

# Global Single-Mode Distributed Fiber Optic Sensing Market Growth 2025-2031

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## Abstracts

The global Single-Mode Distributed Fiber Optic Sensing market size is predicted to grow from US\$ 844 million in 2025 to US\$ 1409 million in 2031; it is expected to grow at a CAGR of 8.9% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Single-Mode Distributed optical fiber sensors (DOFS) based on Raman, Brillouin, and Rayleigh scattering have recently attracted considerable attention for various sensing applications, especially large-scale monitoring, owing to their capacity for measuring strain or temperature distributions. Single mode cable with 9 micron glass core.

United States market for Single-Mode Distributed Fiber Optic Sensing is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Single-Mode Distributed Fiber Optic Sensing is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Single-Mode Distributed Fiber Optic Sensing is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Single-Mode Distributed Fiber Optic Sensing players cover Yokogawa

Electric Corporation, Weatherford International plc, Luna Innovations Incorporated, OFS Fitel LLC, Bandweaver, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Single-Mode Distributed Fiber Optic Sensing Industry Forecast" looks at past sales and reviews total world Single-Mode Distributed Fiber Optic Sensing sales in 2024, providing a comprehensive analysis by region and market sector of projected Single-Mode Distributed Fiber Optic Sensing sales for 2025 through 2031. With Single-Mode Distributed Fiber Optic Sensing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-Mode Distributed Fiber Optic Sensing industry.

This Insight Report provides a comprehensive analysis of the global Single-Mode Distributed Fiber Optic Sensing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Single-Mode Distributed Fiber Optic Sensing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single-Mode Distributed Fiber Optic Sensing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Mode Distributed Fiber Optic Sensing and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Single-Mode Distributed Fiber Optic Sensing.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Mode Distributed Fiber Optic Sensing market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

10G

40G

100G

**Segmentation by Application:**

Temperature

Acoustic

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Yokogawa Electric Corporation

Weatherford International plc

Luna Innovations Incorporated

OFS Fitel LLC

Bandweaver

OmniSens S.A.

Brugg Kabel AG

AP Sensing GmbH

AFL

Ziebel AS

Schlumberger Limited

Halliburton Company

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Single-Mode Distributed Fiber Optic Sensing market?

What factors are driving Single-Mode Distributed Fiber Optic Sensing market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Single-Mode Distributed Fiber Optic Sensing market opportunities vary by end market size?

How does Single-Mode Distributed Fiber Optic Sensing break out by Type, by Application?

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