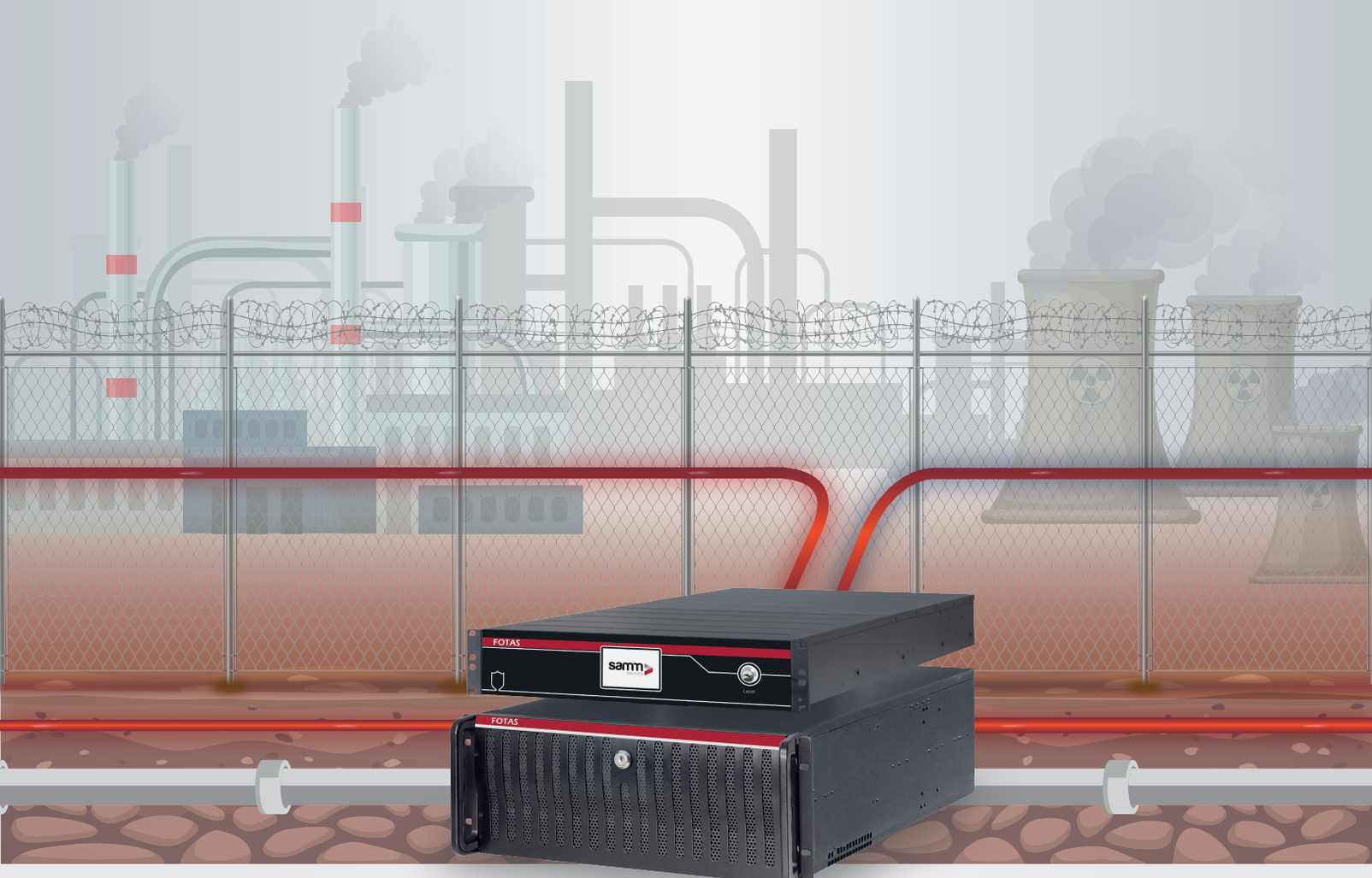
FOTAS™



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

SAMM Teknoloji

- fotas.samm.com
- fotas@samm.com
- +90 444 17 26

TÜBİTAK BİLGEM

- bilgem.tubitak.gov.tr
- bilgem@tubitak.gov.tr
- +90 262 648 10 00

Fiber Optic Based Distributed Acoustic Sensing System

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 under the ground, and it can detect climbing and cutting attempts when mounted on a wire-fence.
- **Pipeline Security**

  When deployed along an oil, natural gas or water pipeline, FOTAS can detect sabotage and unauthorized excavations.
- **Telecom Line Security**

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

Functional Features

- The fiber optic line can be monitored live using GIS (Geographic Information System) 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 be located and visually monitored, ONVIF supported.
- FOTAS can be integrated with other security solutions.

General Features

- Access to FOTAS with multiple devices via web interface
- Fast and reliable with 24/7 access
- Up to 100 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

Technical Specifications

Models	Single Channel				Dual Channel			
	SF-5	SF-10	SF-30	SL-50	DF-5	DF-10	DF-30	DL-50
Detection Distance	5 km	10 km	30 km	50 km	Dual 5 km Single 10 km	Dual 10 km Single 20 km	Dual 30 km Single 60 km	Dual 50 km Single 100 km
Position Accuracy	4 m		10 m		4 m		10 m	
Number of Channels	1 fiber per device				2 fibers per device			

Models	All Models	
Dimensions and Weight	Interrogator Unit	49 cm(19") x 50 cm x 8.9 cm(2U), 8 kg
	Processor Unit	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	Sensing Cable	-40°C ~ 70°C
	Interrogator and Processor Units	0°C ~ 60°C (AC environment)
System Interface	Web 2.0	Mobile Compatible
Integrations	Genetec™ Security Center and other video management systems	