

Global Optoelectronic ComponentsMarket Size study, byComponent (Sensor, LED, Laser Diode, Infrared Components) by Application (Measurement, Lighting , Communications, Security & Surveillance, Others) by Material (Gallium Nitride, Gallium Arsenide, Silicon Carbide, Indium Phosphide, Silicon Germanium, Gallium Phosphide)by Vertical(Automotive, Consumer Electronics, Telecommunications, Military & Aerospace, Medical, Residential, Commercial, Manufacturing, Others)and Regional Forecasts 2021-2027

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Abstracts

Global Optoelectronic ComponentsMarket is valued approximately USD 41.4 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 5.0 % over the forecast period 2021-2027. The optoelectronic component is an electromechanical device that transforms electrical signals into ultraviolet or visible energy and detects and controls light. Electric irises, photovoltaic power supply, optical fiber communications networks, and measurement and review circuits all are using these components. The growing market in the automobile sector, particularly with the adoption of electric vehicles, self-driving vehicles, and autonomous cars, is likely to raise the use of optoelectronic devices, propelling the business forward. Ring Automotive, a British manufacturer and marketer of automotive headlight and automotive parts, was acquired by Osram (Germany) in February 2019. By utilizing Ring Vehicle's distribution channels, OSRAM will be able to improve its capabilities in automotive illumination and access into further potential profits. Due to the use of many different sensors, such as ocular,

imaging, photoresistors, photoreceptor, and photo relay for various applications across multiple sectors, LED, laser diode, and infrared components will have the biggest share during the projection timeframe. As an example, Hamamatsu (Japan) experienced significant growth in October 2018 by introducing a 4-channel pulsed laser diode to their laser diode line. The laser diode can withstand temperatures as high as 105°C. However, the market's growth is being stifled by the heavy price of equipment and the availability of low-cost replacement technologies. Also, the continued growth for portable electronic products with innovative features and technological innovation represents a market opportunity for the optoelectronics industry.

Due to various flourishing consumer electronics and the assertion that the bulk of the population is familiar with sophisticated electrical gadgets, the North American region is expected to contribute to the growth of the global optoelectronics market expansion. The use of optoelectronics in cinematography, avionics, and commercial applications would drive the European region's overall growth. China's slightly elevated pattern is anticipated to remain in Asia Pacific, owing to rising consumption on sophisticated electronic goods by the tech-savvy populace. The enormous increase in consumer electronics consumption in the Asia-Pacific and Latin American regions has opened up new opportunities for optoelectronics makers.

Major market player included in this report are:

- Hamamatsu
- Osram
- TT Electronics
- Vishay
- ON Semiconductor
- Cree
- Trumpf
- SICK AG
- Samsung
- Sony

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest

along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

ByComponent:

Sensor

LED

Laser Diode

Infrared Components

By Application:

Measurement

Lighting

Communications

Security & Surveillance

Others

By Material:

Gallium Nitride

Gallium Arsenide

Silicon Carbide

Indium Phosphide

Silicon Germanium

Gallium Phosphide

By Vertical:

Automotive

Consumer Electronics

Telecommunications

Military & Aerospace

Medical

Residential

Commercial

Manufacturing

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019
Base year – 2020
Forecast period – 2021 to 2027

Target Audience of the Global Optoelectronic ComponentsMarket in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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