# FOTAS

# SINGLE OR DUAL CHANNEL PERIMETER SECURITY

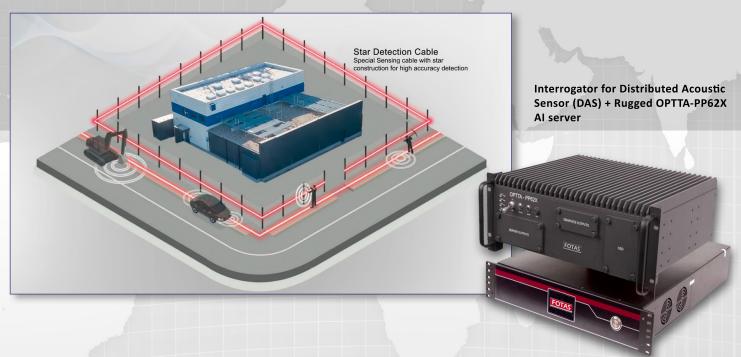
Fiber Optic Based Acoustic Sensing System

# **MAIN CHARACTERISTICS**

**FOTAS** is an innovative acoustic sensor that operates on a fiber optic infrastructure, making it highly adaptable to various terrains. Fotas is specifically designed to enhance the security of fences and borders, providing early threat warnings for timely response.

The system utilizes laser beams emitted from a laser source, which traverse the entire infrastructure, gathering crucial information as they travel through the fiber optic cable. Upon returning to the FOTAS system, advanced computer software meticulously analyzes the laser beams, effectively filtering out any unwanted noise or irrelevant data. Ultimately, the intelligent FOTAS AI accurately classifies the alarms generated. Live monitoring of actions causing vibrations is possible through the system, enabling real-time surveillance. Noisy areas can be pinpointed and deactivated based on user preferences. All alarms are promptly received and reported via the intuitive web interface, where they are stored and can be easily exported for comprehensive analysis.

**FOTAS** is a proven early warning security system, renowned for its effectiveness in detecting third-party interventions, illegal crossing attempts, and unauthorized excavations across vast distances, spanning from several kilometers to thousands of kilometers.



### **Applications Types**

With FOTAS a large variety of activities can be detected remotely along a fiber line, such as the below applications:

### Environmental and Border Security

A detection fiber can detect unauthorized excavations, when laid on the ground; and it can detect climbing and cutting at tempts when mounted along a wire-fence.

# Telecom Line Security

The advanced FOTAS artificial intelligence allows the detection of multiple events, and offers a wide range of ap plication areas. Damages along communication lines can be monitored in-real time and any unauthorized excava tions can be easily detected.

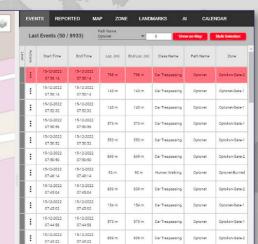
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# **FUNCTIONAL FEATURES**

- The fiber optic line can be monitored live using GIS based Human Machine Interface.
- No installation is required to use the operator interface.
- Types and regions of threats can be defined along the desired regions of fiber cables.
- Past threats can be accessed and analysed.
- Access can be granted to multiple users.
- With CCTV integration, threat zones can located and visually monitored.
- FOTAS can be integrated with other security solutions.
- Access to FOTAS with multiple devices via web interface
- Fast and reliable with 24/7 access
- Up to 10 km of real-time security with one device
- Up to 4 m sensitivity range
- · Ease of use and installation
- Compatible with previously deployed fiber cables and can have dedicated fiber cables
- No electricity or electronic devices needed along the protected area



AICP-X64 Standard AI server pro FOTAS



**FOTAS - WEB Interface overview** 

# Alam Car Trespassing Disabled: 15-12-2022 Ors. Or5. Zone: Opposion-Cate-2 Perimeter Dist. (m): 798 m Latitude: 15-693734 Longitude: 15-693734 Doubles: International Conference of the Confere

## **TECHNICAL SPECIFICATIONS**

**Detection Distance** Deppend on type, see table bellow Position Accuracy 100 km 100 km Single Channel ≥ 10 m Position Accuracy 10 km 10 km Single Channel ≥ 4 m **Number of Channels** Deppend on type, see table bellow **Dimensions and Weight** 49 cm (19") x 50 cm x 8.9 cm (2U), 8 kg **Electrical Requirements** Input voltage: 115/220 VAC, 50/60 Hz Average Power Consumption: about 125 W Maximum Power Requirement: 250 W **Operating Conditions** Sensing Cable: -40 - +70 °C SL-50 Device: 0 – 60 °C (AC environment) Web 2.0 - Mobile Compatible **System Interface**