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Visible Light Communication Market Report: Trends, Forecast and Competitive Analysis to 2030

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Abstracts

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Visible Light Communication Trends and Forecast

The future of the global visible light communication market looks promising with opportunities in the consumer electronic, defense and security, transportation, public infrastructure, and life sciences markets. The global visible light communication market is expected to reach an estimated $28.9 billion by 2030 with a CAGR of 39.7% from 2024 to 2030. The major drivers for this market are rising adoption of LED lighting systems, increasing need for high-speed communication networks, and growing demand for building smart city infrastructure.

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below.

Visible Light Communication by Segment

The study includes a forecast for the global visible light communication by component, transmission type, application, and region

Visible Light Communication Market by Component [Shipment Analysis by Value from 2018 to 2030]:

Light Emitting Diodes

Photodetectors

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Microcontrollers

Software and Services

Visible Light Communication Market by Transmission Type [Shipment Analysis by Value from 2018 to 2030]:

Uni-directional

Bi-directional

Visible Light Communication Market by Application [Shipment Analysis by Value from 2018 to 2030]:

Consumer Electronics

Defense and Security

Transportation

Public Infrastructure

Life Sciences

Others

Visible Light Communication Market by Region [Shipment Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

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The Rest of the World

List of Visible Light Communication Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies visible light communication companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the visible light communication companies profiled in this report include-

Koninklijke Philips

Lvx System

Bytelight

Panasonic Corporation

Purelifi

Oledcomm

Lucibel SA

Outstanding

Axrtek Company

Firefly Wireless Networks

Visible Light Communication Market Insights

Lucintel forecast that bi-directional is expected to witness highest growth over the forecast period.

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Within this market, consumer electronics is expected to witness highest growth.

North America will remain the largest segment over the forecast period due to adoption of VLC technology and presence of major players in the region.

Features of the Global Visible Light Communication Market

Market Size Estimates: Visible light communication market size estimation in terms of value ($B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Visible light communication market size by various segments, such as by component, transmission type, application, technology, and region in terms of value ($B).

Regional Analysis: Visible ight communication market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different component, transmission type, application, and regions for the visible light communication market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the visible light communication market.

Analysis of competitive intensity of the industry based on Porter’s Five Forces model.

FAQ

Q.1 What is the visible light communication market size?

Answer: The global visible light communication market is expected to reach an estimated $28.9 billion by 2030.

Q.2 What is the growth forecast for visible light communication market?

Answer: The global visible light communication market is expected to grow with a CAGR of 39.7% from 2024 to 2030

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Q.3 What are the major drivers influencing the growth of the visible light communication market?

Answer: The major drivers for this market are rising adoption of LED lighting systems, increasing need for high-speed communication networks, and growing demand for building smart city infrastructure.

Q4. What are the major segments for visible light communication market?

Answer: The future of the global visible light communication market looks promising with opportunities in the consumer electronic, defense and security, transportation, public infrastructure, and life sciences markets.

Q5. Who are the key visible light communication market companies?

Answer: Some of the key visible light communication companies are as follows:

Koninklijke Philips

LVX System

Bytelight

Panasonic Corporation

Purelifi

Oledcomm

Lucibel SA

Outstanding

Axrtek Company

Firefly Wireless Networks

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Q6. Which visible light communication market segment will be the largest in future?

Answer: Lucintel forecast that bi-directional is expected to witness highest growth over the forecast period.

Q7. In visible light communication market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest segment over the forecast period due to adoption of VLC technology and presence of major players in the region.

Q.8 Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% customization without any additional cost.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the visible light communication market by component (light emitting diodes, photodetectors, microcontrollers, and software & services), transmission type (uni-directional, and bi-directional), application (consumer electronics, defense and security, transportation, public infrastructure, life sciences, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

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Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

For any questions related to visible light communication market or related to visible light communication companies, visible light communication market size, visible light communication market share, visible light communication market growth, visible light communication market research, write Lucintel analyst at email: helpdesk@lucintel.com we will be glad to get back to you soon.

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7.7: Lucibel SA
7.8: Outstanding
7.9: Axrtek Company
7.10: Firefly Wireless Networks

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