

Viper

Advanced Perimeter Security System

The VIPER is a new generation intruder detection system, designed to handle all aspects of perimeter protection. It upgrades any existing fence to the status of an electronic barrier with an exceptional detection resolution of ± 10 meters.

Wherever perimeter protection and intrusion detection are required, the VIPER provides the utmost security with a system that is easy to install, operate and maintain. The long life sensor units are easily attached to the fence at approximately 3 meters intervals and are highly immune to extraneous environmental factors.

The VIPER technology is approved by the Israeli Army Technological Unit for the protection of borders, military camps and top secret sites. It is certified by the most rigorous international standard such as EC, FCC, ISO 9001:2008, the IDF and more.

Features

- The Viper can be installed on any type of existing security fence.
- The highest detection rate with the best resolution detection of ± 10 meters.
- Maximum performance with minimum electronic elements.
- Very low false-alarm rate due to special software algorithm.
- All weather operation.
- User friendly interface
- Easy to install and maintain.
- The Viper can be integrated with any other security system such as CCTV, PTZ cameras, IR sensors, access control systems, VMD solutions, video recording solutions, wireless communication systems etc.

Applications:

Civil:

Residential Complexes, Sports Complexes, Holiday Resorts and other facilities.

Industry:

Refineries, Pipe Lines, Oil-Farms, Industrial Parks, Industrial plants.

Military:

Borders, Military Bases, Ammunition Depots.

Governmental:

High-risk governmental sites: Airports, Harbors, Nuclear, Plants, Hydro-Electric Power Stations, Train-Stations, Prisons.

EL-FAR Electronics systems 2000 Ltd.

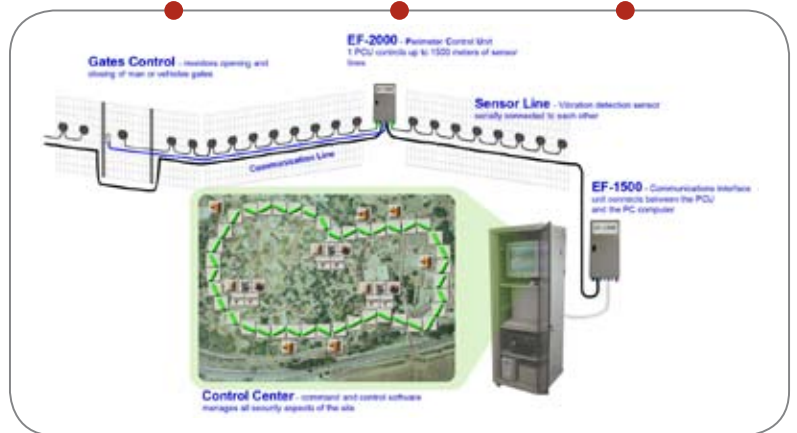


Principle Of Operation

The perimeter intrusion detection principle of the VIPER is based on "Reflected Wave Technology" that works in a similar way to Radar. Each Perimeter Control Unit (PCU) transmits electric pulses into the sensor line. When an intrusion attempt occurs along the perimeter, it will be detected by a reflected wave from nearest sensors.

The time delay between the transmitted and the reflected wave will determine the location of the event within ± 10 meters resolution.

This "RADAR-LIKE" principle simplifies the structure of the system, and provides it with the advantages which other technologies are unable to provide. The sensor line, which consists of only one twisted-pair cable, simplifies the installation and maintenance and is protected by an end-of-line resistor against any tampering with the system.



Technical Data

Sensor line - EF SL/HD

Operating temperature	-45°C to +85°C
Relative humidity	100%
Operating voltage	5-v36
Operating current	50-5mAmp
Enclosure	In high impact plastic UV protected
Life expectancy	>10 years field operation

Interface Unit - EF-1500

Powersupply	90 to 250 VAC
Communication to complementary systems standard	RS-232
Communication with remote units	Synchronic (1KHz)
Lightning protection	up to 6500 amps transient spark suppression
Response time	35 Nano seconds

Remote Perimeter Control Unit - EF-2000

Operating voltage	12VDC
Current consumption	0.20 Amp. Max.
Output pulse amplitude	5v
Operating temperature	-45°C to +85°C

Input/output Remote Unit - EF-127

Operating voltage	12VDC
Power consumption	5 mAmp TYP without relay activation
End-of-line resistor	27Kohm
Communication frequency	1 KHz
Dry contact	2 Amp Max.



24 David Navon Street,
Magshimim, 56910, Israel
Tel: +972 3 916 0531
Fax: +972 3 916 0438

elfar@elfar.co.il
www.elfar.co.il