

grintek

ewation

**SECURITY SYSTEMS AND PRODUCTS FOR
THE PROFESSIONAL & CORPORATE
MARKET**



Your solution partner...

Grintek Ewation (Pty) Ltd, is an ISO9001 listed system engineering company that came into being in 1968 and is privately owned by shareholders EADS, SAAB and Kunene Finance Company.

The company has since grown into a worldwide supplier of sophisticated integrated security systems.

Global footprint...

The company has been involved with major integrated security systems for the past 20 years both in South Africa as well as internationally.

Our main business is to conceptualize, design, install, commission, implement and support systems for clients in areas such as Airports, Harbours, Mines, Government institutions, National Defense Forces and the private sector.



Engineering overview...

Grintek Ewation has a wide range of design and engineering expertise in the following areas:

- System design and specification
- Integration, installation, commissioning and testing
- Configuration management and Quality Assurance
- Full life cycle support including:
 - Documentation
 - Training
 - Repair and Maintenance
 - Spares Provision
 - Support Management

Security system integration...

Grintek Ewation can deliver efficient solutions for various IT based security applications with a large range of integrated products from various manufacturers consisting of the following:

- Video Analytical Integrated Systems
- Integrated Access Control Systems
- Control Rooms
- Digital IP/TCP CCTV Networks
- Asset Tracking and Management
- Perimeter Intruder Detection
- Fiber Optic Network Design and Installation
- Vehicle Number Plate Recognition/Scanning equipment

More information on specific sub-systems.....

a) Digital camera surveillance....

The latest and most advanced technology and management systems for closed circuit television are incorporated into systems design, with equipment including different kinds of cameras, transmission equipment, processing units and monitors. A wide variety of equipment may be used including IP based cameras, fixed or Pan, Tilt and Zoom (PTZ) cameras, day and night surveillance cameras, long range thermal image cameras, digital video recording and CCTV management software.

Main features:

- Real time visual surveillance
- System software that uses off-the-shelf hardware to deliver a digital video solution
- Ethernet network facility can be used for remote surveillance
- Intelligent recording ensuring that vital video of an incident is captured
- Digital video storage, providing fast access to all important video data
- Alarm and event-activated recording

b) Access control...

Using access control we provide a range of building blocks for identification of persons and access management. This includes online/offline access control software, standalone access control systems, controller networking equipment, controllers, access and asset monitoring, biometric technology as well as cards and tags for identification and monitoring. It also integrates seamlessly with CCTV systems.

Main features:

- Grouping of physical areas into zones.
- Anti-passback functionality to prevent unauthorized re-use of access card.
- Setting of different access privilege levels.
- Real-time monitoring of access control events, system events and system performance.
- Data management and reporting.
- Swipe sequencing and random search can be used for complex access protocols in high security areas.

c) Asset tracking and management...

With the use of Wi-Fi based active RFID and sensors we provide complete wireless asset tracking and monitoring. This technology utilizes the power of Wi-Fi wireless networks to provide real business benefits through Real-Time Location (RTL), Active RFID sensors and telemetry. Wi-Fi and other wireless networking standards are used to accurately track the real-time location and status of valuable assets such as equipment and people.

With innovative software, customers turn visibility information into everyday decisions in order to improve operational efficiency.

Products include:

- A full-featured visibility application that integrates all enterprise visibility data, allowing users to track and manage assets.
- Tags for wireless asset tracking.
- Sensor technologies provide accurate location determination and visibility data
- Hardware devices help to deliver wireless visibility data from the assets to the network.

d) Perimeter intrusion detection...

Grintek Ewation offers a full range of electronic detection technology with various field devices, sensor technology, alarms and monitoring services for long international borders and various other perimeter applications.

For outdoor perimeter protection, a high level of experience is necessary to choose the optimal technical solution for specific objects in specific areas due to the following influences:

- environmental conditions
- influence of surroundings
- movement inside the protected area

The following is a brief description of some technology used in our systems.

SFE 2001 – Fence Electrification System

An electrified security fence system provides a cost-effective solution for detecting intrusions into a secured area. With the early detection of intruders, secondary measures can be put into action to identify and apprehend intruders and thus reduce the threat to security.



The SFE 2001 is a self-contained electronic unit used to perform fault detection on high-tension detection loops in an electrified fence environment.

If a conductor in the electrified zone is cut or electrically shorted at any point in the electrified zone, an intrusion or fault can be detected. The SFE 2001 can be connected to any single wire fence of up to 40km and displays actual distance in meters (accuracy +50m) of ground fault. The fence can be further divided into smaller zones and displayed as such.

This system can be used for international border fence security, sensitive installations, airports, ports, power stations, prisons, industrial sites, radio & TV masts and for game reserve / farm perimeter fencing.

Kinetic sensors

This is a revolutionary intelligent intrusion detection device that senses the kinematic behaviour of structures. These sensors are able to distinguish between deliberate intrusion attempts against a structure and unwanted effects such as environmental. Detection parameters can be set to achieve the best balance between probability of detection and nuisance alarms.

This product can be applied to all structures with kinematic behaviour. Typical structures of this type will be welded mesh and steel palisades.

Taut-wire perimeter detection

Taut-wire sensors combine wire fencing with strain gauge technology to detect changes in tension on the fence fabric rather than the vibration or stress associated with fence disturbance sensors.



A Taut-wire system consists of intelligent micro controlled sensors which detect and measure the mechanical disturbance of a fence.

The sensor parameters are adjustable to distinguish between the effects of wind, temperature and other disturbances.

The result is a detection platform that is regarded as an optimal balance between performance and nuisance alarms. Areas of application for taut wire systems are perimeter security fences where early detection is important.

e) Communication systems...

Network based and conventional communication and intercom systems are provided which allow operators to communicate between individual control stations.

f) Enterprise building management...

A fully integrated building – including access control, intrusion detection, camera surveillance, fire and HVAC – is not only more comfortable, productive and cost effective, but also offers a more secure environment.

This allows integration with a diverse range of devices, enterprise systems, inter- and intranet sources to allow intelligent management of key facility information.

Not only can an alarm trigger a series of events, but areas can be sealed off, evacuation can be activated, video monitoring of key events can take place and access control can be used to know who is still in the building. All this information can later be used to improve operations, safety and security.

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