



## Arkonia Systems Limited

### ARK9200 GUARDIAN Asset Protection System

- ▲ Low cost high integrity asset protection
- ▲ Very Low false alarm rate.
- ▲ Very Low Power consumption.
- ▲ Minimum training required.
- ▲ Rugged construction - for use in the most hostile environments.
- ▲ PIR Detection System employing programmable digital processing techniques.

The detection of intruders is with the use of an intelligent Passive Infra-Red detection system that employs digital signal processing techniques to ascertain valid targets.

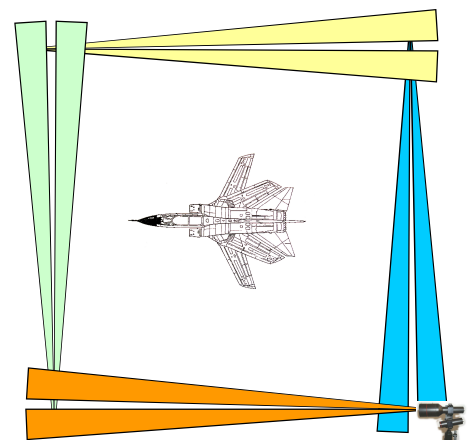
A series of SMART PIRs are used to encompass an object and so provide all round protection from intruders. With 2 on board micro-processors and three software configurable sensitivities, the SMART PIR is capable of adjusting to its surroundings and working through the most adverse weather conditions.

On detecting a target, the PIR will trigger a transmitter, which in turn will transmit an alarm message to a Pager. The paging message displays the direction of target movement and the date/time.

This is a direct message from the transmitter and does not go via the local telephone network. The message can also be transmitted to a laptop computer where the alarm message is displayed showing the date, time and direction of the target.

The system is simple to use and can be installed in minutes. Its low weight allows it to be easily carried in aircraft cockpits or in man-packs. This fully self contained system is built to exacting standards and provides an excellent rapid deployment, low cost, high integrity asset protection system for use by Police, military and paramilitary forces world-wide.

GUARDIAN has been specifically designed to provide a reliable low-cost, low-maintenance asset protection system capable of operating for extended periods under extreme environmental conditions. Ease of transportation, deployment and operation were prime considerations during the design of the system. The versatility of the system



Typical Guardian Protection Square  
100m x 100m

Sensor ID	Sensor Name	Type	Level	Time	Alarm Type	Time
G11	East Fence Line	G	6	10:08:22	CONFID ALARM (6G)	10:08:37
G12	North Fence Line	G	6	10:04:11	CONFID ALARM (6G)	10:04:19
G13	West Fence Line	G	6	10:05:30	CONFID ALARM (6G)	10:05:32
G14	South Fence Line	G	6	10:07:04	CONFID ALARM (6G)	10:07:08
G21	Pan Delta	G	6	10:10:10	TARGET	10:10:15
G22	Main Gate	L	12	10:11:43	CONFID ALARM (12L)	10:11:47
G23	Crash Gate 1	L	0	10:14:09	CONFID ALARM (0L)	10:14:12
G24	Rear Entrance Gate	G	1	10:25:45	TARGET R to L	

The GUARDIAN Monitoring Station operates in conjunction with a VHF receiver/decoder module that outputs the sensor alarm data in USB format (RS-232 version available on request). Up to 16 Sensors can be displayed by the software. Full logs are kept of all events.

The monitoring station consists of:

- A Desktop / Laptop Computer. (Supplied by User)
- A VHF POCSAG Receiver Unit
- A Receive Antenna
- A software Program
- A USB interface cable



A digital mapping version of the software is also available. The map can take the form of a bitmap giving good versatility (i.e. Scanned image, sketch, photograph etc ).

By entering 2 GPS reference co-ordinates on the image, the user can find the co-ordinates of any position on the image by placing the cursor at the required point.

### Brief Specifications:

Transmitter Power Output:	500mW or 3W (Software Configurable)
Tranmitter Callsign ID:	Software configurable - up to 7 systems each with up to 10 sensors
Transmitter Frequency Range:	149 - 153 Mhz (Factory Configured single frequency)

System Functions:	Confidence alarm (software configurable between none, 1, 6 and 12 hrs), Tamper Alarm, Low Battery Alarm, Disconnect Alarm, Target L to R - Target R to L - Target Centre (1-Byte Mode), Target (Pulse Mode).
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Power Requirements:	ARK9210 14.7V nominal, 4000mAh, Lithium Ion Rechargeable or 12V 500mA max, external supply (Software Configurable) Max Power on external supply: 2W
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FOR FURTHER TECHNICAL INFORMATION REQUEST: PRODUCT SPECIFICATION



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