

ASF SABRA® FENCE

ASF SABRA® HUB

Australian Security Fencing P/L (ASF) Sabra® Fence System is a new and innovative, highly expandable and flexible Perimeter Protection System combining cutting edge electronics and complex mathematical algorithms to create a highly sensitive and sophisticated detection medium with environment cancelling controls. This System uses Multiple Sensing Transducers and can be installed onto any perimeter fence wall, permanent or temporary structure.

Key Features:

- Easy to install and re-locate
- Compatible with existing alarm systems
- Multiple sensing and detection ability
- Fully encapsulated transducers
- Built in temperature detection
- "Smart Patrol" – magnetic based integrated patrol documenting/recording system
- Built in magnetic sensor for passageways or gates
- Easy interface with PC/Laptop
- Cost effective perimeter security
- Over 2000m, 500 sensors, from a single point
- Windows 7 operating system with full graphic interface via ASF Sabra® Fence Map View Software

Design

The ASF Sabra® Fence System provides excellent detection resolution to within each unique transducer in the chain. Using the CPU on each transducer, the system has the ability to analyse signals on the spot. The sensor algorithms are adaptive and can be updated by the end user to provide a stable and reliable system.

The ASF Sabra® Fence Wide Area System, connects multiple ASF Sabra® Fence Hubs, creating a seamless, single network of detection that may cover many hundreds, even thousands of sensors distributed along kilometers of perimeter lines, or security sensitive infrastructure.

ASF Sabra® Fence Hub

The ASF Sabra® Fence chain of transducers connects to the ASF Sabra® Fence Hub unit. The ASF Sabra® Fence unit is an x86 platform-based computer running optimized Windows 7 with a colour graphical display showing the current state and alarms of each sensor overlaid onto customized client oriented maps/images given intuitive understanding of the exact location of detected events. Via an external interface, PTZ cameras or lighting can be activated to give real time visual confirmation. The ASF Sabra® Fence Hub unit software performs several operations in parallel:

- *Scanning the transducers in the chain
- *Receiving a report about the condition of all the transducers.
- *Reporting events to various external units such as alarm systems, dry contacts or communication components.
- *Displays the status of the transducers on the local user interface, typically used by technicians during installation.
- *Simultaneous recording of events on demand or exportable to other applications.

ASF SABRA® FENCE HUB



ASF SABRA® FENCE SENSOR



ASF SABRA® FENCE HUB



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Overall Topography & Installation

The ASF Sabra® Fence System has been designed to be suitable for Single Board Industrial PC (IPC) Operation. The typical hardware specifications shall be (minimum Server Specifications):

- Windows 7 Professional
- Pentium 800MHz Dual Core processor or better (1GHz recommended)
- At least 256 MB of RAM (512 MB recommended)
- At least 10 GB of available space on the hard disk
- .Net Framework V4.
- Keyboard and a Microsoft Mouse or some other compatible pointing device (optional)
- Video adapter and monitor with Super VGA (800 x 600) or higher resolution (optional)
- Sound card - Speakers or headphones (optional)

The ASF Sabra® Fence software causes this IPC to act as a hub for attached ASF Sabra® Fence Transducer chains. The ASF Sabra® Fence software manages the attached transducers, setting the parameter values, communications, collection of data and alarms/events, and ensuring operation.

Interfacing Options.

The ASF Sabra® Fence Hub can connect to a Site Security Management System for integration purposes. Commonly ASF Sabra® Fence can then be used to direct PTZ Cameras, Sounds audio, alert staff or initiate any other Alarm responses to the particular areas under attack.

Both Low Level and High Level Interfaces are available.

Low Level or Relay Logic Interfaces can be quickly established with the inclusion of 4,16,32 Relay Output Panels, powered from the same PSU and DIN mounts. High Level Interfaces exist to the PIMA and RISCO Alarm Systems. A Customisable ASCII based Interface over a Standard Ethernet connection.

Alternatively, custom or specific interfaces can be developed by the implementation of the AFS Sabra Fence Software Development Kit (SDK). Please contact ASF for details.

Sabra® Hub Specifications

PHYSICAL

Weight	2Kg
Operating Temperature	-0 to 45°C with 0.7m/s air flow
Humidity	0% - 95% @ 40°C Non Condensing
Hub Dimensions	265mm x 70mm x 140mm
Construction	Aluminium Housing suitable for DIN or direct mounting.

ELECTRICAL

Input Voltage	12 -24VDC 3A
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Connections

Sabra Data Input / Output	RS485 with Sabra Protocol
Data Exchange with Alarm System /External/Remote Systems	RISCO IO PIMA ASCII SDK Package Available.
Display	1x VGA up to 2048x1536
Storage	160GB 2.5" SATA II Hard Drive Typical
Main Processor	Intel Atom D510 @ 1.66GHz
Memory	1GB DDR2 667MHZ Typical upgradable to 2GB
Communications	Built in database storage Interfaces – 6x USB, 3x LAN, 5x RS485/RS232 3x 10/100/1000 Mbps Ethernet HD Audio jacks Support 2 chains of 1250m Expandable up to 4 chains of 750m
Audio	
Communications	
Certifications	CE, FCC, CCC, BSMI KC
Safety Certifications	UL, CCC, BSMI KC

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