

Global FSO & VLC/Li-Fi Market Size study&Forecast, by Component (Light Emitting Diode, Photo Detector, Microcontroller) by Transmission Type (Unidirectional Transmission, Bidirectional Transmission) by Application (Smart Store, Street Light, Consumer Electronics, Defence and Security, Vehicle and Transportation, Aviation, Hospital, Underwater Communication, Hazardous Environment, Other)and Regional Analysis, 2022-2029

<https://marketpublishers.com/r/G8363B7E1585EN.html>

Date: March 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G8363B7E1585EN

Abstracts

Global FSO & VLC/Li-Fi Market is valued at approximately USD 1.7 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 40.3% over the forecast period 2022-2029. Data transmission across free space or using light is made possible by the technologies known as Free Space Optics (FSO) and Visible Light Communication (VLC). In contrast to VLC systems, which rely on LEDs with a bandwidth of 300MHz to 110GHz, FSO systems use an infrared laser beam. The two markets with the highest projected CAGRs are for VLC for undersea communications applications and FSO for healthcare applications. FSO and VLC are utilized more frequently as a result of their support for effective data transmission technologies that keep information secure as well as the growing level of market player cooperation. . The market value for free space optics (FSO) and visible light communication (VLC) will significantly increase as these technologies become more widely used to replace outdated technology. Rising collaboration between private players is driving the market significantly. In 2022, Acuity Brands (US) partnered recently with Spatial DNA (Canada) to introduce the Atrius IoT Partner program and leverage location-based data provided by Atrius Platform Services and Atrius-Ready Sensory Networks to build mobile

applications for indoor navigation and enterprise workflows. FSO is used to wirelessly transmit data for telecommunication and computer networking. The light in free space—which could be anything from a vacuum to outer space to air—is used for this purpose. Using visible light between 400 and 800 THz, visible light communication (VLC) is a wireless data transmission technique. This leads to adoption of FSO and VLC Li-Fi. However, the high cost of FSO & VLC/Li-Fi stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global FSO & VLC/Li-Fi Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific is the region with the dominating market share of FSO & VLC/Li-Fi. The region will hold the majority of the FSO & VLC/Li-Fi market in 2022. The region's FSO market is expanding due to the expansion of manufacturing facilities, the quick development of telecommunications infrastructure, and the rising need for CAD. North America currently is the fastest growing region for visible light communication (VLC) and free space optics (FSO). Market is fueled majorly by a substantial increase in finance and investment for the advancement of the underlying technology.

Major market player included in this report are:

FSONA Networks Corp

Wireless Excellence Limited

Signify Holding

Oledcomm

Lucibel

PureLiFi Limited

Acuity Brands, Inc.

Panasonic holdings Corporation

Fraunhofer Heinrich Hertz Institute (HHI)

Trimble Hungary Kft. Ltd.

Recent Developments in the Market:

In September 2021, Lucibel introduced Lucipanel Lifi, the third version of their Li-Fi product

In September 2020, Panasonic merged with Octasic Inc. and began working together.

Global FSO & VLC/Li-Fi Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Component, Transmission Type, Application, Region
Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World
Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Component offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:

Light Emitting Diode

Photo Detector

Microcontroller

By Transmission Type:

Unidirectional Transmission

Bidirectional Transmission

By Application:

Smart Store

Street Light

Consumer Electronics

Defence and Security

Vehicle and Transportation

Aviation

Hospital

Underwater Communication

Hazardous Environment

Other

By Region:

North America

U.S.

Canada

Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2029 (USD Billion)
 - 1.2.1. FSO & VLC/Li-Fi Market, by Region, 2019-2029 (USD Billion)
 - 1.2.2. FSO & VLC/Li-Fi Market, by Component, 2019-2029 (USD Billion)
 - 1.2.3. FSO & VLC/Li-Fi Market, by Transmission Type, 2019-2029 (USD Billion)
 - 1.2.4. FSO & VLC/Li-Fi Market, by Application, 2019-2029 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL FSO & VLC/LI-FI MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL FSO & VLC/LI-FI MARKET DYNAMICS

- 3.1. FSO & VLC/Li-Fi Market Impact Analysis (2019-2029)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Efficient Data Transfer Technology
 - 3.1.1.2. rising collaboration between private players
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Installation Cost of FSO & VLC/Li-Fi
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Growth in adoption of Li-Fi
 - 3.1.3.2. Advancement in Technology Formulation

CHAPTER 4. GLOBAL FSO & VLC/LI-FI MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Futuristic Approach to Porter's 5 Force Model (2019-2029)
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
- 4.4. Investment Adoption Model
- 4.5. Analyst Recommendation & Conclusion
- 4.6. Top investment opportunity
- 4.7. Top winning strategies

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

- 5.1. Assessment of the overall impact of COVID-19 on the industry
- 5.2. Pre COVID-19 and post COVID-19 Market scenario

CHAPTER 6. GLOBAL FSO & VLC/LI-FI MARKET, BY COMPONENT

- 6.1. Market Snapshot
- 6.2. Global FSO & VLC/Li-Fi Market by Component, Performance - Potential Analysis
- 6.3. Global FSO & VLC/Li-Fi Market Estimates & Forecasts by Component 2019-2029 (USD Billion)
- 6.4. FSO & VLC/Li-Fi Market, Sub Segment Analysis
 - 6.4.1. Light Emitting Diode
 - 6.4.2. Photo Detector
 - 6.4.3. Microcontroller

CHAPTER 7. GLOBAL FSO & VLC/LI-FI MARKET, BY TRANSMISSION TYPE

- 7.1. Market Snapshot
- 7.2. Global FSO & VLC/Li-Fi Market by Transmission Type, Performance - Potential Analysis
- 7.3. Global FSO & VLC/Li-Fi Market Estimates & Forecasts by Transmission Type 2019-2029 (USD Billion)
- 7.4. FSO & VLC/Li-Fi Market, Sub Segment Analysis

7.4.1. Unidirectional Transmission

7.4.2. Bidirectional Transmission

CHAPTER 8. GLOBAL FSO & VLC/LI-FI MARKET, BY APPLICATION

8.1. Market Snapshot

8.2. Global FSO & VLC/Li-Fi Market by Application, Performance - Potential Analysis

8.3. Global FSO & VLC/Li-Fi Market Estimates & Forecasts by Application 2019-2029
(USD Billion)

8.4. FSO & VLC/Li-Fi Market, Sub Segment Analysis

8.4.1. Smart Store

8.4.2. Street Light

8.4.3. Consumer Electronics

8.4.4. Defence and Security

8.4.5. Vehicle and Transportation

8.4.6. Aviation

8.4.7. Hospital

8.4.8. Underwater Communication

8.4.9. Hazardous Environment

8.4.10. Other

CHAPTER 9. GLOBAL FSO & VLC/LI-FI MARKET, REGIONAL ANALYSIS

9.1. FSO & VLC/Li-Fi Market, Regional Market Snapshot

9.2. North America FSO & VLC/Li-Fi Market

9.2.1. U.S.FSO & VLC/Li-Fi Market

9.2.1.1. Componentbreakdown estimates & forecasts, 2019-2029

9.2.1.2. Transmission Type breakdown estimates & forecasts, 2019-2029

9.2.1.3. Application breakdown estimates & forecasts, 2019-2029

9.2.2. CanadaFSO & VLC/Li-Fi Market

9.3. Europe FSO & VLC/Li-Fi Market Snapshot

9.3.1. U.K. FSO & VLC/Li-Fi Market

9.3.2. Germany FSO & VLC/Li-Fi Market

9.3.3. France FSO & VLC/Li-Fi Market

9.3.4. Spain FSO & VLC/Li-Fi Market

9.3.5. Italy FSO & VLC/Li-Fi Market

9.3.6. Rest of EuropeFSO & VLC/Li-Fi Market

9.4. Asia-PacificFSO & VLC/Li-Fi Market Snapshot

9.4.1. China FSO & VLC/Li-Fi Market

- 9.4.2. India FSO & VLC/Li-Fi Market
- 9.4.3. Japan FSO & VLC/Li-Fi Market
- 9.4.4. Australia FSO & VLC/Li-Fi Market
- 9.4.5. South Korea FSO & VLC/Li-Fi Market
- 9.4.6. Rest of Asia Pacific FSO & VLC/Li-Fi Market
- 9.5. Latin America FSO & VLC/Li-Fi Market Snapshot
 - 9.5.1. Brazil FSO & VLC/Li-Fi Market
 - 9.5.2. Mexico FSO & VLC/Li-Fi Market
- 9.6. Rest of The World FSO & VLC/Li-Fi Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Top Market Strategies
- 10.2. Company Profiles
 - 10.2.1. FSONA Networks Corp
 - 10.2.1.1. Key Information
 - 10.2.1.2. Overview
 - 10.2.1.3. Financial (Subject to Data Availability)
 - 10.2.1.4. Product Summary
 - 10.2.1.5. Recent Developments
 - 10.2.2. Wireless Excellence Limited
 - 10.2.3. Signify Holding
 - 10.2.4. Oledcomm
 - 10.2.5. Lucibel
 - 10.2.6. PureLiFi Limited
 - 10.2.7. Acuity Brands, Inc.
 - 10.2.8. Panasonic holdings Corporation
 - 10.2.9. Fraunhofer Heinrich Hertz Institute (HHI)
 - 10.2.10. Trimble Hungary Kft. Ltd.

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

11.3. Research Assumption

List Of Tables

LIST OF TABLES

- TABLE 1. Global FSO & VLC/Li-Fi Market, report scope
- TABLE 2. Global FSO & VLC/Li-Fi Market estimates & forecasts by Region 2019-2029 (USD Billion)
- TABLE 3. Global FSO & VLC/Li-Fi Market estimates & forecasts by Component 2019-2029 (USD Billion)
- TABLE 4. Global FSO & VLC/Li-Fi Market estimates & forecasts by Transmission Type 2019-2029 (USD Billion)
- TABLE 5. Global FSO & VLC/Li-Fi Market estimates & forecasts by Application 2019-2029 (USD Billion)
- TABLE 6. Global FSO & VLC/Li-Fi Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 7. Global FSO & VLC/Li-Fi Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 8. Global FSO & VLC/Li-Fi Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 9. Global FSO & VLC/Li-Fi Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 10. Global FSO & VLC/Li-Fi Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 11. Global FSO & VLC/Li-Fi Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 12. Global FSO & VLC/Li-Fi Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 13. Global FSO & VLC/Li-Fi Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 14. Global FSO & VLC/Li-Fi Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 15. Global FSO & VLC/Li-Fi Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 16. U.S. FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 17. U.S. FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)
- TABLE 18. U.S. FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 19. Canada FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 20. Canada FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 21. Canada FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 22. UK FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 23. UK FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 24. UK FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 25. Germany FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 26. Germany FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 27. Germany FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 28. France FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 29. France FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 30. France FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 31. Italy FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 32. Italy FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 33. Italy FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 34. Spain FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 35. Spain FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 36. Spain FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 37. RoE FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 38. RoE FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 39. RoE FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029

(USD Billion)

TABLE 40. China FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 41. China FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 42. China FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 43. India FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 44. India FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 45. India FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 46. Japan FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 47. Japan FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 48. Japan FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 49. South Korea FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 50. South Korea FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 51. South Korea FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 52. Australia FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 53. Australia FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 54. Australia FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 55. RoAPACFSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 56. RoAPACFSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 57. RoAPACFSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 58. Brazil FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 59. Brazil FSO & VLC/Li-Fi Market estimates & forecasts by segment
2019-2029 (USD Billion)

TABLE 60. Brazil FSO & VLC/Li-Fi Market estimates & forecasts by segment
2019-2029 (USD Billion)

TABLE 61. Mexico FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD
Billion)

TABLE 62. Mexico FSO & VLC/Li-Fi Market estimates & forecasts by segment
2019-2029 (USD Billion)

TABLE 63. Mexico FSO & VLC/Li-Fi Market estimates & forecasts by segment
2019-2029 (USD Billion)

TABLE 64. RoLAFSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD
Billion)

TABLE 65. RoLAFSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029
(USD Billion)

TABLE 66. RoLAFSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029
(USD Billion)

TABLE 67. Row FSO & VLC/Li-Fi Market estimates & forecasts, 2019-2029 (USD
Billion)

TABLE 68. Row FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029
(USD Billion)

TABLE 69. Row FSO & VLC/Li-Fi Market estimates & forecasts by segment 2019-2029
(USD Billion)

TABLE 70. List of secondary sources, used in the study of global FSO & VLC/Li-Fi
Market

TABLE 71. List of primary sources, used in the study of global FSO & VLC/Li-Fi Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final
deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global FSO & VLC/Li-Fi Market, research methodology
 - FIG 2. Global FSO & VLC/Li-Fi Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global FSO & VLC/Li-Fi Market, key trends 2021
 - FIG 5. Global FSO & VLC/Li-Fi Market, growth prospects 2022-2029
 - FIG 6. Global FSO & VLC/Li-Fi Market, porters 5 force model
 - FIG 7. Global FSO & VLC/Li-Fi Market, pest analysis
 - FIG 8. Global FSO & VLC/Li-Fi Market, value chain analysis
 - FIG 9. Global FSO & VLC/Li-Fi Market by segment, 2019 & 2029 (USD Billion)
 - FIG 10. Global FSO & VLC/Li-Fi Market by segment, 2019 & 2029 (USD Billion)
 - FIG 11. Global FSO & VLC/Li-Fi Market by segment, 2019 & 2029 (USD Billion)
 - FIG 12. Global FSO & VLC/Li-Fi Market by segment, 2019 & 2029 (USD Billion)
 - FIG 13. Global FSO & VLC/Li-Fi Market by segment, 2019 & 2029 (USD Billion)
 - FIG 14. Global FSO & VLC/Li-Fi Market, regional snapshot 2019 & 2029
 - FIG 15. North America FSO & VLC/Li-Fi Market 2019 & 2029 (USD Billion)
 - FIG 16. Europe FSO & VLC/Li-Fi Market 2019 & 2029 (USD Billion)
 - FIG 17. Asia pacific FSO & VLC/Li-Fi Market 2019 & 2029 (USD Billion)
 - FIG 18. Latin America FSO & VLC/Li-Fi Market 2019 & 2029 (USD Billion)
 - FIG 19. Global FSO & VLC/Li-Fi Market, company Market share analysis (2021)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global FSO & VLC/Li-Fi Market Size study&Forecast, by Component (Light Emitting Diode, Photo Detector, Microcontroller) by Transmission Type (Unidirectional Transmission, Bidirectional Transmission) by Application (Smart Store, Street Light, Consumer Electronics, Defence and Security, Vehicle and Transportation, Aviation, Hospital, Underwater Communication, Hazardous Environment, Other)and Regional Analysis, 2022-2029

Product link: <https://marketpublishers.com/r/G8363B7E1585EN.html>

Price: US\$ 4,950.00 (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/G8363B7E1585EN.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