FOTAS™

Fiber Optic Based Acoustic Sensing System
SL-50

This product is developed with the cooperation of SAMM and TÜBİTAK BİLGEM

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FOTAS™

FOTAS Application Types

With **FOTAS SL-50** a large variety of activities can be detected remotely along a fiber line, such as the below applications:

1 Environmental and Border Security

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

2 Pipeline Security

When deployed along an oil, natural gas or water pipeline, **FOTAS SL-50** can detect leakage, sabotage and unauthorized excavations.

3 Telecom Line Security

Damages along communication lines can be monitored in-real time and any unauthorized excavations can be easily detected.

The advanced **FOTAS** artificial intelligence allows the detection of multiple events, and offers a wide range of application areas.

SL-50

FOTAS Application Areas

- Industrial, Residential and Commercial Sites Security
- Oil, Natural Gas and Water Pipelines
- Military, Public and Private Facilities Security
- Airports, Railways and Highways Security
- Power Plants Security
- Border Security
- Security of Mining Enterprises

Technical Specifications

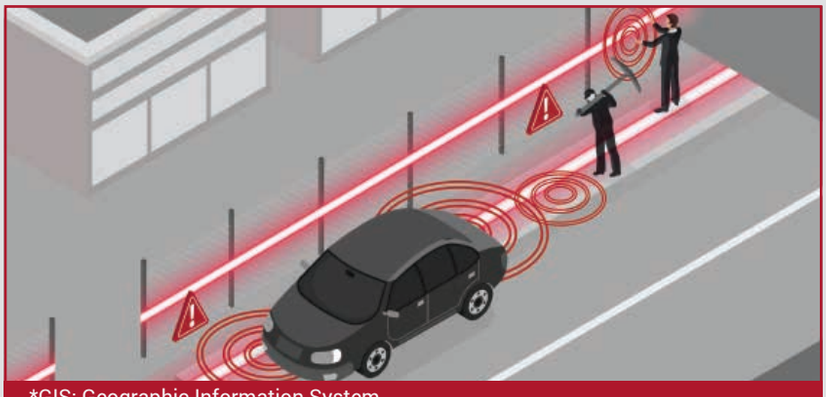
Detection Distance	Up to 50 km
Position Accuracy	Less than 10 m
Number of Channels	1 fiber per device
Dimensions and Weight	49 cm(19") x 50 cm x 8.9 cm(2U), 8 kg 49 cm (19") x 65 cm x 17.8 cm (4U), 20 kg
Electrical Requirements	Input voltage: 115/220 VAC 50/60 Hz Average Power Consumption: ~400 W Maximum Power Requirement: 675 W
Operating Conditions	Fiber Optic Sensor Cable: [-40, 70] °C Monitoring Device: [0, 60] °C (AC environment)
System Interface	Web 2.0 - Mobile Compatible

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 analyzed.
- Access can be granted to multiple users.
- With CCTV integration, threat zones can located and visually monitored.

General Features

- Access to **FOTAS** with multiple devices via web interface
- Fast and reliable with 24/7 access
- Up to 50 km of real-time security with one device
- Up to 10 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



*GIS: Geographic Information System

As the development process continues, some features may change without prior notice.