ADPRO Presidium

The ADPRO Presidium by Xtralis the latest generation of video motion detection systems designed specifically for outdoor perimeter and area protection applications.

With more than 20 years of experience in video-based outdoor protection, the ADPRO Presidium is the ideal combination of research and development expertise and real world know-how.

With the focus on prevention rather than post-alarm analysis, the potential for loss to your property is greatly reduced.

ADPRO Presidium provides reliable intruder detection in a wide range of indoor and outdoor applications.

Reliable Detection

The system employs flexible lighting compensation, multiple scene models, and practical object filters to provide reliable detection. The detection can be tailored for specific applications, based on the level of perceived threat to the site. Compared to other video based perimeter protection systems on the market, ADPRO Presidium's detection performance is not compromised during periods of scene change, such as during cloud shadows.

The ADPRO Presidium incorporates major advances in the reduction of false alarms caused by small animals, trees and their shadows, cloud shadows, car headlights, rain etc. Automatic scene learning and intelligent algorithms dramatically reduce false alarms.

The new advanced algorithms also allow users to set up special trigger areas within a camera view and to isolate and qualify a target's movement and direction, a capability that results in near zero nuisance alarm rates.

Easy to Use

An intuitive PC based graphical user interface provides an intelligent wizard and pre-configured typical settings, which enables quick setup either on-site or remotely.

Flexible Integration

Comprehensive facilities are provided for easy integration with the ADPRO FastTrace and ADPRO FastTx through a network based High Level Interface.

The network-based High-Level Interface (HLI) provides an easy, text-based integration to ADPRO FastTrace and ADPRO FastTx, or any third-party supporting the non-proprietary protocol. The ADPRO Presidium further allows for easy integration of pre-existing alarm devices to any third-party CCTV control system. The ADPRO PRO Series PIR detectors can also be seamlessly combined with ADPRO Presidium resulting in a complete remote site security system.

Features

- i-LIDS® approved primary detection system for operational alert use in sterile zone monitoring applications
- Advanced algorithms to maximise target detection and tracking under a wide range of conditions.
- High resilience to unwanted alarms from small animals, clouds, wind and rain.
- Multiple free-form trigger areas.
- Contrast alarms for sabotage detection.
- Video loss detection for camera, lens or cable failure.
- Easy to commission via quick setup feature.
- Single cable, High Level Interface to ADPRO FastTrace, ADPRO FastTrace-R and ADPRO FastTx, reducing wiring and setup time, providing seamless integration.

New Advanced Features

Xtralis have developed additional functionality to enhance the ADPRO Presidium detection capability and reduce unwanted alarms to near zero.

- Directional object detection.
- Dual edge trigger areas used to qualify alarms.
- Single edge target detection.
- Timer enabled detection for sterile zone loitering.

Applications

- Traffic reverse flow detection
- Virtual barrier crossing
- Tunnel entrance protection
- No go area detection
- Prison and airport perimeters
- Quarantine area protection

This advanced feature software is available by downloading the latest software version from the Xtralis WEB site.

Purpose Built Solution

A purpose built hardware platform and dedicated, embedded software combined with real time system monitoring maintains uninterrupted, reliable operation. The ADPRO Presidium is designed for installation in a typical 19" industrial rack environment.

Specifications

Video Inputs per module
- 2 independent camera inputs per VM15 module. Each input 1 Volt p/p video input, 75 ohm or high impedance.

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- 2 independent video outputs per VM15 module provide 1 Volt p/p video output when terminated by a 75 ohm load.
- Each video output displays channel video and on screen display information and connects directly to the camera during power failure.

Inputs per Channel (2 channels per module)
- All external inputs are transient protected and designed to be driven by dry contacts or logic levels. Voltage input <0.8 V - logic low, 7 mA (max); between 3.5 V and 5.0 V - logic high. Screw terminal connectors Normally Open (NO), Normally Closed (NC), Single End of Line (SEOL) or Dual End of Line (DEOL) tamper detection on each input using supplied resistors.
- Isolate input to disable detection, no video and contrast alarms.
- Alarm input with programmable hold time.

Inputs per chassis
- Access/secure input to enable/disable detection on all channels. Screw terminal connectors Normally Open (NO), Normally Closed (NC), Single End of Line (SEOL) or Dual End of Line (DEOL) tamper detection on each input using supplied resistors.

Outputs per channel (2 channels per module)
- Alarm output relay activates on the occurrence of an intrusion alarm.
  Can also be programmed to activate on a no video and/or contrast alarm.

Outputs per chassis
- 1 general alarm relay (normally open and normally closed contacts) activates when an alarm condition occurs on any module.
- 1 fault relay (normally open and normally closed contacts) activates on the occurrence of any system fault: power loss, over temperature condition, system reset.

Network Connections
Setup Port (Front Panel)
10BaseT / 100BaseT Ethernet Port supporting TCP/IP.
LAN 1 & 2 (Rear Panel)
Both 10BaseT / 100BaseT / 1000BaseT Ethernet Port supporting TCP/IP.
Used for HLI connection to ADPRO FastTrace/ADPRO FastTx and remote network connection.

Setup
Setup via an intuitive, PC based utility that connects to the unit via a network connection.

Power Requirements
100–240 volts, AC, 50–60 Hz. Maximum power dissipation 150 W.

Construction and Dimensions
Standard 19" rackmount, 3U high subrack to DIN4194.
482 mm (19") W x 132 mm (5.2") H x 281 mm (11") L.

Weight
Rackmount – Fully configured system 8.7 kilograms (19.2 pounds).

Temperature Range
Operating range 0°C - 40°C (32°F - 104°F).
Humidity less than 90% non-condensing.

EMC Compliance
Emissions: Class A compliance to EN55022:1998 +A1+A2, AS/NZS CISPR 22:2006, FCC Part 15
Harmonic Current Emissions to EN61000-3-2:2000
Voltage Fluctuations & Flicker to EN61000-3-3:1995 +A1
Immunity: EN50130-4:1995 +A1 +A2 (Alarm Systems Product Family Immunity Standard) UPS required for compliance with 100 mS mains voltage interruption requirement.

Safety Compliance
IEC 60950-1:2001 (CB Report including national deviations for AU, CA, KR, US and EU Group).
UL Listed to US and Canadian Safety Standards under File E219750.

Warranty
Twenty four (24) months on all components.

Configuration Options
The ADPRO Presidium chassis has slots for up to ten video input modules. Each module has two channels of VMD.
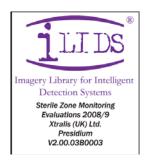
Video Input Modules
VM15 video intrusion detection module. Two VMD channels per module.
One VM15 module per chassis is required for basic operation.

Ordering Information

Model	Description
VM-15	Presidium 2 channel module
PDM-0	Presidium - Chassis
PDM-02	Presidium - 2 channel unit
PDM-04	Presidium - 4 channel unit
PDM-06	Presidium - 6 channel unit
PDM-08	Presidium - 8 channel unit
PDM-10	Presidium - 10 channel unit
PDM-12	Presidium - 12 channel unit
PDM-14	Presidium - 14 channel unit
PDM-16	Presidium - 16 channel unit
PDM-18	Presidium - 18 channel unit
PDM-20	Presidium - 20 channel unit

Availability

Download the latest software version from the Xtralis upgrade website (http://software.adpro.com.au) or via email from Xtralis technical support (support-adpro@xtralis.com).

iLIDS
Imagery Library for Intelligent Detection Systems
Sterile Zone Monitoring
Evaluations 2008/9
Xtralis (UK) Ltd.
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