ADPRO®

Intelligent Intrusion Detection Solutions

Intelligent Protection for People, Facilities and Assets

ADPRO®

Intelligent intrusion detection has been used for years to help secure the most challenging physical security environments. With the addition of video detection to the Xtralis portfolio, intrusion detection has never been more powerful.

Intelligent Intrusion Detection analyzes 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 optimize performance in order to adapt to changing environments for higher 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 provides optimal value when protecting sites such as Nuclear Power Stations, Factories, Prisons, Utilities and Industrial facilities.

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

Introduction to Intelligent Intrusion Detection Outdoors

Intelligent intrusion detection detects movement or unauthorized activity in a sensitive or high security area. From detecting suspicious activity at a chemical plant or unlawful entry at an airline hangar facility, intrusion detection solutions help proactively identify threats before they escalate.

The performance of an intelligent intrusion detection system is a balance between detection performance and nuisance alarm rates. 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 while maintaining a low nuisance alarm rate.
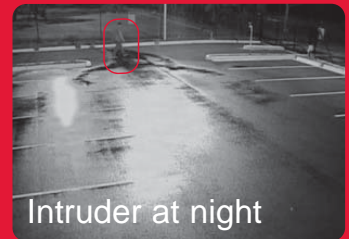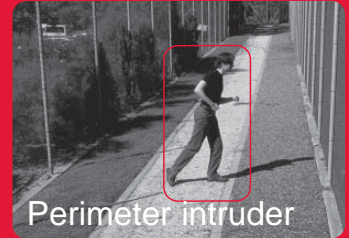
The Xtralis ADPRO Presidium uses sophisticated learning techniques to maximize the detection probability and nuisance alarm rates in a wide range of environmental conditions for a wide range of sites. The ongoing learning process adapts the system to changing environmental conditions.

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

With good design methodology and installation practice, intelligent intrusion detection provides a very high level of security in many applications.

Scenario:

Detection

Intruder in car

Perimeter intruder

Intruder at night

Intruder in rain

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

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Nuclear facilities

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Company headquarters

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Auto dealers

Scenario:
Low false alarms

Tree shadows

Car headlights

Rubbish

Poor weather

Xtralis 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 probability of detection 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
- 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

Xtralis Intrusion Detection Dual-Technology Platform

With many specifications calling for complementary dual-technology intrusion detection, Xtralis has the ideal solution. The Xtralis intrusion detection platform offers true dual-technology protection with integrated alarm verification capability. Xtralis combines our best-in-class ADPRO PIR detectors with ADPRO Presidium, the most advanced video-based intrusion detection appliance on the market today, for a comprehensive intrusion detection solution.

Unlike traditional dual-technology intrusion detection, using passive infrared and microwave radar, the Xtralis solution uses the PRO detectors and takes advantage of the CCTV system commonly in place to conduct alarm verification. While the CCTV system

remains available for alarm verification, Xtralis Presidium Mini and Presidium leverage this infrastructure to minimize installed costs. At the same time, the ease of installation and unparalleled probability of detection at near nuisance alarm-free operation greatly increases site security.

iLIDS®

Imagery Library for Intelligent Detection Systems

Sterile Zone Monitoring
Evaluations 2008/9
Xtralis (UK) Ltd.
Presidium
V2.00.03B0003

Xtralis ADPRO Presidium
Intelligent Intrusion Detection System

Xtralis is a leading provider of intelligent fire and security solutions that help detect threats before they endanger life safety, critical infrastructure and business continuity. Xtralis provides very early warning fire detection and control systems, traffic management, integrated access control, video security, detection and analytics solutions for more than 10,000 customers in 30 countries around the world.

Perimeter detectors

Xtralis ADPRO Presidium
Intelligent Intrusion System

Xtralis ADPRO PRO
PIR detectors

Xtralis ADPRO Presidium Mini
Compact Intelligent Video System

Remote Site Video & Alarm Management Software

Xtralis ADPRO VideoCentral Gold, Video
Central Lite and VideoWall

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

Refer to the Xtralis ADPRO Video Security data sheets for more information on individual products.

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