

Israeli New Fiber Optic Sensor Company



Article Overview

Prisma Photonics is an Israeli startup developing AI-driven fiber-optic sensing technology for real-time monitoring of critical infrastructure.

Prisma Photonics, founded in 2017 by electrical engineer Dr. Eran Inbar, specializes in fiber-optic sensing systems that monitor large-scale infrastructure such as power grids, pipelines, secured compounds, and military perimeters . The company's technology converts existing optical fibers into intelligent sensor networks, enabling real-time detection and classification of threats like wildfires, ice, wind, physical damage, and grid congestion without installing additional sensors .

Technology and Applications

Prisma's Hyper-Scan AI platform leverages machine learning and advanced algorithms to process optical fiber signals, providing meter-level accuracy in detecting events across hundreds of kilometers . The system supports:

- Power transmission optimization: Boosting throughput by 20–30% without physical upgrades .
- Renewable energy integration: Dynamically monitoring line conditions to accommodate wind and solar power .
- Security and defense: Protecting military installations and long remote boundaries .
- Infrastructure resilience: Early detection of extreme weather or physical damage to prevent outages . The technology is already deployed by 15 Tier-1 transmission operators in the U.S. and Europe, and Prisma is expanding into Latin America and Germany, including a partnership with TransnetBW to monitor 120 km of high-volta...

Article Content

Top 100 Optical Sensor Manufacturers in Israel (2026) | ensun

Discover all relevant Optical Sensor Manufacturers in Israel, including SemiConductor Devices and Mobileye, an Intel Company

Prisma Photonics

Prisma Photonics' ability to reduce false-alarm-rate to minimum, enable target classification (leakage, digging, etc.), increase

Top 100 Photonics Companies in Israel (2026) | ensun

IL Photonics specializes in selling a variety of photonic systems in Israel, including interferometers, stroboscopes, and spectroscopic

Top Fiber Optic Telecommunications Companies in Israel

When exploring the Fiber Optic Telecommunications industry in Israel, several key considerations come into play. The regulatory

Prisma Photonics Raises \$30M to Scale AI-Driven Fiber Sensing

TEL AVIV, Israel, Oct. 16, 2025 — Prisma Photonics, a deep-tech company adapting existing optical fiber into an advanced

How is water powering the Israeli fiber optics revolution?

The most unlikely new player in the country is fast-tracking the ability for Israelis to have access to high-speed fiber

Distributed Fiber Optic Sensor Companies

Distributed Fiber Optic Sensor industry insights on factors that are driving the growth of the Distributed Fiber Optic Sensor Market

18 Fiber Optic Sensor Manufacturers in 2026

This section provides an overview for fiber optic sensors as well as their applications and principles. Also, please take a look at the

Top Companies in Distributed Fiber Optic Sensors 2034

Delve into the world of cutting-edge sensing technology as we unveil the top companies revolutionizing the field of distributed fiber

Top Fiber optic sensing companies | VentureRadar

Top companies for Fiber optic sensing at VentureRadar with Innovation Scores, Core Health Signals and more. Including Fervo

Fiber Optic Products | SPG | Nesher

SPG Develops Manufacture and Integrates state-of-the-art Fiber Optic communication products & systems, using innovative

Fiber Optic Design Company in Israel | izakscientific

The fiber cores can be of the following types: Plastic: The plastic-fiber core contains one or more acrylic-resin (PMMA synthetic

Top 50 Sensor Companies in Israel

Top Sensor Companies In Israel Browse 50 Sensor companies in Israel, including 50 with websites, 44 with employee estimates, 42

Fiber Sensing

FAST Laser is a professional fiber optic company, and Omnisesns is a world leader in high-performance fiber optic monitoring. This

Molex acquires Israeli optical chip startup Teramount for \$430 million

Teramount, which develops fiber-optic connectivity solutions for chips used in artificial intelligence infrastructure, data

Israel Distributed Fiber Optic Sensor Market | Size 2032

8 Israel Distributed Fiber Optic Sensor Market Key Performance Indicators 8.1 Number of new infrastructure projects incorporating

AI infrastructure monitoring co Prisma Photonics raises \$20m

Israeli AI-driven large-scale infrastructure monitoring company Prisma Photonics today announced the completion of a \$20 million

Special Issue "Fiber Optic Sensors and Applications": An Overview

We present here the recent advance in exploring new detection mechanisms, materials, processes, and applications of fiber optic

Optical Fibre-Based Sensors—An Assessment of Current Innovations

Optical fibre sensors are an essential subset of optical fibre technology, designed specifically for sensing and measuring several

Home | Fiber SenSys Inc.

Fiber SenSys®, Inc., (FSI) is the market-leading manufacturer of fiber-optic intrusion detection systems for outdoor perimeters and

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