

Light Fidelity Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Component (LED, Photodetector and Microcontroller), By Application (Traffic Management & Road Safety, Medical Applications, Aviation, Communication Underwater, Interior map-reading system for blind people, Transportations, Industrial Areas, and Others), By End Use Industry (Transportation, Automotive, Defence, Healthcare, Aviation, and Others), By Region, By Competition

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Abstracts

Global Light Fidelity Market is expected to register a double digit CAGR during the forecast period, owing to faster speed of data transmission, enhanced data security, no electromagnetic interference, and less power consumption.

Light Fidelity Market or light fidelity is one of the highly anticipated wireless communication technologies that works similarly to Wi-Fi. Fully networked, bidirectional, and high-speed wireless is the key component of this technology. Wi-Fi is currently the most popular wireless communication technology and the number of internet users also continues to grow. Light Fidelity technology has developed because of the need for greater speed, effectiveness, and bandwidth. Light is used in this technology to transmit data because it changes in intensity more quickly. Compared to Wi-Fi, Light Fidelity Market has a 100 times greater data transmission range.

Based on the component, the Global Light Fidelity market has been segmented into

LED, photodetector, software and microcontroller. The software segment accounted for the largest share of the market and is expected to grow at higher rate during the forecast period due to two-way communication by the Visible Light Communication (VLC) technology and efficient software support. Photodetector segment is expected to grow at the highest CAGR during the forecast period due to the commercialisation of bidirectional Visible Light Communication. Geographically, the market has been segmented into Asia-Pacific, North America, South America, Middle East & Africa, and Europe. Asia-Pacific is expected to dominate the market during the forecast period owing to the huge investments in telecom infrastructure and government funding.

Rise in government investments

The emergence of the internet of things and 5G technology, as well as the increasing acceptance of light fidelity technology globally is expected to provide ample opportunities for the market during the forecast period. Therefore, the government is highly focused on investing in the market. Some of the government investments and initiatives are :

Scottish government has investment USD 11.9 million in Purelifi. This enables company to develop Light Fidelity Market technology in devices such as mobile phones, tablets, wearables, and other connected devices.

In Japan, Light Fidelity Market technology enabled driverless platooning of trucks on Japanese highway

The European Commission enable the functions for ICT sector as it can perform during the upcoming years, such as making buildings more energy-efficient or enhancing the performance of the electricity grid and water management.

Rising demand for Light Fidelity Market in the end user industries

There has been a continuous demand for Light Fidelity among the end-user industries. Some of the examples of Light Fidelity market among the end user industries are:

The combination of Light Fidelity Market in education system transmit and receive the data among various devices at institutional level. This benefits with secure and uninterrupted data transmission with cost effective measures.

In hospitals, Light Fidelity is used in medical devices where Wi-Fi is banned as it emits electromagnetic interferences with medical instruments and MRI Scanners.

Market Segmentation

Global Light Fidelity Market is segmented on the basis of component, application, end-use industry, and region. Based on component, the market can be segmented into fingerprint recognition, facial recognition, iris recognition, hand/palm recognition, voice recognition, vein scanner, and others including DNA recognition, signature recognition, etc. On the basis of application, the market is further split into contact based, contact less, and hybrid. On the basis of end use industry, the market can be segmented into, government and defense, BFSI, consumer electronics, IT and telecom, healthcare and lifesciences, retail and e-commerce, and others.

Market Players

Major market players in the Global Light Fidelity Market are Koninklijke Philips NV, General Electric Company, Bytelight Inc., Panasonic Corporation, Purelifi Ltd, LVX System, Oledcomm, Lucibel, Outstanding Technology Co. Ltd, and Axrtek.

Presently, only a few of the major players control market in terms of market share. These dominant market players are focused on diversifying their customer base internationally. These businesses are utilizing strategic joint ventures to boost their market share and profitability. Companies in the market are also acquiring start-ups focused on Light Fidelity technologies to strengthen their product capabilities.

Key developments from Government and key players

In August 2020, Ahmedabad Civil Hospitals, Surat Municipal Institute of Medical Education & Research, and Gujarat Medical Education & Research Society Hospital installed Lifi--based communication facilities. Moreover, the company is investigating partnerships with government and private hospitals such as Maharashtra, Madhya Pradesh, and Rajasthan.

Rugged mobiles are equipped with Light Fidelity technology powered by pureLiFi Getac Technology. The fully rugged tablet UX10 from Getac has

integrated LiFi capability to benefit the defence, public safety, automotive, energy, and manufacturing industries.

Report Scope:

In this report, the Global Light Fidelity Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Global Light Fidelity Market, By Component:

LED

Photodetector

Software

Microcontroller

Global Light Fidelity Market, By Application:

Traffic Management & Road Safety

Medical Applications

Aviation

Communication Underwater

Interior map-reading system for blind people

Transportations

Industrial Areas

Others

Global Light Fidelity Market, By End Use Industry:

Transportation

Automotive

Defense

Healthcare

Aviation

Others

Global Light Fidelity Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Singapore

Malaysia

Europe

Germany

United Kingdom

France

Italy

Spain

Poland

Denmark

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East

Saudi Arabia

South Africa

UAE

Iraq

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Light Fidelity Market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to 15).

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