

Global Visible Light Communication Market Growth (Status and Outlook) 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Visible Light Communication market size was valued at US\$ 2297.8 million in 2023. With growing demand in downstream market, the Visible Light Communication is forecast to a readjusted size of US\$ 8903.6 million by 2030 with a CAGR of 21.3% during review period.

The research report highlights the growth potential of the global Visible Light Communication market. Visible Light Communication are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Visible Light Communication. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Visible Light Communication market.

Visible Light Communication (VLC) is an emerging technology that uses visible light (which lies between 400 and 800 THz of electromagnetic spectrum) as a communication medium. VLC technology uses Light Emitting Diodes (LEDs) from a variety of sources such as indoor and outdoor lighting, monitors, illuminated signs, toys, televisions and other consumer electronics devices for communication purpose. Communication/data transfer is achieved through switching on and off of LEDs in wide range of applications.

The Global Mobile Economy Development Report 2023 released by GSMA Intelligence

pointed out that by the end of 2022, the number of global mobile users would exceed 5.4 billion. The mobile ecosystem supports 16 million jobs directly and 12 million jobs indirectly.

According to our Communications Research Centre, in 2022, the global communication equipment was valued at US\$ 100 billion. The U.S. and China are powerhouses in the manufacture of communications equipment. According to data from the Ministry of Industry and Information Technology of China, the cumulative revenue of telecommunications services in 2022 was ?1.58 trillion, an increase of 8% over the previous year. The total amount of telecommunications business calculated at the price of the previous year reached ?1.75 trillion, a year-on-year increase of 21.3%. In the same year, the fixed Internet broadband access business revenue was ?240.2 billion, an increase of 7.1% over the previous year, and its proportion in the telecommunications business revenue decreased from 15.3% in the previous year to 15.2%, driving the telecommunications business revenue to increase by 1.1 percentage points.

Key Features:

The report on Visible Light Communication market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Visible Light Communication market. It may include historical data, market segmentation by Type (e.g., Up to 1Mb/s Transmit Signals, Above 1Mb/s Transmit Signals), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Visible Light Communication market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Visible Light Communication market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest

technological developments in the Visible Light Communication industry. This include advancements in Visible Light Communication technology, Visible Light Communication new entrants, Visible Light Communication new investment, and other innovations that are shaping the future of Visible Light Communication.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Visible Light Communication market. It includes factors influencing customer ' purchasing decisions, preferences for Visible Light Communication product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Visible Light Communication market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Visible Light Communication market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Visible Light Communication market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Visible Light Communication industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Visible Light Communication market.

Market Segmentation:

Visible Light Communication market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Segmentation by type

Up to 1Mb/s Transmit Signals

Above 1Mb/s Transmit Signals

Segmentation by application

Retail Indoor Positioning

Underwater Communication

Hospitality

Automotive And Transport

Connected Devices

In-Flight Communication

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

FSONA Networks

GE

LightPointe Communications

LVX System

Nakagawa Laboratories

Oledcomm

Outstanding Technology

Koninklijke Philips

PureLiFi

Avago Technologies

Axrtek

ByteLight

Casio

IBSENtelecom

Lightbee

Luciom

Panasonic

Plaintree Systems

Renesas Electronics

Supreme Architecture

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