

# **Automotive Lighting Market Report by Technology (Halogen, Xenon/HID, LED), Vehicle Type (Passenger Vehicle, Commercial Vehicle), Sales Channel (Original Equipment Manufacturers, Aftermarket), Application (Front Lighting/Headlamps, Rear Lighting, Side Lighting, Interior Lighting), and Region 2024-2032**

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## **Abstracts**

The global automotive lighting market size reached US\$ 32.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 54.7 Billion by 2032, exhibiting a growth rate (CAGR) of 5.9% during 2024-2032. The increasing awareness among individuals regarding road safety measures, the rising utilization of new lighting technologies, the growing demand for electric vehicles (EVs), and the escalating environmental consciousness among individuals are some factors propelling the automotive lighting market growth.

**Automotive Lighting Market Analysis:**

**Major Market Drivers:** The increasing vehicle production and sales are primarily driving the growth of the global market. Furthermore, rapid advancements in lighting technology, including LED, laser, and OLED, which offer improved performance and energy efficiency, are further bolstering the market growth.

**Key Market Drivers:** The rising demand for energy-efficient lighting solutions is one of the significant trends catalyzing the growth of the market. Moreover, the rapid adoption of adaptive lighting systems and the escalating awareness of road safety are also strengthening the market.

**Competitive Landscape:** Some of the leading automotive lighting companies include Continental AG, HELLA GmbH & Co. KGaA (Faurecia SE), Hyundai Mobis (Hyundai Motor Group), Koito Manufacturing Co. Ltd., Koninklijke Philips N.V., LG Electronics

Inc., Lumax Industries Limited, Marelli Holdings Co. Ltd., Osram Licht AG (ams AG), Robert Bosch GmbH, Samsung Electronics Co. Ltd., Stanley Electric Co. Ltd. and Valeo, among many others.

**Geographical Landscape:** According to the report, Asia Pacific dominates the global market. This can be attributed to the expanding vehicle production, rising disposable incomes, rapid urbanization, and the growing middle-class population. Furthermore, ongoing infrastructure development and increasing vehicle ownership rates are also propelling the automotive lighting market share.

**Challenges and Opportunities:** Challenges in the automotive lighting market include navigating stringent regulatory requirements for safety and efficiency and the need to continuously innovate to meet evolving consumer preferences and technological advancements. Opportunities arise from the growing demand for energy-efficient lighting solutions, the integration of advanced technologies like LEDs and OLEDs, and the potential for customization and personalization in lighting design to enhance vehicle aesthetics and functionality.

### Automotive Lighting Market Trends:

#### Expanding Automotive Industry

The increasing production and sales of both passenger and commercial vehicles on account of inflating disposable incomes of consumers, increasing businesses, and rising preference for convenient modes of transportation are primarily driving the growth of the market. For instance, India's passenger vehicle wholesales reached a new high of 42,18,746 units in the 2023-24 financial year, an 8.4% increase from the previous year. Similarly, the overall commercial vehicle sales increased from 7,16,566 to 9,62,468 units. Besides this, emerging trends like electric vehicles (EVs) and autonomous driving are further bolstering this demand, requiring specialized lighting technologies for safety, efficiency, and aesthetics. For instance, according to IMARC, the global electric vehicle market size reached 25.6 Million Units in 2023. Looking forward, IMARC Group expects the market to reach 381.3 Million Units by 2032, exhibiting a growth rate (CAGR) of 34% during 2024-2032. As the automotive sector grows, there's a parallel demand for lighting solutions to equip these vehicles. This is expected to significantly bolster the automotive lighting industry.

#### Escalating Demand for Enhanced Cabin Amenities and Luxury Attributes

As the electric vehicle trend continues to surge, automotive lighting manufacturers are actively engineering innovative lighting technologies to replace outdated traditional fixtures. Moreover, cabin lights are gaining wide traction. They are primarily used for

reading and giving an aesthetic appeal to the interiors of the car. Concurrently, electric vehicle manufacturers are launching new vehicle models with top-tier cabin interiors. For instance, in September 2020, Lucid Motors launched Lucid Air, a luxurious electric sedan that offers a full-size luxury-class interior, which is based on Lucid's exclusive space concept philosophy. Similarly, in April 2024, AM OSRAM, a key player in intelligent sensors and emitters, joined forces with DOMINANT Opto Technologies, a leading Malaysian manufacturer of automotive LED solutions, to advance automotive ambient lighting. The collaboration between ams OSRAM and DOMINANT Opto Technologies marks a significant step forward in fostering innovation and promoting technological compatibility within the automotive lighting sector. Such innovation in automotive interior lighting and rising preference for luxury features in the car are anticipated to expand the automotive lighting market size.

### Rapid Technological Advancements

Rapid technological advancements in the automotive sector are driving the growth of the automotive lighting market. The adoption of LED technology in automotive lighting is catalyzing the market. LEDs offer numerous benefits over traditional lighting technologies, including improved energy efficiency, longer lifespan, and better lighting performance. Various key market players are increasingly investing in research and development activities to launch more technologically advanced automotive lighting. For instance, at the April 2021 Shanghai Auto Show, Valeo announced the development of the first 360° lighting solution. The technology surrounds the vehicle with a band of light, which projects clear, simple, and instantaneous indications that can be seen by nearby road users, especially vulnerable road users such as cyclists and people on scooters and motor scooters. Similarly, in June 2021, Hyundai Mobis developed a new 'lighting grille' technology, which implements an LED lighting function in the front grille of a car. Hyundai Mobis' 'lighting grille' technology can utilize the entire front grille of the car as a lighting device. It can also implement various scenarios, such as the autonomous driving mode, the EV charging mode, the welcome light function, the sound beat display, and an emergency warning light display. Such innovations are projected to propel the automotive lighting market size over the forecasted period.

### Global Automotive Lighting Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive lighting market report, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on technology, vehicle type, sales channel, and application.

### Breakup by Technology:

Halogen  
Xenon/HID  
LED

LED dominate the market

The automotive lighting market report has provided a detailed breakup and analysis of the market based on technology. This includes halogen, xenon/HID, and LED. According to the report, LED represented the largest segment.

LED lighting has emerged as a dominant segment, which is driving the market growth in this segment. LED lighting offers numerous advantages, including high energy efficiency, longer lifespan, compact size, and design flexibility. It provides superior illumination, improved visibility, and dynamic lighting features. LED technology also enables innovative lighting designs and customizable lighting effects, enhancing the overall aesthetics of vehicles. The automotive industry's increasing focus on energy efficiency, advanced lighting technology, and improved safety has propelled the adoption of LED lighting in vehicles. As a result, various key market players are introducing LED automotive lighting solutions. For instance, Volkswagen partnered with Hella to develop IQ.LIGHT LED headlamps. The new luxury-class Touareg SUV uses the IQ.LIGHT-LED Matrix Headlamps and 256 LED.

### Breakup by Vehicle Type:

Passenger Vehicle  
Commercial Vehicle

Passenger vehicle hold the largest share of the market

A detailed breakup and analysis of the market based on the vehicle type have also been provided in the report. This includes passenger vehicle and commercial vehicle. According to the report, passenger vehicle accounted for the largest market share.

Passenger vehicles represent a significant portion of the market. Furthermore, the escalating sales of passenger vehicles on account of inflating spending capacities of individuals, elevating standards of living, and growing preference for convenient modes of transportation are also contributing to the segment's growth. For instance, revenue in

the passenger cars market is projected to reach US\$ 2,069.0 Billion in 2024. Additionally, passenger car market unit sales are expected to reach 72.54 million vehicles in 2028. With the growing number of passenger vehicle sales globally, there has been a continuous need for innovative and advanced lighting solutions. Passenger vehicle owners increasingly value safety, aesthetics, and enhanced driving experiences. This has led to the adoption of advanced lighting technologies, such as LED headlights, adaptive lighting systems, and dynamic lighting features.

#### Breakup by Sales Channel:

Original Equipment Manufacturers  
Aftermarket

Original equipment manufacturers holds the largest share of the market

A detailed breakup and analysis of the market based on the sales channel have also been provided in the report. This includes original equipment manufacturers and aftermarket. According to the report, original equipment manufacturers accounted for the largest market share.

Original Equipment Manufacturers (OEMs) represent a significant segment of the market. As automotive manufacturers, they integrate lighting systems into new vehicles during manufacturing. With the increasing vehicle production and sales, the demand for automotive lighting by OEMs continues to rise. When selecting vehicle lighting systems, OEMs prioritize quality, performance, design compatibility, and regulatory compliance. Collaboration and partnerships between OEMs and lighting manufacturers create a positive outlook for the market.

#### Breakup by Application:

Front Lighting/Headlamps  
Rear Lighting  
Side Lighting  
Interior Lighting

Front Lighting/Headlamps holds the largest share of the market

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes front lighting/headlamps, rear lighting, side lighting,

and interior lighting. According to the report, front lighting/headlamps accounted for the largest market share.

Front lighting/headlamps are increasingly used in the market for addressing specific application requirements and enhancing overall vehicle safety, visibility, and aesthetics. Front lighting/headlamps are critical in ensuring driver visibility and road safety during nighttime driving and adverse weather conditions. The demand for advanced front lighting systems, including LED and adaptive lighting technologies, is increasing due to their superior performance, energy efficiency, and design flexibility. As vehicle manufacturers strive to incorporate innovative and adaptive front lighting systems to improve driver visibility, these technologies continue to propel the market.

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest automotive lighting market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific exhibits a clear dominance in the global market.

The market in Asia Pacific is primarily driven by the expanding vehicle production, rising disposable incomes, increasing urbanization, and the growing middle class. For instance, According to OICA, automotive production in the region reached 50,020,793 units in 2022, increasing by 7% from 46,768,800 units produced in 2021. China was the largest producer in 2022, followed by Japan, India, and South Korea. Furthermore, in the first nine months of 2022, Indian passenger car sales remained strong due to savings, lower interest rates, and an increasing preference for personal mobility, which convinced customers to buy new cars. As a result, new car registrations in India grew by around 20.2% in the first three quarters of 2022 to reach 2.8 million units. Also, numerous government reforms such as "Aatma Nirbhar Bharat" and "Make in India" support the automotive industry in the country. As a result, the automotive industry in the Asia Pacific is experiencing rapid growth.

#### Competitive Landscape:

Top companies in the market are investing in research and development, top automotive lighting companies are introducing advanced lighting solutions that offer improved performance, energy efficiency, and aesthetics. They are focusing on the development of LED lighting systems, adaptive lighting technologies, and innovative lighting designs that enhance safety and visibility while reducing energy consumption. Moreover, these companies are actively engaging with automotive manufacturers to collaborate on lighting integration and design for new vehicle models. Their strong partnerships and supply chain relationships enable them to secure contracts with major automakers, providing them with a competitive edge in the market. Additionally, top companies are expanding their global footprint by establishing production facilities and distribution networks in key regions. They are strategically targeting emerging markets with growing automotive industries, such as Asia Pacific, to capitalize on the increasing demand for automotive lighting in these regions. Furthermore, these companies invest in marketing and branding activities to create awareness about their lighting solutions and build a strong brand reputation. They actively participate in industry events,

showcase their products in trade shows, and engage in promotional campaigns to reach a wider customer base.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Continental AG  
HELLA GmbH & Co. KGaA (Faurecia SE)  
Hyundai Mobis (Hyundai Motor Group)  
Koito Manufacturing Co. Ltd.  
Koninklijke Philips N.V.  
LG Electronics Inc.  
Lumax Industries Limited  
Marelli Holdings Co. Ltd.  
Osram Licht AG (ams AG)  
Robert Bosch GmbH  
Samsung Electronics Co. Ltd.  
Stanley Electric Co. Ltd.  
Valeo

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

#### Global Automotive Lighting Market Recent Developments:

April 2024: The European Bank for Reconstruction and Development (EBRD) lent ? 15 Million to Serbian automotive lighting producer Feka Automotive to support expansion. The company will use the funds to improve its overall efficiency and increase the availability of reliable lighting devices to customers around the world.

March 2024: Marelli, a renowned automotive supplier, developed an innovative automotive lighting domain control unit platform in China. This platform is designed to manage a vehicle's front lights and rear lights and introduce new 360° lighting features.

January 2024: US-based OLED lighting developer OLEDWorks announced a separate brand for automotive OLED lighting - Atala. The company explained that the new brand will support a line of automotive-qualified OLED lighting products designed specifically for Tier 1 suppliers and original equipment manufacturers (OEMs).

#### Key Questions Answered in This Report



1. What was the size of the global automotive lighting market in 2023?
2. What is the expected growth rate of the global automotive lighting market during 2024-2032?
3. What has been the impact of COVID-19 on the global automotive lighting market?
4. What are the key factors driving the global automotive lighting market?
5. What is the breakup of the global automotive lighting market based on the technology?
6. What is the breakup of the global automotive lighting market based on the vehicle type?
7. What is the breakup of the global automotive lighting market based on sales channel?
8. What is the breakup of the global automotive lighting market based on the application?
9. What are the key regions in the global automotive lighting market?
10. Who are the key players/companies in the global automotive lighting market?

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