Fiber Bragg Grating Market to Garner US$ 7,435.3 million, Globally, by 2028 at 25.7% CAGR: The Insight Partners

Use of Fiber Bragg Grating in Sensing Applications to Provide Growth Opportunities for Fiber Bragg Grating Market During 2021–2028

the insight partners - logo

NEW YORK, UNITED STATES, April 6, 2022 /EINPresswire.com/ -- According to the new research report published by The Insight Partners, titled "Fiber Bragg Grating Market Forecast to 2028 – COVID-19 Impact and Global Analysis – by Type, Application, Industry, and Geography," the Fiber Bragg Grating Market Size is projected to reach US$ 7,435.3 million by 2028 from US$ 1,500.6 million in 2021; it is expected to grow at a CAGR of 25.7% from 2021 to 2028.

Strategic Insights

Report Coverage	Details
Market Size Value in	US$ 1,500.6 Million in 2020
Market Size Value by	US$ 7,435.3 Million by 2028
Growth rate	CAGR of 25.7% from 2021-2028
Forecast Period	2021- 2028
Base Year	2020
No. of Pages	168
No. Tables	87

No. of Charts & Figures 83

Historical data available Yes

Segments covered Type, Application, and Industry

Regional scope North America; Europe; Asia Pacific; Latin America; MEA

Country scope US, UK, Canada, Germany, France, Italy, Australia, Russia, China, Japan, South Korea, Saudi Arabia, Brazil, Argentina

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Download Sample PDF Brochure of Fiber Bragg Grating Market Growth Research Report at https://www.theinsightpartners.com/sample/TIPRE00012723/

APAC is anticipated to be the highest revenue-generating region in the global fiber bragg grating market during the forecast period. China holds the largest market share. APAC is home to numerous SMEs, which capitalize heavily on advanced technologies, and this factor is favoring the fiber bragg grating market in the region. China, India, Japan, South Korea, Singapore, Taiwan, and Malaysia are among the continuously growing economies in this region. Manufacturers have a significant opportunity to expand their business by tapping into different geographies. As one of the world's fastest-growing economies, Asia Pacific has enormous growth potential.

Fiber bragg grating is changing at an exponential rate. The production cost of fiber Bragg grating is high, which restricts its production. Hence, need to develop advanced technologies offering lower production costs is important. Therefore, to overcome the challenges faced by traditional production methods indulging the high cost of fiber bragg grating, automated systems are developed. To fulfill the requirement of flexible manufacturing of high-quality, cost-effective, and consistent fiber bragg grating on a production basis, Sweden-based Northlab Photonics developed an automated fabrication system. The company's NORIA tool combines a Coherent ExciStar XS excimer laser operating at 193 nm, up to 16 Ibsen Photonics phase masks, beam-conditioning optics, automated mechanics, and control software to provide pushbutton fiber Bragg grating manufacture. The new automated system allows essentially pushbutton fiber Bragg grating production, which assists in decreasing the unit cost for fiber Bragg grating production and gives fiber Bragg grating an exceptional unit-to-unit quality and consistency.

Inquire before Buying at - https://www.theinsightpartners.com/inquiry/TIPRE00012723/

FBGs are being increasingly adopted across numerous applications, owing to their advantages such as direct absolute measurement, unique wavelength multiplexing capability, and nonconductivity. Moreover, they are electrically passive and immune to EMI-induced noise. The

fiber Bragg grating sensors mounting is like conventional gages. Also, they are available in different mounting options and form factors. When fiber Bragg grating is used with a high-power tunable laser, they can conduct measurements over long distances with minimal or no loss in signal integrity. In addition, every optical channel can measure dozens of fiber Bragg grating sensors, unlike electrical sensing systems. This, in turn, lowers the size, complexity, and weight of measurement systems.

Fiber Bragg Grating Market: Industry Overview

Based on industry, the fiber Bragg grating market is categorized into telecommunication, aerospace, energy and utilities, transportation, and others. The aerospace segment is expected to grow at the fastest CAGR. For aerospace applications, fiber Bragg grating sensors are developed with a rugged package to withstand harsh environments. The growing commercial aviation, owing to the rise in consumer income among the masses and the emergence of low-cost carrier airlines, is subsequently boosting the growth of the aerospace industry, thereby driving the fiber Bragg grating market.

Fiber Bragg Grating Market: Competitive Landscape and Key Developments

FBGS Technologies GMBH, HBM Fibersensing S.A., ITF Technologies, Ixblue Photonics, and Micron Optics (Luna Innovations) are among the key players profiled during the study of the fiber bragg grating market. In addition, several other essential market players were also studied and analyzed to get a holistic view of the market and its ecosystem.

In June 2021, FBGS Technologies added a new member, FBG-Scan 915-EP, to its flagship series of spectrometer-based optical engines. This upgrade offers 15 channels in a single device without fewer sensing points per channel.

In 2020, Luna Innovation Incorporated signed a US$ 6.2 million deal with Lockheed Martin to extend their long-term relationship, resulting in the development of new optical measurement products, which ensures that the global fleet of F-35 aircraft is ready for service.

In 2018, Proximion AB entered into a development partnership for the industrialization of fiber optic sensing systems with SKF. The two companies are working together to combine SKF's fiber optic bearing sensing technology with Proximion's application integration experience and knowledge in developing and producing advanced fiber optic sensors and data collection hardware units.

Fingerprint Sensor Market 2028 Growth Trends, Share - Global Analysis and Forecasts - https://www.theinsightpartners.com/reports/fingerprint-sensor-market

Torque Sensor Market 2028 By Product Types, Application, Technology and Geography - https://www.theinsightpartners.com/reports/torque-sensor-market

Parking Sensors Market 2028 by Types, Application, Technology, Opportunities, End Users and Regions - https://www.theinsightpartners.com/reports/parking-sensors-market

About Us:

The Insight Partners is a one stop industry research provider of actionable intelligence. We help our clients in getting solutions to their research requirements through our syndicated and consulting research services. We specialize in industries such as Semiconductor and Electronics, Aerospace and Defense, Automotive and Transportation, Biotechnology, Healthcare IT, Manufacturing and Construction, Medical Device, Technology, Media and Telecommunications, Chemicals and Materials.

Contact Us:

If you have any queries about this report or if you would like further information, please contact us:

Contact Person: Sameer Joshi

E-mail: sales@theinsightpartners.com

Phone: +1-646-491-9876

Press Release: https://www.theinsightpartners.com/pr/fiber-bragg-grating-market

More Research: https://industrialit.com.au/author/theinsightpartners/

Sameer Joshi
The Insight Partners
+91 96661 11581
email us here
Visit us on social media:
Facebook
Twitter
LinkedIn