

# New Fiber Optic Sensing Technology Management Platform



## Overview

DigitalAsset™ uses advanced vibration sensing and AI-driven analytics to transform existing optical fiber into a vast network of environmental sensors. The Weatherford Autonomous Surveillance Platform (WASP) and flow intelligence unite to give you full-time visibility—tracking infrastructure, monitoring reservoirs, spotting issues early, and surveilling your entire asset from anywhere, onshore to offshore, surface to subsea. It can be used for detecting pipelines, utility tunnels, tracks, fences, water areas, and gas. Leveraging the distributed optical fiber vibration. London, 4th November 2025 – EXA Infrastructure, the largest dedicated digital infrastructure platform connecting Europe and North America, today announced the deployment of FiberSense's state-of-the-art DigitalAsset™ monitoring and protection service across its core fiber network in Italy. The Fiber Monitoring System is a comprehensive platform for managing and maintaining fiber optic networks, utilizing DGPS and Cable Fault Locator technologies for precise fault detection and reduced restoration times. Continuous health is ensured through predictive maintenance and real-time. SOCOTEC develops optic fibre sensors and innovative acquisition systems for industrial measurement in challenging environments (cryogenic, ATEX, confined spaces, long-distance, underground, humid conditions). We possess expertise in electronics, optics, and computing within a dynamic, experienced.



## Article Content

### Optical Fiber Sensors and Sensing Networks: Overview

Optical fiber sensors present several advantages in relation to other types of sensors. These advantages are essentially related to the optical fiber

### Optical Fiber-Based Structural Health Monitoring:

Structural health monitoring (SHM) plays a vital role in ensuring the safety, durability, and performance of civil infrastructure. This review delves into

### Optical Fiber Sensing

Int Global Partners recently teamed up with Huawei to deploy an innovative AI-powered optical fiber sensing solution, successfully applying it across more than 100 kilometers in Kazakhstan for

### Status and future development of distributed optical fiber sensors for ...

The versatility of the fiber sensors to obtain reliable and precise measurements while maintaining compact size and reduced costs has no comparison in sensing technology. However,

### Emerging Technologies for Fiber-Optic-Based Sensors in Biomedical ...

Fiber-optic sensor (FOS) technology, a proximate of optoelectronics and fiber-optic communications, has profound ability to replace the existent biomedical sensors. Subsequent mass

### Distributed Sensing Applications | DAS & DTS

Explore distributed sensing applications with DAS & DTS—real-time fiber optic monitoring for pipelines, energy, telecom, borders, and more.

### Fiber optic sensing technology in underground pipeline health ...

Traditional sensors have limitations in all-round and real-time monitoring, while fiber optic sensors offer several advantages, including large coverage, high sensitivity, long sensing distance,

### Fiber Optic Sensing Technology and Vision Sensing

Structural health monitoring is currently a crucial measure for the analysis of structural safety. As a structural asset management approach, it can

### Turning Fiber into a Sensing System: The Magic of Fiber

From energy and transportation to agriculture and cybersecurity, fiber sensing is quietly revolutionizing industries with applications once thought

### Recent Progress of Fiber-Optic Sensors for the

The purpose of this review article is devoted to presenting a summary of the basic principles of various fiber-optic sensors, classification and principles

Fiber Optic Sensing: Revolutionizing Industries

Learn how fiber optic sensing technology is providing real-time monitoring, enhancing safety, and enabling predictive maintenance across

The Role of Fiber Optic Sensors for Enhancing Power System

The integration of low carbon technologies and more efficient power system operation are key components in the transition to a sustainable future. To support this, power system operators

Advanced Fiber Optic Sensing Technology in

Finally, it conducts in-depth research on the calibration technology of FBG sensors. Through comprehensive analysis of these four aspects, the

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Optic Fiber monitoring

SOCOTEC develops optic fibre sensors and innovative acquisition systems for industrial measurement in challenging environments (cryogenic, ATEX, confined

Fiber Monitoring and Optical Sensing Strengthening

Operators of critical infrastructure, such as fiber optic networks, must adapt to new measures and implement comprehensive risk management

Distributed optical fibre sensor for infrastructure monitoring: Field ...

Challenges and potential future works in implementing distributed optical fibre sensor for large infrastructure health monitoring are presented. For the past decades, the applicability of

Fiber Monitoring System

The Fiber Monitoring System is a comprehensive platform for managing and maintaining fiber optic networks, utilizing DGPS and Cable Fault Locator

INTELLIGENT SURVEILLANCE

WASP Distributed Fiber Optic Sensing (DFOS) brings unprecedented visibility to subsurface activity—capturing an interpreting real-time distributed acoustic

Distributed Fiber Optic Sensing | OptaSense

Discover monitoring solutions utilizing distributed fiber optic sensing technology and real-time applications for high-value assets.

A Review on the Advances in Distributed Fibre Optic Sensing Technology ...

Distributed fibre optic sensing (DFOS) technology is being widely exploited in many civil infrastructure monitoring applications due to its inherent advantages over conventional sensing

Fiber-Optic Sensing Technologies for Structural

Submissions should provide rigorous validation, meaningful comparison of sensing systems or data interpretation approaches where appropriate, and explicit

Turning Fiber into a Sensing System: The Magic of Fiber

Imagine a world where the Internet doesn't just connect but senses—detecting earthquakes, monitoring battery health, or safeguarding

Fiber Optic Circulators Market Size, Trends, 2026-2033 ...

Applications span from advanced optical communication systems, data center interconnects, and sensing technologies to emerging quantum communication platforms, with North America and

New advances in fiber optic technology for environmental monitoring ...

The concept of long-range DAS interrogation utilizing existing telecommunication cables for oceanic monitoring has been successfully demonstrated in several field trials. Real-time monitoring

## Contact Us

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