

### Sabra Fence Management

Security. All Around



The First Multiple Sensing Transducer for perimeter detection



**Patent Protected Product** 





**Sabra** (Tzabur), actually refers to a cactus plant that is indigenous to the area, which is something called prickly pear cactus.

The Sabra has the ability to grow in extremely adverse conditions and is known to have a comprehensive system of thorns that protect an interior that is extremely sweet and tender.

The name SabraFence reflects its initial focus on the electronic perimeter fence and sensor market.

The application and usage segments of the technology are so vast that they span well beyond traditional perimeter fencing into new untapped markets.

This potential has prompted the founders to adapt the product name in a way that reflects such a broader potential.

## REVOLUTION IN PERIMETER SECURITY



### SabraFence™

A smart security system for infrastructure and outdoor security markets, based on technology which relies on a proprietary multisensing capability to detect an event and to react according to preprogrammed scenarios. (e.g. scent spray, flashlight, siren etc.)

**The System**, is build in a solid foundation of real, existing opportunities in the infrastructure and outdoor security market, while tapping the security industry segments well beyond the intrusion detection market.



### SabraFence<sup>™</sup>

### Our mission has multiple angles.

Our mission is to provide the infrastructure and outdoor security market with a new generation of easy to install, reliable and affordable systems by using innovative system architecture and sophisticated sensing devices.

This is done by taking cutting-edge, expensive technology used in military and governmental high security applications and transforming them into cost efficient, high-tech, mass produced products suitable for wholesale distribution.

SabraFence, cutting edge Technology



#### **TECHNICAL OVERVIEW**

- We design and manufacture market innovative transducers for perimeter security solution
- Sabra's perimeter security solution enables early detection of intruder utilizing MEMS vibration sensing device
- The transducers are over-molded on a standard outdoor cable, each exchange information over RS485 with SabraHub unit







#### SABRAFENCE TRANSDUCER

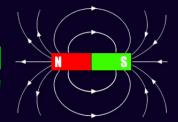
- Each transducer includes a micro-processor to do the local calculations to filter solid or false event
- Each transducer has unique address so the intrusion event is detected to the transducer location resolution
- Each transducer could be adjusted to fine tune the sensitivity and functionality individually
- Transducers are molded over the cable every 10 feet enables operation under extreme environmental conditions
- The transducer include multiple sensing devices & technologies to enable using same transducer for variety of applications and customer needs











**VIBRATION EVENT** 

**TEMPERATURE EVENT** 





**SMART PATROL** 





**Not Orientation Depended** 

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### **DECENTRALIZATION CONCEPT**

(((a+b)xc+d)/kxa)x2+((a+k+2a)x2)



#### The Transducer

- Each transducer has a built-in sophisticated algorithm
- Each transducer can have unique algorithm parameters; different sensitivity for each one!
- Each transducer calculates the "weight" of an event after filtering the "noise

#### SabraHub

- Monitors entire system
- Receives "weights" of all transducers and make up decisions





### **APPLICATIONS**



**Perimeter Protection** 



**Temperature Sensing** 



**Solar Panel protection** 



**Speed Bump** 



**Passageway Handling** 

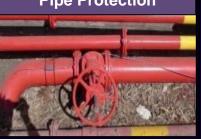


**Fast Deployment** 

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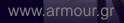


**Pipe Protection** 



**Smart Patrol** 











### SabraFence™ Security. All Around

### **PASSAGEWAY HANDLING**



#### **Passageway Handling**



- Each transducer has a built-in Magnetic sensor
- To add the magnetic capability:
  - Define transducer as magnetic (With SabraHub Software)
  - Rotate transducer by 90deg
  - Install SabraMagnet on infrastructure at opposite side

SabraMagnet

SabraMagnet

Transducer Rotated (90°)

Transducer Rotated (90°

## SabraFence<sup>TM</sup> Security. All Around

### **TEMPERATURE SENSING**





Detects temperature change and report prior to deterioration

- Built-in temperature sensor in any Transducer
- Any drastic change of temperature in a short period of time at 10 feet resolution will immediately reported









Each transducer can be SSPU (Sabra Smart Patrol Unit)

A Guard can use Sabra MagicStick to report is location and presence (Sensor Number, Date, Time).



### **SABRA SPEED BUMP**







Detection of cars running over Sabra Speed Bump

- Early detection prior to site entrance
- Automatic gate control
- Car counting



### SabraFence™ Security. All Around

### **PIPE PROTECTION**





Direct installation of Sabra Transducer over the pipe to prevent any attempt of Tamper, Drill or Hammer the pipe.

3m (10 feet) resolution





### **FAST DEPLOYMENT**







Fast deployment of Sabra Transducer over temporary fences / Police barriers

- Magnet adaptor Fast and easy to deploy
- Direct connection to Laptop or UMPC



### **SOLAR PANEL PROTECTION**





Thin special Sabra cable passing through each panel

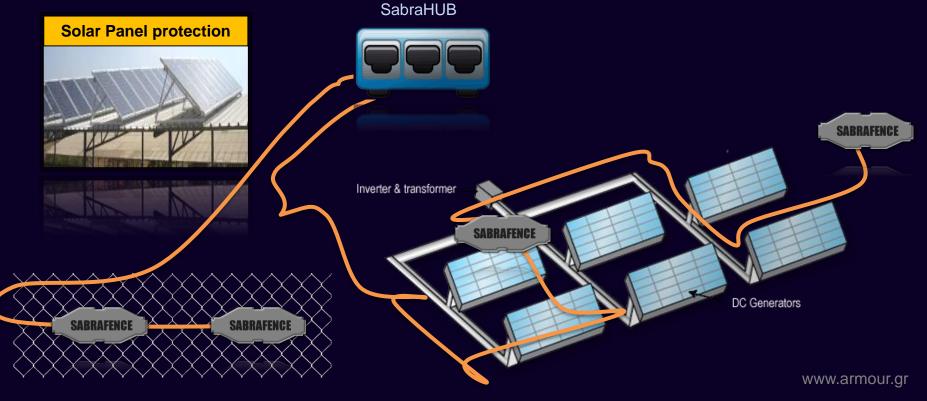
- Easy and fast installation
- Immediate alarm less than 1 sec
- Digital communication cannot be encoded
- Direct connection through dry contact to alarm system
- No False Alarms!!!

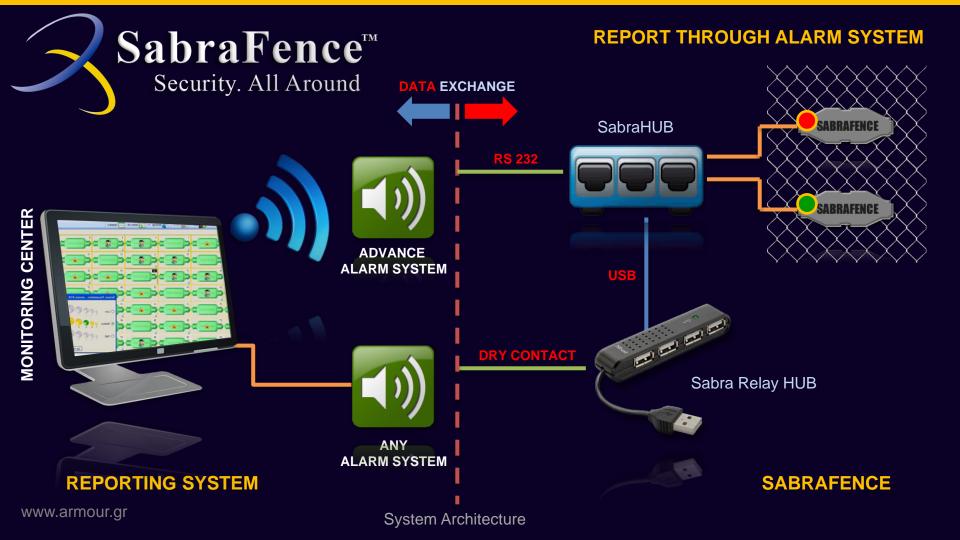




### **SOLAR PANEL PROTECTION**





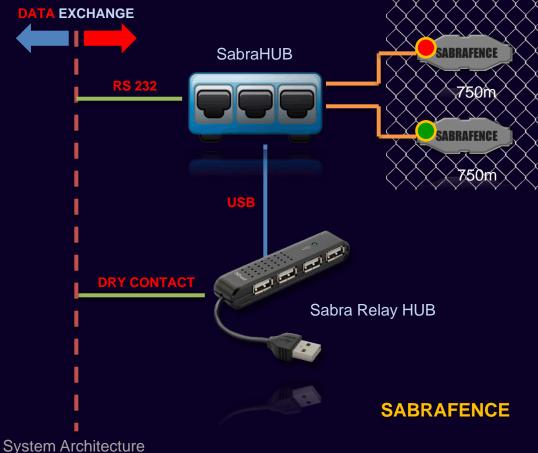






REPORTING SYSTEM & MONITORING CENTER

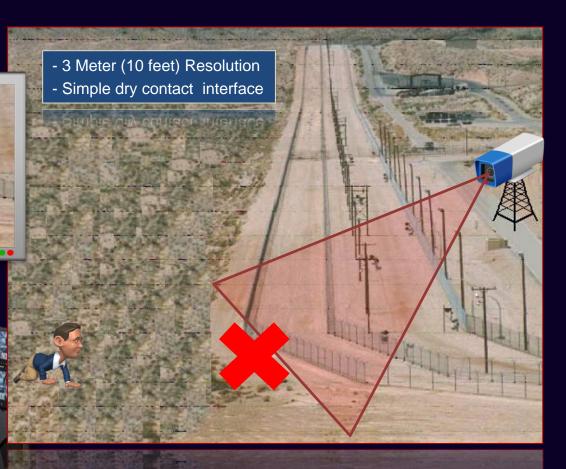
### REPORT THROUGH ALARM SYSTEM



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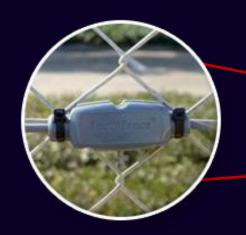
### **SABRA CONNECTION TO CAMERA PRESETS**





### **INSTALLATION PICTURES**









### **INSTALLATION PICTURES**(Water Pumping)





-58 Transducers

- -166 meters
- -Bars fence
- -1 entrance gate
- -1 SabraHub
- -1 Risco Alarm-System with GSM
- -Total time of installation 4h
- -Direct connection to remote monitoring-station
- -Remote controlled over the internet





# A REVOLUTION IN FIELD ALARM SECURITY SYSTEMS

- Water treatment sites
- Gas storage & distribution sites
- Utility sites
- Wheelhouses, storage area
- Factories
- Cellular sites
- Agriculture areas
- Railroads
- Private houses

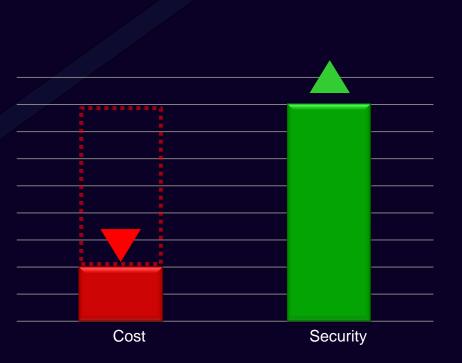
SECURITY SYSTEMS





### **High Security at low cost!**

- State-off-the-art technology
- Multi sensing capability
- Omni-Directional installation on any infrastructure
- Decentralize processing very low FAR and high resolution settings capability
- 3 meter resolution setting, operating, maintaining
- Various reporting-interfaces
- Adaptable
- Cost effective



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### **Revolution in Perimeter Security**

- Easy to install in small or medium sites and linked to existing alarm systems and any type of existing fence or wall
- Multiple Sensing & detection ability in the same Transducer & Communication lines
- Transducers are fully encapsulated IP67 standard
- Decentralization the detection and analysis CPU in each sensor
- Active mechanical self test using coin vibrator Patented pending
- Build-in temperature / fire detector and magnetic sensor for passageway
- "Smart Patrol" Magnetic based advanced patrol documentation system
- Easy interface either with PC/Laptop or off the shelf Alarm systems using Sabra HUB
- Affordable

### In order to be and not just to feel safe!

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