

Global Visible Light Communication (VLC) Market 2023-2029

<https://marketpublishers.com/r/GC08A7F6617CEN.html>

Date: March 2023

Pages: 62

Price: US\$ 2,250.00 (Single User License)

ID: GC08A7F6617CEN

Abstracts

Visible Light Communication (VLC) is a wireless communication technology that uses visible light between 400 THz and 800 THz for data transmission. It enables data exchange between devices using visible light LED lights that are modulated at a high frequency that is invisible to the human eye. VLC has the advantage of being safe and secure as a mode of wireless communication when compared to Radio Frequency (RF) communication, as visible light cannot penetrate walls, ensuring privacy and security of the communication. According to the latest data, the market size of the global visible light communication sector is expected to rise by USD 593.3 billion with a CAGR of 65.71% by the end of 2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global visible light communication market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the transmission type, component, application, and region. The global market for visible light communication can be segmented by transmission type: bidirectional transmission, unidirectional transmission. The unidirectional transmission segment held the largest revenue share in 2022. Visible light communication market is further segmented by component: microcontroller, photodetector, light emitting diode, software. Among these, the light emitting diode segment was accounted for the highest revenue generator in 2022. Based on application, the visible light communication market is segmented into: consumer electronics, transportation, hospital, streetlight,

smart store, military and security, others. The transportation segment captured the largest share of the market in 2022. On the basis of region, the visible light communication market also can be divided into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. According to the research, North America had the largest share in the global visible light communication market.

Market Segmentation

By transmission type: bidirectional transmission, unidirectional transmission

By component: microcontroller, photodetector, light emitting diode, software

By application: consumer electronics, transportation, hospital, streetlight, smart store, military and security, others

By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report has also analysed the competitive landscape of the global visible light communication market with some of the key players being Lucibel SA, Signify NV, Lightbee Corp., Casio Computer Co., Ltd., ByteLight, Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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Scope of the Report

To analyze and forecast the market size of the global visible light communication market.

To classify and forecast the global visible light communication market based on transmission type, component, application, region.

To identify drivers and challenges for the global visible light communication market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global visible light communication market.

To identify and analyze the profile of leading players operating in the global visible light communication market.

Why Choose This Report

Gain a reliable outlook of the global visible light communication market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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Latin America

PART 9. KEY COMPANIES

Lucibel SA
Signify NV
Lightbee Corp.
Casio Computer Co., Ltd.
ByteLight, Inc.

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