

Global Fiber Bragg Grating (FBG) Market Analysis 2013-2018 and Forecast 2019-2024

<https://marketpublishers.com/r/G8E63659225EN.html>

Date: March 2019

Pages: 95

Price: US\$ 2,980.00 (Single User License)

ID: G8E63659225EN

Abstracts

SNAPSHOT

A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and transmits all others. This is achieved by adding a periodic variation to the refractive index of the fiber core, which generates a wavelength specific dielectric mirror. An FBG is an invisible reflector inside the core of the fiber that is set to a specific wavelength of light. When the fiber where the FBG is located is exposed to strain or temperature, the FBG's "center wavelength" shifts to a higher or lower wavelength. The direction and magnitude of the shift is proportional to the change in strain or temperature.

The global Fiber Bragg Grating (FBG) market will reach xxx Million USD in 2019 and CAGR xx% 2019-2024. The report begins from overview of Industry Chain structure, and describes industry environment, then analyses market size and forecast of Fiber Bragg Grating (FBG) by product, region and application, in addition, this report introduces market competition situation among the vendors and company profile, besides, market price analysis and value chain features are covered in this report.

Product Type Coverage (Market Size & Forecast, Major Company of Product Type etc.):

Fiber Bragg Grating Filter

Fiber Bragg Grating Sensors

Others

Company Coverage (Sales Revenue, Price, Gross Margin, Main Products etc.):

Micron Optics

Proximion AB

HBM FiberSensing

ITF Technologies Inc

FBGS Technologies GmbH

Technica

iXFiber

Smart Fibres Limited

fos4x

Advanced Optics Solutions GmbH

Wuhan Ligong Guangke

TeraXion

FBG Korea

GEOPTEX bvba (FOS&S)

Alnair Labs Corporation

Application Coverage (Market Size & Forecast, Different Demand Market by Region, Main Consumer Profile etc.):

Optical Communication

Aerospace Applications

Energy industry

Transportation

Geo-Technical & Civil Engineering

Others

Region Coverage (Regional Production, Demand & Forecast by Countries etc.):

North America (U.S., Canada, Mexico)

Europe (Germany, U.K., France, Italy, Russia, Spain etc.)

Asia-Pacific (China, India, Japan, Southeast Asia etc.)

South America (Brazil, Argentina etc.)

Middle East & Africa (Saudi Arabia, South Africa etc.)

Contents

1 INDUSTRY OVERVIEW

- 1.1 Fiber Bragg Grating (FBG) Industry
 - 1.1.1 Overview
 - 1.1.2 Development of Fiber Bragg Grating (FBG)
- 1.2 Market Segment
 - 1.2.1 Upstream
 - 1.2.2 Downstream
- 1.3 Cost Analysis

2 INDUSTRY ENVIRONMENT (PEST ANALYSIS)

- 2.1 Policy
- 2.2 Economics
- 2.3 Sociology
- 2.4 Technology

3 FIBER BRAGG GRATING (FBG) MARKET BY TYPE

- 3.1 By Type
 - 3.1.1 Fiber Bragg Grating Filter
 - 3.1.2 Fiber Bragg Grating Sensors
 - 3.1.3 Others
- 3.2 Market Size
- 3.3 Market Forecast

4 MAJOR COMPANIES LIST

4.FIBER BRAGG GRATING (FBG) MICRON OPTICS (COMPANY PROFILE, SALES DATA ETC.)

- 4.2 Proximion AB (Company Profile, Sales Data etc.)
- 4.3 HBM FiberSensing (Company Profile, Sales Data etc.)
- 4.4 ITF Technologies Inc (Company Profile, Sales Data etc.)
- 4.5 FBGS Technologies GmbH (Company Profile, Sales Data etc.)
- 4.6 Technica (Company Profile, Sales Data etc.)
- 4.7 iXFiber (Company Profile, Sales Data etc.)

- 4.8 Smart Fibres Limited (Company Profile, Sales Data etc.)
- 4.9 fos4x (Company Profile, Sales Data etc.)
- 4.10 Advanced Optics Solutions GmbH (Company Profile, Sales Data etc.)
- 4.11 Wuhan Ligong Guangke (Company Profile, Sales Data etc.)
- 4.12 TeraXion (Company Profile, Sales Data etc.)
- 4.13 FBG Korea (Company Profile, Sales Data etc.)
- 4.14 GEOPTEX bvba (FOS&S) (Company Profile, Sales Data etc.)
- 4.15 Alnair Labs Corporation (Company Profile, Sales Data etc.)

5 MARKET COMPETITION

- 5.1 Company Competition
- 5.2 Regional Market by Company

6 DEMAND BY END MARKET

- 6.1 Demand Situation
 - 6.1.1 Demand in Optical Communication
 - 6.1.2 Demand in Aerospace Applications
 - 6.1.3 Demand in Energy industry
 - 6.1.4 Demand in Transportation
 - 6.1.5 Demand in Geo-Technical & Civil Engineering
 - 6.1.6 Demand in Others
- 6.2 Regional Demand Comparison
- 6.3 Demand Forecast

7 REGION OPERATION

- 7.1 Regional Production
- 7.2 Regional Market
- 7.3 by Region
 - 7.3.1 North America
 - 7.3.1.1 Overview
 - 7.3.1.2 by Country (U.S., Canada, Mexico)
 - 7.3.2 Europe
 - 7.3.2.1 Overview
 - 7.3.2.2 by Country (Germany, U.K., France, Italy, Russia, Spain etc.)
 - 7.3.3 Asia-Pacific
 - 7.3.3.1 Overview

7.3.3.2 by Country (China, India, Japan, Southeast Asia etc.)

7.3.4 South America

7.3.4.1 Overview

7.3.4.2 by Country (Brazil, Argentina etc.)

7.3.5 Middle East & Africa

7.3.5.1 Overview

7.3.5.2 by Country (Saudi Arabia, South Africa etc.)

7.4 Regional Import & Export

7.5 Regional Forecast

8 MARKETING & PRICE

8.1 Price and Margin

8.1.1 Price Trends

8.1.2 Factors of Price Change

8.1.3 Manufacturers Gross Margin Analysis

8.2 Marketing Channel

9 RESEARCH CONCLUSION

List Of Tables

LIST OF TABLES

Table Upstream Segment of Fiber Bragg Grating (FBG)

Table Application Segment of Fiber Bragg Grating (FBG)

Table Global Fiber Bragg Grating (FBG) Market 2013-2024, by Application, in USD Million

Table Major Company List of Fiber Bragg Grating Filter

Table Major Company List of Fiber Bragg Grating Sensors

Table Major Company List of Others

Table Global Fiber Bragg Grating (FBG) Market 2013-2018, by Type, in USD Million

Table Global Fiber Bragg Grating (FBG) Market 2013-2018, by Type, in Volume

Table Global Fiber Bragg Grating (FBG) Market Forecast 2019-2024, by Type, in USD Million

Table Global Fiber Bragg Grating (FBG) Market Forecast 2019-2024, by Type, in Volume

Table Micron Optics Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Micron Optics (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Proximion AB Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Proximion AB (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table HBM FiberSensing Overview List

Table Fiber Bragg Grating (FBG) Business Operation of HBM FiberSensing (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table ITF Technologies Inc Overview List

Table Fiber Bragg Grating (FBG) Business Operation of ITF Technologies Inc (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table FBGS Technologies GmbH Overview List

Table Fiber Bragg Grating (FBG) Business Operation of FBGS Technologies GmbH (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Technica Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Technica (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table ixFiber Overview List

Table Fiber Bragg Grating (FBG) Business Operation of ixFiber (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Smart Fibres Limited Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Smart Fibres Limited (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table fos4x Overview List

Table Fiber Bragg Grating (FBG) Business Operation of fos4x (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Advanced Optics Solutions GmbH Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Advanced Optics Solutions GmbH (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Wuhan Ligong Guangke Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Wuhan Ligong Guangke (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table TeraXion Overview List

Table Fiber Bragg Grating (FBG) Business Operation of TeraXion (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table FBG Korea Overview List

Table Fiber Bragg Grating (FBG) Business Operation of FBG Korea (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table GEOPTEX bvba (FOS&S) Overview List

Table Fiber Bragg Grating (FBG) Business Operation of GEOPTEX bvba (FOS&S) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Alnair Labs Corporation Overview List

Table Fiber Bragg Grating (FBG) Business Operation of Alnair Labs Corporation (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Global Fiber Bragg Grating (FBG) Sales Revenue 2013-2018, by Company, in USD Million

Table Global Fiber Bragg Grating (FBG) Sales Revenue Share, by Company, in USD Million

Table Global Fiber Bragg Grating (FBG) Sales Volume 2013-2018, by Company, in Volume

Table Global Fiber Bragg Grating (FBG) Sales Volume Share 2013-2018, by Company, in Volume

Table Major Consumers List and Overview

Table Regional Demand Comparison List

Table Major Application in Different Regions

Table Fiber Bragg Grating (FBG) Demand Forecast 2019-2024, by Application, in USD Million

Table Fiber Bragg Grating (FBG) Demand Forecast 2019-2024, by Application, in Volume

Table Fiber Bragg Grating (FBG) Production 2013-2018, by Region, in USD Million

Table Fiber Bragg Grating (FBG) Production 2013-2018, by Region, in Volume
Table Global Fiber Bragg Grating (FBG) Market 2013-2018, by Region, in USD Million
Table Global Fiber Bragg Grating (FBG) Market Share 2013-2018, by Region, in USD Million
Table Global Fiber Bragg Grating (FBG) Market 2013-2018, by Region, in Volume
Table Global Fiber Bragg Grating (FBG) Market Share 2013-2018, by Region, in Volume
Table North America Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in USD Million
Table North America Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in Volume
Table Europe Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in USD Million
Table Europe Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in Volume
Table Asia-Pacific Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in USD Million
Table Asia-Pacific Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in Volume
Table South America Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in USD Million
Table South America Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in Volume
Table Middle East & Africa Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in USD Million
Table Middle East & Africa Fiber Bragg Grating (FBG) Market Size 2013-2018, by Country, in Volume
Table Fiber Bragg Grating (FBG) Market Forecast 2019-2024, by Region, in USD Million
Table Fiber Bragg Grating (FBG) Market Forecast 2019-2024, by Region, in Volume
Table Price Factors List

List Of Figures

LIST OF FIGURES

Figure Global Fiber Bragg Grating (FBG) Market Growth 2013-2018, by Type, in USD Million

Figure Global Fiber Bragg Grating (FBG) Market Growth 2013-2018, by Type, in Volume

Figure North America Fiber Bragg Grating (FBG) Market Concentration, in 2018

Figure Europe Fiber Bragg Grating (FBG) Market Market Concentration, in 2018

Figure Asia-Pacific Fiber Bragg Grating (FBG) Market Concentration, in 2018

Figure South America Fiber Bragg Grating (FBG) Market Concentration, in 2018

Figure Middle East & Africa Fiber Bragg Grating (FBG) Market Concentration, in 2018

Figure Fiber Bragg Grating (FBG) Demand in Optical Communication, 2013-2018, in USD Million

Figure Fiber Bragg Grating (FBG) Demand in Optical Communication, 2013-2018, in Volume

Figure Fiber Bragg Grating (FBG) Demand in Aerospace Applications, 2013-2018, in USD Million

Figure Fiber Bragg Grating (FBG) Demand in Aerospace Applications, 2013-2018, in Volume

Figure Fiber Bragg Grating (FBG) Demand in Energy industry, 2013-2018, in USD Million

Figure Fiber Bragg Grating (FBG) Demand in Energy industry, 2013-2018, in Volume

Figure Fiber Bragg Grating (FBG) Demand in Transportation, 2013-2018, in USD Million

Figure Fiber Bragg Grating (FBG) Demand in Transportation, 2013-2018, in Volume

Figure Fiber Bragg Grating (FBG) Demand in Geo-Technical & Civil Engineering, 2013-2018, in USD Million

Figure Fiber Bragg Grating (FBG) Demand in Geo-Technical & Civil Engineering, 2013-2018, in Volume

Figure Fiber Bragg Grating (FBG) Demand in Others, 2013-2018, in USD Million

Figure Fiber Bragg Grating (FBG) Demand in Others, 2013-2018, in Volume

Figure North America Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in USD Million

Figure North America Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in Volume

Figure Europe Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in USD Million

Figure Europe Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in

Volume

Figure Asia-Pacific Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in USD Million

Figure Asia-Pacific Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in Volume

Figure South America Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in USD Million

Figure South America Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in Volume

Figure Middle East & Africa Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in USD Million

Figure Middle East & Africa Fiber Bragg Grating (FBG) Market Size and Growth 2013-2018, in Volume

Figure Marketing Channels Overview

I would like to order

Product name: Global Fiber Bragg Grating (FBG) Market Analysis 2013-2018 and Forecast 2019-2024

Product link: <https://marketpublishers.com/r/G8E63659225EN.html>

Price: US\$ 2,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G8E63659225EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970