

ADPRO® Axiom

Outdoor Multi Channel Video Intrusion Detector

Perimeter protection gives the earliest possible warning of intruders, ADPRO Axiom's intelligent image processing provides optimum video security for your enterprise.

ADPRO Axiom provides reliable intruder detection in a wide range of outdoor applications. State of the art automatic scene and environmental learning techniques provide breakthroughs in both performance and ease of use.

Reliable Detection

Perspective compensated sizing, speed measurements and target tracking techniques, focus the detection process on real intruders.

Low False Alarm Rate

Automatic scene learning optimises detection of genuine targets while rejecting alarms from wind induced movement of objects within the scene and their shadows.

Environmental learning selects the best detection algorithms for conditions as diverse as rapid cloud movement and heavy snow.

Easy to Use

The intuitive quick setup menu allows the user to fully configure an intrusion detection channel in a matter of minutes.

Flexible Integration

Comprehensive facilities are provided for both standalone operation and large scale system integration.

Optional remote alarm verification and site control capabilities provide comprehensive and cost effective remote site management.

Features

- High probability of detecting intruders under a wide range of environmental conditions.
- Low probability of false alarms from small animals, clouds, snow, wind and rain.
- Automatic environmental compensation with no sacrifice in detection area.
- Full scene width detection capability with over 1,000 individually maskable detection zones.

- Low and high contrast alarms for camera failure or sabotage detection.
- Up to 4 selectable operational modes for maximum flexibility of application.
- Integrated sequential and alarm homing video switcher and event logger when used with the ADPRO AMK-300 Desktop Keyboard.
- Expandable from 1 to 140 channels.
- Easy to commission via quick setup feature.
- Option slot for inclusion of ADPRO VM30 pre-alarm Framestore or ADPRO VM41 Fast Scan remote site video transmission module.
- Multi-lingual on-screen menu programming of all parameters with help functions.



Specifications

Video Inputs per channel

- Camera input, 1 Volt p/p video input, 75 ohm or high impedance.
- Auxiliary video input used to link the spot and sequencing video signals between multiple Axiom chassis.

Video Outputs per channel

- The video outputs provide 1 Volt p/p when terminated by a 75 ohm load.
- Local video output provides on screen display information and connects directly to the camera during power failure.
- Auxiliary (switched) video output is used to link spot and sequencing video signals between multiple Axiom chassis. Channel 1 auxiliary output provides operator controlled spot monitor. Channel 2 auxiliary output provides auto-sequencing/alarm homing monitor (requires desktop Keyboard).

External Inputs per channel

- All four external inputs are transient protected and designed to be driven by clean contacts.
- External alarm input with programmable hold time.
- Access/secure input to disable/enable detection.
- Mode 1/2 input to select between two sets of user programmed detection parameters. (Two further modes can be selected via the optional desktop Keyboard).
- Detection inhibit input which re-initialises the motion analysis processes.

Alarm Outputs

Alarm outputs are provided via the VM20 input/output modules in the Axiom chassis.

- 1 alarm relay output per channel.
- 1 opto-isolated alarm output per channel.
- 2 general alarm relays per chassis.
- 2 fault relays per chassis.

System Control and Setup

Control of operation and setup may be obtained via the desktop Keyboard. System setup may alternatively be performed using an ADPRO Programmer.

Multi-Lingual Support

Installation setup menus and help screens support English, French, German, Spanish and Italian.

RS485 Port

The Axiom system may be expanded in groups of thirty two modules via the bi-directional serial RS485 port, using the desktop Keyboard.

Operating Conditions

Operating temperature range 0°C-50°C (32°F-122°F).

Humidity less than 90% non-condensing.

Construction

Standard 19" rack mounting, 3U high sub-rack unit to DIN 4194 (Eurocard), containing up to ten intrusion detection modules and one optional special function module. All cables, except programmer, accessible from the rear of the unit.

Power Requirements

100 - 240 VAC, 47 - 63 Hz, 110 W maximum.

EMC Compliance

Emissions - Class A compliance to EN55022, CISPR 22, FCC Part 15, AS/NZ 3458.

Immunity - EN50130-4 Alarm System Immunity.

Electrical Safety

IEC950, EN60950, AS3260.

Warranty

24 months.

Configuration Options

The ADPRO Axiom chassis has slots for up to ten video input modules plus an optional video storage or transmission module. Each Axiom chassis is supplied with one VM90 power supply and two VM20 input/output modules as standard.

Video Input Modules

VM14 video intrusion detection module, one per channel.

VM13 video and alarm input module, for channels which do not require video intrusion detection.

One VM14 module per chassis is required for basic operation. Two VM14 modules per chassis are required for alarm homing and auto-sequencing.

(Note: VM13 modules do not support the video loss detection nor automatic alarm homing functions).

Special Function Modules

The Axiom chassis can accept either:

- One VM41 Fast Scan module providing full remote control and programming capability in addition to colour video alarm verification and bi-directional audio communications, or
- One VM30 multi-image, multialarm Framestore module for local replay of alarm events.

Keyboards

Either an ADPRO full function desktop AMK-300 Keyboard or hand held Programmer.

Television Standard

PAL or NTSC to be specified at time of order placement.

Ordering Information

When ordering an Axiom system the following part number format is used:

Axiom*n*.

where *n* is between 0 and 10, and specifies the number of VM14's in the chassis. For example, an Axiom12 is an Axiom chassis with two VM14's.

Other modules such as the VM13 are ordered as separate items.

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