OVERVIEW

FIPRO PFO-FIP-50D can detect various types of activities analyzing in real time, and remotely, signals captured by a distributed fiber optic cable installed along the sensitive area.

The advanced FIPRO artificial intelligence allows the detection of simultaneous multiple events covering a wide range of applications, such as:

• Perimeter and Border Security
Thanks to advanced AI algorithms, the fiber optic cable installed underground can detect any kind of unauthorized activity such as excavations, walking, running, car/trucks passing nearby.
When the fiber optics is installed on a fence FIPRO PFO-FIP-50D can detect climbing and cutting attempts.

• Environmental and Pipeline Security
Thanks to its long-range scope, FIPRO PFO-FIP-50D is the ideal solution for any kind of pipeline protection (oil&gas, cupper cable conduits, etc), detecting potential leakage, sabotage, and any kind of unauthorized activity such as excavations, walking, running, car/trucks passing nearby

• Physical Cyber Security and Telecom Data Protection
Physical Cyber Security is a corner stone of data protection and FIPRO PFO-FIP-50D is the perfect for this kind of application.
By leveraging already exiting fiber optic lines, the system can detect potential damages along communication lines and monitor in-real time any kind of unauthorized activities.

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ADVANTAGES
- No power supply on the field required.
- Digital signal analysis with programmable pattern recognition.
- Filters and masks to change sensibility for every zone.
- Not affected by electromagnetic disturbs and lightening.
- Not affected by weather conditions.
- Point of intrusion with precision of few meters.
- Existing spare fibers can be used.

APPLICATIONS AREA
- Industrial, residential, and commercial sites security
- Oil&Gas, copper cable and water pipelines
- Military facilities security
- Homeland security: airports, railways, and highways
- Power plants security
- Border Security
- Telecom lines protections

OPERATION
- The system can be monitored by and advanced and user-friendly interface.
- Desired number, length and sensitivity of each zone can be set up along the fiber optic.
- Local recording of events can be accessed for monitoring and analysis.
- Multi users.
- Integration with CCTV cameras through GPS Standard's SCS or through any third-party VMS.

CHARACTERISTICS
- 24/7 remote access to FIPRO through multiple devices via web interface
- Real-time monitoring
- Up to 100 km with one single device
- Cross point technology with an alarm point approximation of 10 m
- Easy to use and to install
- Compatible with previously deployed fiber cables and can have dedicated fiber cables
- No power supply on the field required

TECHNICAL SPECIFICATIONS

Detection Distance	Up to 100 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: ~800 W Maximum Power Requirement: 1350 W
Operating Conditions	Fiber Optic Sensor Cable: [-40, 70] °C Monitoring Device: [0, 60] °C (AC environment)
System Interface	Web 2.0 - Mobile Compatible

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