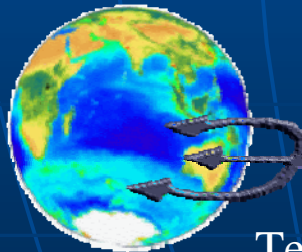


# Aware-Fence Smart Perimeter Protection System

Technical Description



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# The Aware-Fence System

- patented system.
- designed to handle all aspects of perimeter protection.
- meet the security management needs of a wide variety of facilities and installations.



# General

- **2003** - A-F products approved by the Defense Forces (DF).
- **2004-2005** - DF issued PO for more than 150 km of A-F electronic fence system, including 20km in a border project.
- A-F system secured the **Olympic village in Athens.**

# Technical overview

# Main system components

## Sensor Line

- Inertial sensor – normally closed.
- Twisted pair UV protected cable.
- The sensors are connected, serially, to the cable .
- Enclosed in high impact plastic, UV protected .



# The sensor



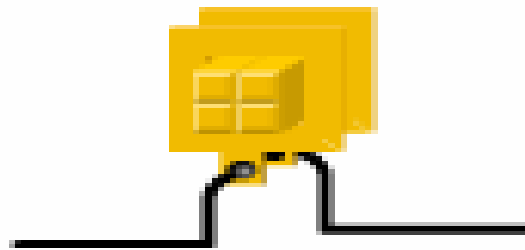
# Main system components (2)

## EF-2000 Remote Unit

- Controls two different sensor lines (up-to 750m each).
- Detect "events" within a resolution of  $\pm 10$  meters.
- Automatic verification of events.
- Continuous self-check.



# Principle of operation





# Principle of operation

- The perimeter intrusion detection principle of the system is based on “reflected wave technology” (T.D.R).
- The remote unit (EF-2000) transmits electric pulses into the sensor line
- In case there is an intrusion attempt through the perimeter, it will be detected by the inertial sensors.
- The pulse will be reflected, the time between the transmitting and the reflected wave will determine the location of the event within a  $\pm 10$  meters resolution.
- A special algorithm is able to differentiating between a true alarm and the rest

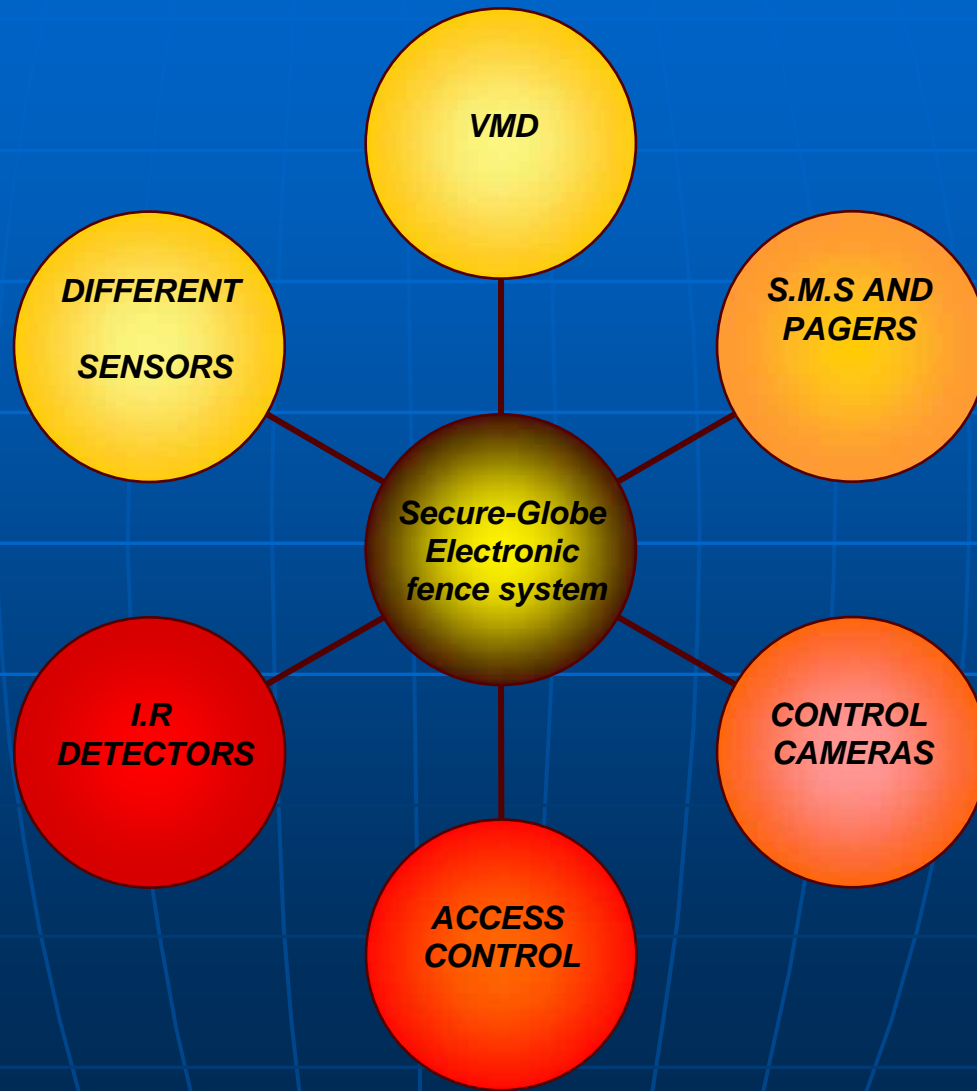
# Main system components (3)

## Software

- The system is able to handle perimeter protection as well as indoor protection control.
- Complete interface with various access control and video devices.
- Protected site map is displayed on the screen.
- Automatic sensitivity adjustments under weather conditions .
- Remote command and control on distant sites



# Comprehensive Solution



# System Advantages

- Very low false alarm rate.
- Can be installed on almost any type of existing fence.
- Resolution detection:  $\pm 10$  meters.
- Simple integration with other systems and equipment.
- Cost effectiveness.
- In operational military use.
- Maintenance and installation: exceptionally simple.

# CU-07

- The CU-07 is a stand alone, small scale perimeter intrusion detection system for protection of small sites up to 800 meters
- The CU-07 solution incorporates a single chip Microprocessor that allows to detect intrusion events with a resolution of  $\pm 10$  meters and extremely low false alarm rate.
- Dry contacts and RS232 interfaces
- Easy installation, simple maintenance.

# Small sites (CU-07)



# Potential Applications

- **Military bases & facilities**
- **Border solutions.**
- **Airports.**
- **Critical infrastructure – Power plants, Oil farms, Nuclear stations**
- **Government facilities – Prisons**
- **Industrial and commercial areas.**
- **Small sites – communication sites, private houses**

# Projects Military





# Projects Civil



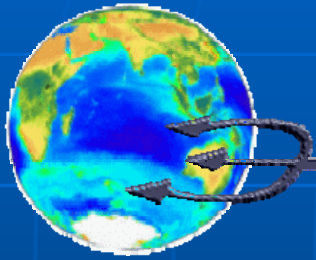


## Olympic Village in Athens 2004



# The End

## THANK YOU!



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