

Light Fidelity (Li-Fi)/Visible Light Communication Market 2024 To Reach \$12993.59 Billion By 2028 At Rate Of 118.8%

The Business Research Company's Light Fidelity (Li-Fi)/Visible Light Communication Global Market Report 2024 – Market Size, Trends, And Forecast 2024-2033

LANDON, GREATER LONDON, UNITED KINGDOM, September 26, 2024

[/Einpresswire.com/](https://www.einpresswire.com/) -- The [light fidelity](#)

[\(li-fi\)/visible light communication market](#) has experienced robust growth in recent years, expanding from \$260.42 billion in 2023 to \$567.29 billion in 2024 at a compound annual growth rate (CAGR) of 117.8%. The growth in the historic period can be attributed to increasing demand for high-speed data transmission, limited availability of radio spectrum, data security concerns, internet of things (IoT) connectivity needs, energy efficiency concerns, enhanced data transfer in specific environments.



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What Is The Estimated Market Size Of The Global Light Fidelity (Li-Fi)/Visible Light Communication Market And Its Annual Growth Rate?

The light fidelity (li-fi)/visible light communication market is

projected to continue its strong growth, reaching \$12993.59 billion in 2028 at a compound annual growth rate (CAGR) of 118.8%. The growth in the forecast period can be attributed to 5g integration and coexistence, smart city initiatives, increased connectivity in retail and hospitality, healthcare communication solutions, educational institutions and workplace deployments.

Explore Comprehensive Insights Into The Global Light Fidelity (Li-Fi)/Visible Light Communication Market With A Detailed Sample Report:

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Growth Driver Of The Light Fidelity (Li-Fi)/Visible Light Communication Market

The growing need for secure communication is expected to propel the growth of the light fidelity



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(Li-Fi)/visible light communication market going forward. Secure communication refers to the transmission of information in a way that prevents unauthorized access, interception, or tampering. Secure communication leveraging Light Fidelity (Li-Fi)/Visible Light Communication uses light waves to transmit data, offering a highly secure and interference-resistant alternative to traditional wireless technologies, as the transmission is confined to the line of sight and cannot easily penetrate physical barriers, enhancing data confidentiality.

Make Your Report Purchase Here And Explore The Whole Industry's Data As Well:

<https://www.thebusinessresearchcompany.com/report/light-fidelity-li-fi-or-visible-light-communication-global-market-report>

Who Are The Key Players Shaping The Light Fidelity (Li-Fi)/Visible Light Communication Market Trends?

Key players in the market include General Electric Company, Oledcomm SA, Renesas Electronics Corporation, PureLiFi Ltd., Lvx System GmbH, Acuity Brands Lighting Inc., IBSENtelecom Ltd., Koninklijke Philips N.V., Panasonic Holdings Corporation, Qualcomm Technologies Inc., Firefly Wireless Networks LLC, Velmenni Oy, Visilink Technologies Inc., Signify Holding B.V., VLNComm Inc., LumEfficient Inc., Plaintree Systems Inc., Casio Computer Co. Ltd., Axrtek Co. Ltd., ByteLight Inc., Lightbee Corporation, LightPointe Communications Inc., Samsung Electronics Co. Ltd., Toshiba Corporation, Air France - KLM Group, Airbus SE, Audi AG, The Boeing Company, Continental AG, Daimler AG, Delta Air Lines Inc., Emirates Airline, Etihad Airways PJSC, Ford Motor Company.

What Are The Dominant Trends In Light Fidelity (Li-Fi)/Visible Light Communication Market Growth?

Major companies operating in the light fidelity (Li-Fi)/visible light communication market is focused on developing new technological solutions such as light antenna modules that could enable Li-Fi connectivity in connected devices. A light antenna module is an optoelectrical antenna designed to integrate like a traditional RF antenna and enable Li-Fi (light fidelity) in connected devices and smartphones.

How Is The Global Light Fidelity (Li-Fi)/Visible Light Communication Market Segmented?

- 1) By Component: LED, Photodetectors, Microcontrollers (MCU)
- 2) By Transmission Type: Unidirectional, Bidirectional
- 3) By Application: Indoor Networking, LBS (Location Based Services), In-Flight Communication and Entertainment, Underwater Communication, Other Applications
- 4) By Industry Vertical: Retail, Electronics, Defense and Security, Automotive and Transport, Aerospace and Aviation, Healthcare, Other Industry Verticals

Geographical Insights: North America Leading The Light Fidelity (Li-Fi)/Visible Light Communication Market

North America was the largest region in the market in 2023. Asia-Pacific is expected to be the fastest-growing region in the market report during the forecast period. The regions covered in

the report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

Light Fidelity (Li-Fi)/Visible Light Communication Market Definition

The light fidelity (Li-Fi)/visible light communication market consists of sales of light fidelity (Li-Fi)/visible light communication products and services by entities (organizations, sole traders, and partnerships) that are used to provide an efficient and easier way of communicating wirelessly. Li-Fi (light fidelity), a bidirectional wireless system, uses infrared or LED light for transferring data. Visible light communication (VLC) does both communication and lighting simultaneously. The electromagnetic spectrum's visible light, which spans the blue (670 THz) and red (480 THz) frequencies, has been used by Li-Fi. Li-Fi technology doesn't rely on EM waves, it is best suited for use in hospitals and on aeroplanes, where Wi-Fi and other radio frequency connections are restricted for safety and security reasons.

Light Fidelity (Li-Fi)/Visible Light Communication Global Market Report 2024 from TBRC covers the following information:

- Market size data for the forecast period: Historical and Future
- Macroeconomic factors affecting the market in the short and long run
- Analysis of the macro and micro economic factors that have affected the market in the past five years
- Market analysis by region: Asia-Pacific, China, Western Europe, Eastern Europe, North America, USA, South America, Middle East and Africa.
- Market analysis by countries: Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, UK, USA.

An overview of the global light fidelity (li-fi)/visible light communication market report covering trends, opportunities, strategies, and more

The Light Fidelity (Li-Fi)/Visible Light Communication Global Market Report 2024 by The Business Research Company is the most comprehensive report that provides insights on [light fidelity \(li-fi\)/visible light communication market size](#), light fidelity (li-fi)/visible light communication market drivers and trends, light fidelity (li-fi)/visible light communication market major players and light fidelity (li-fi)/visible light communication market growth across geographies. This report helps you gain in-depth insights into opportunities and strategies. Companies can leverage the data in the report and tap into segments with the highest growth potential.

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Oliver Guirdham

The Business Research Company

+44 20 7193 0708

info@tbrc.info

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