter protection. Gthernet provides this versatility, being able to protect any number of individual sites within an integrated communications network.

In addition, Gthernet provides a high level of redundancy. If the network infrastructure is disrupted, the system provides multiple alternative data routes to allow the system to self-heal until the damaged communication paths have undergone repair. Using GeoLog, Gthernet is also ideally suited to installations with multiple control and monitoring stations. It can transport the security data to any number of operators simultaneously or on a time-share basis, making it the perfect solution for manned and unmanned sites alike.
High Speed CCTV IP Communication Network

- High speed, high capacity 10 Gbit/s data transfer
- Capable of supporting 5000 simultaneous D1 resolution CCTV cameras
- Command and Control an airport or a whole city
- Industrial specification -40°C to +80°C

What is 10G VISION?

Ethernet and IP networking is rapidly becoming the standard for all communications ranging from VOIP telephony to remote internet CCTV monitoring. In the security industry, all system components are increasingly available in an IP-capable format, be they detection devices or access control equipment.

Multi-site Perimeter Protection

Ethernet 10G VISION takes advantage of this global trend but is specifically aimed at critical security applications. Ethernet 10G VISION also provides a high level of redundancy, if the network infrastructure is disrupted, the system provides multiple alternative data routes to allow the system to ‘self-heal’ while awaiting the physical repair of the broken paths by the user. Based on any number of multiple ring structures, Ethernet 10G VISION is ideally suited to multi-site perimeter protection. An airport, for example, may have a central command and control room as well as remote stations and storage facilities, each of which needs perimeter protection. Ethernet 10G VISION provides this ‘topological versatility’, being able to protect any number of individual sites within an integrated communications network. Through its high speed, high capacity data transfer and the ability to support up to 5000 CCTV cameras, Ethernet 10G VISION gives you the facility to protect anything from an airport to a whole city using a ring or bus network installation eliminating the requirement for point-to-point CCTV fibres.
Multiple Control and Monitoring

Gthernet 10G VISION is ideally suited to installations with multiple control and monitoring stations - it can transport the security data to a number of operators simultaneously or on a time-share basis, making it the perfect solution for manned and unmanned sites alike.

High Speed IP Communication

Depending on the volume of data to be carried by the system, Gthernet 10G VISION can provide up to 10Gbit/s (850 Mega Bytes per second) data rates as appropriate, and multiple data paths allow this to be maintained if attacked. Gthernet 10G VISION can interface seamlessly with third-party Ethernet/IP networks such as LANs, WANs or the internet, allowing genuinely remote monitoring of the perimeter.

The Solution to Large Scale Camera Installations

Both BNC PTZ Old Style Cameras supporting D1 resolution at 25FPS and modern IP Ethernet cameras are supported and integrated into the Gthernet 10G VISION network topology. Being one of the most modern networking security architectures in the world, Gthernet 10G VISION can solve the problem of and offer a solution to large scale BNC camera installations without having to change the cameras to an IP range because of an Ethernet based system. With a data rate latency of just 400 milliseconds no matter how large and how busy the data throughout, Gthernet 10G VISION supports small, medium and large scale systems integration for PIDS, access control, CCTV and audio verification equipment.

As standard, the level of encryption employed will secure your data regardless of the intrinsic lack of security normally provided by third-party networks.
RV Limited (Radiovisor) made history in 1927 with the invention of the first ever infra-red beam. This technology was used to protect the Shah of Persia’s jewels at an exhibition in 1929. What followed were many years of developing and manufacturing photoelectric products for the industrial and security markets.

On the 1st May 2003, Geoquip Limited, the leaders in perimeter security & safety solutions, acquired the RV Limited (Radiovisor) business to compliment their own products with a range of reliable and well known active infra-red perimeter barriers and detectors.
High Beam Barrier Protection System
Provides an ideal solution for irregularly shaped perimeters

- Optical beam pattern for high level intruder detection
- Robust tower housings from 1-4 metres high
- Pre-wired towers for ease of installation and cost savings
- NATO approved

What is Perimbar
Perimbar is specified throughout the world as the first choice for perimeter protection in a variety of commercial, governmental and domestic applications. It is an external infra-red beam detection system available in virtually any size with a range of up to 150 metres.

The securing of attractively landscaped or environmentally sensitive areas calls for an intruder detection system which is discreet, highly effective and free from false alarms. What’s more, when it isn’t aesthetically desirable or cost-effective to secure large expanses of open ground with either fencing or walls, Perimbar’s advanced electronics can be tailored to provide the ideal solution.

How it works
Perimbar uses attractive and robust towers containing transmitters whose energy is collected by receivers up to 150 metres away. When an intruder breaks these beams an alarm is set off. Where a physical barrier already exists, Perimbar may be effectively deployed either on top or just inside the perimeter and has many features which make it a secure choice for these situations.

Unlike passive detectors it cannot be covered, masked or inadvertently blocked without setting off the alarm. Any attempt to scale the unit will immediately be detected either by the sensitive internal beams being breached or by the cleverly designed anti-climb-over top cap being activated.
All infra-red external beam systems have the advantage of being immune to masking and offer cost-effective external detection. Perimbar goes much further in its protection, with its unique Synclink and optional sync line monitor.

Synclink means that individual receivers will only respond to their own transmitters. This avoids interference between units allowing for closer beam spacing. It also provides an ideal solution for irregularly shaped perimeters.

For greater security it prevents an additional transmitter being inserted to overcome the system. It also has a unique feature in allowing a transmitter at the bottom of a tower to be directed at a receiver at the top of another tower to overcome the effects of undulating ground.

In other words, Perimbar offers significantly higher security and is the only system capable of working effectively with uneven ground and unusually shaped compounds. Sync line monitoring adds another level of security by generating an alarm condition if the Synclink signals are interrupted.

Perimbar is also unique in that it is available in virtually any size from one metre upwards. In fact, columns as tall as ten metres have been successfully installed. This feature coupled with a special anti-climb-over top cap makes Perimbar many times more secure than its competitors.

Perimbar’s other main advantage over its competitors is its modular construction which allows beams and their associated heaters and other modules to be fitted in virtually any configuration, allowing you to space the units for maximum security. Indeed, Geoquip has installed Perimbars with beams every 150mm - a configuration unmatched by any competitive system.

In common with all other RV infra-red beams, Perimbar has exceptional immunity to false alarms caused by sunlight, air turbulence, objects moving adjacent to it and the effects of RFI.
Beam Barrier Protection System
Provides an ideal solution for irregularly shaped perimeters

- Synchronised and multiplexed beams
- Alarms can be configured for interruption of one, two or three beams
- Configuration by on-site or remote PC
- Integrated alignment tools for one person set-up
- Centralised configuration of all towers using Geobus hub

What is Perimbar Plus

Perimbar Plus is a high performance external detection system. Its infra-red barriers create an invisible wall that is impossible to cross without triggering an alarm. It is possible to install up to sixteen parallel single beams that are synchronised and multiplexed.

By connecting them to a PC or a dedicated terminal, each set of columns can be configured (operating mode, response time etc). Settings can be adjusted according to site requirements and configuration can be performed remotely.

Real-time storage of 100 most recent events allowing for identification of recent alarm history.

By networking the barriers with the Geobus hub, wiring can be simplified, and viewing, configuration and diagnosis of the system can be carried out locally or remotely.

The modular rugged design and ease of use of Perimbar Plus’s infra-red towers means they can be installed on a variety of sites:

- Sensitive sites, i.e. military installations, power plants, prisons etc.
- Distribution centres
- Public spaces, i.e. subways, airports etc.
- External buildings surveillance
- Extreme environments, i.e. desert and sea shore locations
Geobus Network

The Geobus hub is the network administration of the Perimbar Plus barriers. It comprises of a transponder module in each receiver column and a hub installed in the equipment room near the alarm control room.

Geobus can be connected to a computer for programming, diagnostics and review of the events recordings. It can be connected via modem or Ethernet network to remotely administer operation of the infra-red columns. All configurations that can be performed locally at the tower can also be performed remotely once initial alignment is achieved.

Perimdata Configuration Application

Perimdata is the application used to configure settings for Perimbar Plus barriers and settings for the Geobus hub.

Perimbar Plus
- Configuration of transmitter and receiver towers
- Barrier adjustment
- Readout of beam status
- Review of receiver tower events logs

Geobus
- Network installation
- Assignment of alarm switches
- Real time viewing and configuration of setting for Perimbar Plus receiver towers wired to the network

An Extensible System for Greater Efficiency and Ease of Operation

Drawing on its years of experience in the field of intrusion detection, RV offers a powerful, extensible system for the protection of sensitive sites:
- Intelligent infra-red Perimbar Plus barriers with computerised internal adjustments.
- Geobus network for management of installed barriers. Local or remote network access for diagnostics.
Single Beams

**Active Infra-Red Micro Beam**

The indoor Micro Beam is housed in an inconspicuous and aesthetically pleasing white enclosure, making it ideal for many commercial or residential window and door applications. The beam has an adjustable power output to give a maximum internal range of 20m.

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**GVM20 Active Infra-Red Beam**

The GVM20 pulse modulated infra-red intruder detector is designed for outdoor and indoor applications and is ideal for residential, commercial and industrial applications. It can be used to protect driveways, approach roads, factory gates or indoor areas, such as hall, corridors or windows.

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**GVM125 Active Infra-Red Beam**

The GVM125 incorporates a number of sophisticated specification features, such as an adjustable optical module, LED memory latch, high immunity to sun, RFI screening and a beam interruption detector. The range of 175m is achievable even when only 25% beam energy is utilised.
GVG90FL-EX Active Infra-Red Beam

The GVG90FL-EX comprises of a transmitter unit and a receiver unit, and is actuated into an alarm state when the invisible ray between the transmitter and receiver is interrupted. Designed for outdoor applications and hazardous areas, the GVG90FL-EX provides low cost protection for a long range of coverage, not easily achievable by other forms of detector devices.

Active Infra-Red Twin Beams
(GVTB Series)

The GVTB series of twin beams provide excellent performance both internally and externally. Each set contains twin transmitters or receivers for enhanced reliability from false alarms and come with a unique laser beam alignment function.

Detection ranges: 30m, 60m, 80m, 120m.

Active Infra-Red Multi Beam
(GVMB Series)

The GVMB Series of dual beams complement the RV range of infra-red detectors. They provide the ideal solution for external detection situations where reliability and freedom from false alarms is of paramount importance. The MB series now come with enhanced leading edge features including anti-crawl detection, adjacent beam intelligence and a one man alignment strobe.

Detection ranges: 50m, 100m, 150m and 200m.
Dual Beams

Active Infra-Red Coded Multi Beam (GVCMB Series)

The GVCMB Series provide eight codes for multi-beam stacking or ‘dog-leg’ zone applications. The individual codes are used to self synchronise the beam sets, eliminating the need to run cables between transmitter and receiver units. The CMB series now come with anti-crawl detection, adjacent beam intelligence and many user selectable features.

Detection ranges: 50m, 100m, 150m and 200m.

GVIRV150 Bi-Axial Infra-Red Beam

The GVIRV150 is a stand alone dual beam system suitable for internal or external applications. The new IRV150 has integral fog detection and enhanced anti-crawl detection. The IRV150 is ideal for applications where stand alone beams are required up to a distance of 150m.

Intelligent Battery Operated Multi Beam Set

The 9V d.c. low current active infra-red multi beam set consists of a dual optic transmitter unit and a receiver unit, each powered by six integral 1.5V ‘C’ type batteries. When used in conjunction with a radio alarm system, the set would provide a wire free installation for rapid deployment, making it the ideal solution for driveways, outbuildings and remote locations where power is unavailable.
Quad Beams

Active Infra-Red Quad Beams
(GVQB Series - Available September 2007)

The GVQB series of Quad Beams provide excellent performance in the most hostile of external environments. Units are available with 4 beam selectable channels for stacking with integral fog detection and an audible alignment feature.

Detection ranges: 30m, 60m, 80m and 120m.

Towers/Accessories

Winguard Multi Infra-Red Beam Barrier

Intruder detector barrier for mounting inside windows, across doorways, entrances to hazardous areas or roof lights. Winguard comprises of 2 slim profile aluminium housings containing a number of IR beams with output contacts for tamper and alarm.

Infra-Red Multi Beam Tower

Suitable for internal or external environments, up to five synchronised GVMB or GVCMB series dual beams can be fitted, effectively providing a configuration of ten beams per zone. Unlike many competitors’ beam towers, beams can be mounted back to back providing detection at the same height in two directions. For extreme environmental conditions, heaters, thermostats and fog discrimination modules are available.
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The Leader in Perimeter Security & Safety Solutions
It’s an unbeatable combination. Sensor specialises in the instant and portable perimeter solutions market while Geoquip, our parent company, is a world leader in permanent perimeter solutions.

Together the two companies can offer a simple one-stop shop for all your perimeter security solutions. From protecting a building in its initial construction stages, to high value assets stored in a temporary location to permanent perimeter protection.

Sensor’s core product range uses Passive Infra-Red technology to detect intrusion into a protected area. Our detectors respond to rapid thermal changes in the field of view that human intrusion produces. Our detectors can be used both indoors and outdoors to reliably detect heat and movement under almost any environmental conditions.

State-of-the-art technology combined with our in-house designed electronics and software, plus over 15 years of expertise, enables us to come up with market-leading, portable security products designed specifically with you in mind.

As the security market grows and diversifies, so does Sensor. We have successfully delivered a number of projects where cameras are the core product. These cameras range from the standard pan and tilt CCTV systems through to night vision and thermal imaging cameras, all of which can be seamlessly integrated with other products in the sensor range.

Every business and organisation has assets worth protecting. With Sensor you can sleep easily in the knowledge that our systems are operating 24/7 and will not let you down. They are completely portable and can be moved without installation or extra cost to the most vulnerable areas at a moment’s notice.
AutoGuard

Portable Intruder Detector
Provides a precise, expandable solution to all security needs

- Detector range: 30 metres in a straight line
- Supplied with a durable, lightweight, waterproof case for easy deployment
- Detection heads may be used both internally and externally and are rated IP66

What is AutoGuard
If you want a system that’s economical, quick and easy-to-install and can be used practically anywhere, choose AutoGuard. It’s the covert portable intruder detection system which needs no specialist knowledge and minimal training to use. Yet it provides a precise, expandable solution to both indoor and outdoor security needs.

AutoGuard consists of a central monitoring unit with eight wireless detectors which are designed to be used both internally and externally. The detector heads have universal fixings which allow them to be covertly positioned in virtually any environment from woodland and undergrowth to jungle, desert and urban conditions.

How it works
The active alarmed zone covered by each detector is 30 metres in a straight line and from ground level up to the height of the detector head and a width of 3 metres at the 30 metre detector range.

When a human intrusion is sensed, an alarm is transmitted to a mains-powered monitoring unit. This is a lightweight base station that can be sited at any central point within range of the AutoGuard detectors. The monitoring unit allows the user to pinpoint the exact area of penetration via an LED display and adjustable warning sounder.

Like all Sensor Security systems, AutoGuard is designed to be fully integrated into a wider security network activating external alarms, VCR or CCTV surveillance systems. The system can incorporate up to 64 additional detector heads and the StealthGuard hand-held monitoring unit. It can also control other security systems, including vibration sensors, smoke alarms, door contacts and personal panic alarms.
StealthGuard

Intruder Detector for Patrol
A top of the range specialist covert system

- Detector range: 30 metres in a straight line
- Basic system comprises eight independent, wireless detector heads and a compact handheld monitoring unit
- Audio alarm also delivered through an earpiece

What is StealthGuard

StealthGuard is our top-of-the-range specialist covert system designed to be used by bodyguards, patrolling guards or military personnel for ultimate protection in any environment. It's a simple and power-packed system built for fast deployment and expandable protection for use by anyone. StealthGuard is a specialist version of our market-leading AutoGuard Intruder Detection System.

StealthGuard can be quickly and easily deployed from a briefcase or body-worn ammunition-style pouches. It comprises a hand-held monitoring unit and eight rugged, palm-sized Passive Infra-Red detectors which can be covertly positioned using universal fixings in virtually any environment.

How it works

LED indicators on the monitoring unit pinpoint the exact area of penetration of the covered zones. StealthGuard also delivers an additional audio alarm via a covert earpiece that instantly alerts the user to any unauthorised activity.

The active alarmed zone covered by each detector is 30 metres in a straight line and from ground level up to the height of the detector head and a width of 3 metres at the 30 metre detector range.
Sentor

GSM or Radio Equipped Intruder Detector
An excellent, proven and reliable stand-alone system

- Twin passive infra-red detection heads giving a range of 40 metres
- All weather system with a hooded window to minimise the effects of direct sunlight
- Unique user-set voice messages transmitted either via VHF, UHF radio or GSM

What is Sentor

Sentor gives you instant peace of mind and instant security from the boardroom to the battlefield. Like all of Sensor’s security products, Sentor is portable so it can be used almost anywhere. You just decide what you want to protect and when and it’s so simple to set up you can do it in minutes.

This proven and reliable stand-alone solution also has the flexibility to be integrated with your existing security to activate other systems such as hard-wired systems, security lighting and CCTV.

How it works

Sentor is a unit approximately 127cm high with twin PIR heads each covering a 40-metre zone and incorporating a microprocessor control unit. When the unit detects an intrusion it uses either radio or GSM mobile phone technology to transmit messages to the user - not the intruder. Sentor is designed specifically for use by non-technical personnel in a variety of environments, either temporary or permanent.

The unique user-set voice messages are transmitted to the guard or control room to warn of an intrusion the moment it happens. Because it can be linked to other systems, a range of options are available, such as capturing the intruders on video or setting off loud audible warnings, wider security network activating external alarms, VCR or CCTV surveillance systems. Further detector heads and monitoring units may be added as required, making Sentor one of the most expandable and flexible intruder detection systems on the market today.

The Annunciator Unit provides a remote link from the Sentor(s) in the field back to the office or Control Room. The unit interfaces with a laptop computer that uses bespoke Sensor Mapping Software to display various information and parameters for each Sentor Unit being used. (See page 43 for further information about the Annunciator)
What is SensorLite

SensorLite is the next generation of CCTV system, the lightest and most portable ever, whilst retaining outstanding strength and stability. Field trials have shown it to be the most user friendly system on ease of use and transportation. The hydraulic action of the mast means it can be erected anywhere.

How it works

The mast is fully anodised and corrosion proofed. The mast can be used on varied terrain as a result of its uniquely designed feet which can be secured at different heights (each to a 15 degree inclination). The light alloy body, complete with accessories, achieves a total system weight of approximately 30kg. After use, the mast easily folds into a compact unit and comes complete with its own carry bag.

The wireless link transmits to the monitoring unit up to 4 kilometres away, and is fully encrypted. The self-contained monitoring unit has its own software, telemetry and six channel DVR, so six cameras can be monitored at once.

Machined from solid aluminium, the SensorEYE 2000 is an armoured dome camera with a very high specification. It’s particularly suitable for hostile environments where the likelihood of physical attack demands a robust solution.

SensorLite case

Lightweight Rapid Deployment Camera

SensorLite is the next generation of CCTV system - the lightest and most portable ever. The lightest and most portable ever.
**SensorEye Illuminator**

**Rapid Deployment Camera System**

The most advanced self contained monitoring unit

- 2.4 GHz or 5.3 - 5.8GHz fully encrypted wireless link and 4km line of sight
- No tools required for deployment
- Self contained monitoring unit built into case

**What is SensorEye Illuminator**

This rapid deployment camera system can be deployed quickly and easily and then monitored remotely. It has day and night capability, with an LED illuminator for crisp night vision. No tools are needed to erect the mast, which gives outstanding vision from a 4 metre vantage high point.

The wireless link transmits to the monitoring unit up to 4 kilometres away, and is fully encrypted. The self-contained monitoring unit has its own software, telemetry and six channel DVR, so that six cameras can be monitored at once.

**Mast**

A sturdy and very stable mast weighing 110kg and can withstand wind speeds up to 65 mph unballasted. The mast has illuminated controls and instructions. It is self extending and has self levelling stabilisers.

Optional rough terrain trolley is available.
Prevention versus Cure | Detection

**SE2000**

Machined from solid aluminium, the SE2000 is an armoured dome camera with a very high specification. It’s particularly suitable for hostile environments where the likelihood of physical attack demands a robust solution.

Ideal for protecting a remote site, the monitoring and control takes place via a portable briefcase or by linking to an existing camera network. You can also have an additional interface with the AutoGuard portable intruder detection system to provide complete area protection capability. The camera transmits to the remote monitoring unit with colour monitor and integral telemetry and keyboard. The SE2000 also boasts a ballistic-tolerant weatherproof housing, 460 TVL colour, optical zoom 18:1 and automatic colour/mono switching.

**Secure Wireless Video System**

Robust, highly reliable spread spectrum wireless link. Frequency, licence exempt, 2.4GHz or 5.3 - 5.8GHz. 128 bit AES built in encryption with auto key rotation. Built in telemetry control with full pan, tilt and zoom capability. Transmission range 4km line of sight. Distance can be increased by the use of repeaters.

**Solid IR Array**

LED technology provides an answer to the nightmare of IR bulb replacement, enabling the system designer to incorporate a highly effective CCTV IR illumination system, which combines low running costs with reliability and performance.

Our LED IR incorporates 320 high performance infra-red LEDs (light emitting diodes) generating a powerful long range IR illumination with a uniform wide beam angle. This highly compact product is specifically designed to operate with our range of the latest generation IR sensitive Xwave (extended wavelength) XDR CCD cameras.

**UPS Battery Pack**

Sensor’s UPS Pack comes built into a Peli 1500 Case with IP65 connectors and complete with mains supply (110/220 VAC) and output cables.

This Portable Power Pack is used with our Portable Monitoring Units and our SensorLite Camera System. When fully charged it can be used as a stand-alone Power Pack or where there is a main available, be used as a back up source when mains power is lost or interrupted. The unit is very simple to use and can be set up in seconds, no tools required.
Guard Post

High Vantage Point Surveillance System
Fully portable intruder detection system

- Takes one person under 20 minutes to deploy this system
- Provides a combination of video and audio features for a ‘round the clock’ security system

What is Guard Post

Guard Post is a portable CCTV high vantage point surveillance system. Designed for use in all weathers, only one person is needed to set up the system quickly and easily wherever it may be needed and, because it has quick release brackets, it’s just as easy to reposition.

The camera equipment is fitted onto a special light alloy telescopic mast (pneumatically operated).

The Guardpost camera system is built up of a very powerful long range zoom lens coupled to a high resolution Colour/Black & White Camera. The unit will change from Colour to Black & White automatically as the light decreases.

All PT&Z controlled from its own dedicated keyboard.
Annunciator complete with Laptop

The Annunciator Unit provides a remote link from the Sentor(s) in the field back to the office or Control Room. The unit interfaces with a laptop computer that uses bespoke Sensor Mapping Software to display various information and parameters for each Sentor Unit being used.

The system uses a chosen UHF/VHF frequency coupled with a ‘Tone’ which uniquely identifies each Sentor unit and is then displayed graphically onto a scaled aerial map of the area, building or site plan.

The system comes complete with its own attachable high gain antenna and is built into a rugged carry case and can be quickly deployed.

Portable Recording Briefcase

An all-in-one surveillance briefcase, which has everything you need for portable covert or overt surveillance. It has a high resolution TFT screen built into the case and can record from up to four cameras. Ideal for anti-social behaviour monitoring, it produces prosecution quality images.

SensorMax

The SensorMax executive security system comprises two pocket sized detector heads, complemented by an equally compact control and monitoring unit. This control device is designed to be fully portable and offers instant, discreet notification of a security breach wherever you may be.

The system uses an audible sounder unit which amplifies the alarm. Designed for covert and overt use and packaged in its own personal travel bag, SensorMax is designed with the executive traveller in mind.

Covert Cameras

A range of wireless covert cameras disguised in everyday items, for occasions where surveillance really must be hidden. Cameras are hidden in mobile phones, cigarette packets, jewellery, buttons and screws. Images can be transmitted to a screen or recording unit.
Orep was founded in 1972 by M Jean Marc Mazoyer. During the phase of the French electro-nuclear program, Orep specialised in the design and installation of perimeter protection systems. Mr Mazoyer subsequently left the Orep organisation which was then taken over by MAS, managed by Franck Narbonne.

Introduction to the company: Since its creation Orep has manufactured fences, gates and anti intrusion detection systems. The company can offer the sale and installation of equipment, and even implementation of a complete system.

Orep’s mission is to assure both in France and its Export markets, the realisation of projects integrating its key technologies, for the surveillance and protection of industrial or military sites at risk.

We offer our customers a wide spectrum of products and services, depending on their individual needs and requirements, including:
- physical protection infrastructures – heavy fences, defence networks, gates & barriers and turnstiles, pedestrian & vehicle control
- external intrusion detection systems – detection fences & barbed wire detection systems, alarmed trap wires, high voltage electric fences, fence posts & grills incorporating intrusion sensors, perimeter detection fences, microwave & inra-red beams and movements sensors
- Alarm supervision – installation of video surveillance systems, systems for event identification & scene memory and tranmission & central station management systems
- Intervention – system sales & technical support, installation & commissioning of specialised equipment, driving a turn key project from design stage through to completion and site trials.

Our diverse product range has allowed to work within many industry sectors including industrial installations, laboratories & testing centres, petrochemical sites, airports, nuclear sites, high voltage electrical sites, military zones & ammunition dumps, prisons and borders, delivering solutions tailored to customers individual requirements.
Fence Detection Against Cut Attack

What is PeriStop

The PeriStop detection wire consists of an isolated conductor integrated inside a stainless steel or galvanised tube. All the wires from a section are connected to form a current loop which makes up an alarm zone.

The PeriStop fence consists of a vertical net which is installed either on a fence or behind a fence. Each zone is connected to a control unit which continuously monitors the state of the loops. Cutting a PeriStop wire causes an alarm.

The upper part of the fence is protected by breakable bent arms which are mounted on the fence support posts. The arms are breakable in two directions, from exterior to interior and interior to exterior. Force applied from an attempt to climb over the structure will collapse these arms and will cut the PeriStop wire, causing an alarm.

These arms are made from stainless steel.

- Standard lengths: 0.60m, 0.90m, 1.00m
- Standard models: vertical, inclined or double
- Different models available on request
- External buildings surveillance
- Extreme environments, i.e. desert and sea shore locations

The alarm zones are connected to junction boxes mounted on the fence. Each box handles 2 alarm zones. These boxes and the connectors are constructed from stainless steel.

- Analyser unit: 2 zones per analyser
- Analyser circuit monitors 2 alarm zones
- Modular assembly
- LED alarm signalling
- 12v/1A power supply

CONTROL UNIT

The centralised control unit monitors the loop, and protects against excess voltage and power. Alarm information is by dry contact or IP contact on request.

Power supply: 230Vac, 12Vdc, 24Vdc or 48Vdc

Current consumption: 1VA per alarm zone

Control output: volt free

Alarm contacts: normally closed

Operating Temperature: -40 C to +60 C
Fence Detection Against Cut Attack

- Cut/climb detection
- Shunt detection
- Reliability: very low false alarm rate (less than 1 alarm/year per Km)
- Probability of detection greater than 99.9%
- Modular alarm zones

What is PeriFence

The system comprises of a rectangular weld mesh fence whose horizontal tubes are lined with a detection wire creating an electrical loop.

This perimeter detection system is therefore entirely integrated into the fence and completely invisible. The detection wire consists of a screened mono-conductor and all the detection wires are installed and connected to create a current loop, which constitutes the alarm zone.

The fence creates a vertical barrier which can not be defeated.

The system is equipped with breakable bent arms, which enable the detection of attempts to breach the upper part of the fence. These arms are mounted on support posts of the fence and are breakable in two directions, from exterior to interior and interior to exterior.

A force applied by an attempt to climb over the structure will collapse these breakable arms and subsequently cut the PeriStop wire, causing an alarm.

The system is monitored by an electronic control unit.

Each zone is connected to the control unit which continuously monitors the state of the loops. (Continuity monitoring, current drop and short circuits). Cutting a detector wire will cause an alarm.

An alarm is activated when:

- An attempt is made to climb over the fence
- The fence is cut
- Wrenching the panels
- External buildings surveillance
- Shunting is attempted