

ADPRO[®]

Intelligent
Intrusion
Detection

Keeping people
IN



Keeping people
OUT

Does your facility require you to keep people in or out?

 **xtralis[®]**

Intelligent intrusion detection has been used for years to secure the most challenging physical security environments. However, the value of software to analyse video, turn it into data and alert users to crucial threats is more important today than ever before.

Intelligent Intrusion Detection analyses images to generate an alarm for an activity associated with a security threat.

Video Analysis differentiates between environmental changes and actual intruder activity.

Size Discrimination provides reliable detection of valid intruders by rejecting unnecessary objects.

Sophisticated Learning techniques optimise performance in order to adapt to changing environments for better detection probability.

Environmental Learning provides significant improvements in performance when used in harsh weather conditions including heavy snow and rapid cloud movement.

Cost Effective Solution, giving optimal value when protecting sites such as Nuclear Power Stations, Factories, Prisons, Utilities and Industrial Sites.

Low Operating Cost through improved analysis technologies, reducing nuisance alarms.

Increased Flexibility via ease of retrofit to existing systems and enhanced performance when connected to other ADPRO technologies.

Introduction to Intelligent Intrusion Detection

Intelligent intrusion detection is used as part of a security system to detect movement in an area where there should be no movement. This could be detecting people entering a site, such as a chemical facility or exiting a site such as escaping from a prison. A major benefit of these systems is that the cause of the alarm can be instantly identified through the video. The systems can be used to protect areas as well as perimeters.

The performance of an intelligent intrusion detection system is a balance between detection performance and nuisance alarm rejection. Any system can be tuned to provide a very high detection probability but at the expense of a greatly increased number of nuisance alarms. The challenge is to increase detection probability whilst maintaining a low nuisance alarm rate.

The latest generation of systems – the Presidium – embodies sophisticated learning techniques to optimise the detection probability and nuisance alarm rejection for a wide range of sites. The learning process is continuous in order to adapt to changing environments.

Such techniques of environmental learning offer significantly better 'all weather' performance by distinguishing between the extremes of heavy snow and rapid cloud movement, recognising the affected areas of the scene and optimising the detection process accordingly.

As with any security technology, to deliver the correct solution requires understanding of suitable applications and system design requirements. With good design methodology and installation practice, intelligent intrusion detection can provide a very high level of security in many applications.

Scenario:

Detection



In difficult environments, the ADPRO Presidium provides video based detection that ensures all alarm occurrences can be seen and their cause quickly and easily identified.

Defence

Airports

Government agencies

Community centres

Water facilities

Protected sites



e



Factories and Warehouses



s



Prisons



ment
es



Nuclear facilities



unication
s



Company headquarters



facilities



Auto dealers

Scenario:

Low false alarms



Tree shadows



Car headlights



Rubbish



Poor weather

ADPRO Presidium provides extremely low false alarm activations in the outdoor environment from such things as trees, their shadows, rain, snow, and car headlights.

Benefits

- High detection probability in a wide variety of scenarios
- Very low nuisance alarm rate reduces cost of monitoring
- Standard interfaces for simple system design
- Easy expandability through modular architecture
- Intuitive setup interface lowers installation and commissioning costs
- High reliability industrial system with self-monitoring
- Provides a complete detection, recording and transmission system through integration with FastTrace
- Platform architecture for future video analytics applications
- Simple retrofit into existing systems through standard interfaces
- Flexible configuration to protect areas or perimeters
- Clearly shows the cause of alarm, allowing security personnel to respond rapidly

ADPRO® Presidium Intelligent Intrusion Detection

ADPRO's Presidium Intelligent Intrusion Detection solution is the latest in video analytics technology that offers the flexibility that companies require for protection of critical sites. The modular architecture allows the customer to choose a system to meet their requirements.

ADPRO Presidium can reduce costly call outs and wasted operator time dealing with false alarms. The system monitoring ensures reliable, unattended operation without the need for regular operational inspections.

ADPRO has a long history in the perimeter protection market and has designed Presidium as a product which is easy to set up and operate and does not compromise on detection capability.



ADPRO® Presidium Intelligent Intrusion Detection System

Perimeter detectors



Presidium Intelligent Intrusion detector



PRO Series PIR detectors

Video transmission and storage



FastTrace Multi-site Video Security System

Central monitoring software



Video Central Gold and Video Central Lite

All ADPRO products integrate with a wide range of third party security products, such as CCTV cameras, detectors and audio equipment.

A wide range of communication links including PSTN, ISDN, cellular, ADSL and other high speed networks are supported.

Refer to the ADPRO Video Security products brochure or the data sheets for individual products for more information.

ADPRO has over 20 years experience developing high performance outdoor video movement detectors for the protection of critical facilities worldwide. The portfolio of technologically advanced ADPRO products is specifically designed to provide immediate warning and capture of security breach events.

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