

Automotive Exterior Smart Lighting Market– Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Cars, Commercial Vehicles), By Technology Type (Halogen, Xenon, LED, Others), By Product Type (Parking, Fog Light Front, Fog Light Rear, Stop Light, Others), By Region, Competition, 2018-2028

https://marketpublishers.com/r/A6AFC1982D17EN.html

Date: November 2023

Pages: 175

Price: US\$ 4,900.00 (Single User License)

ID: A6AFC1982D17EN

Abstracts

Global Automotive Exterior Smart Lighting Market has valued at USD 1.1 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.06% through 2028. Market CAGR for automotive exterior smart lighting is driven by the increasing adoption of cutting-edge technology products. Vehicle manufacturers are continuously working to create technologically advanced features that are efficient, lightweight, and small. Emerging technologies contain laser, OLED, and matrix-led lighting. The high-beam unit of a matrix led contains 25 separate elements. The matrix LED light can respond appropriately to other automobiles' gratitude to the high-beam feature. Because matrix led is attached to the sensors, it automatically deactivates, activates, or dims the light, confirming that other drivers are not blinded. For instance, in January 2023. Nichia Corporation cooperated with Infineon Technologies to develop a high-definition front illumination system containing 16,000 micro LED matrix solutions.

Market Drivers

Technological Advancements and Innovation

The automotive industry is at the forefront of technological innovation, and the realm of exterior smart lighting is no exception. The integration of advanced technologies,



including Light Emitting Diodes (LEDs), Organic Light Emitting Diodes (OLEDs), and Adaptive Front-Lighting Systems (AFS), has revolutionized automotive lighting capabilities. LEDs, in particular, have emerged as a dominant technology in automotive lighting due to their energy efficiency, durability, and design flexibility. These light sources offer brighter illumination, contributing to improved visibility and safety on the road. Additionally, the ability to incorporate LEDs into dynamic lighting systems allows for adaptive functionalities, such as automatic adjustment of the light pattern based on driving conditions, speed, and environmental factors. OLEDs represent another breakthrough in smart lighting technology. These thin, flexible light sources enable designers to create innovative and customizable lighting designs, enhancing the aesthetic appeal of vehicles. OLEDs also provide uniform illumination, reducing glare and enhancing overall visibility for both drivers and pedestrians. Adaptive Front-Lighting Systems (AFS) further contribute to safety by adjusting the direction and range of the vehicle's headlights based on factors like steering input, speed, and elevation changes. This dynamic control improves visibility around corners and on uneven terrain, significantly enhancing driving safety. As the automotive exterior smart lighting market continues to evolve, ongoing research and development efforts are expected to introduce even more sophisticated technologies, such as matrix lighting systems and augmented reality headlights. These advancements will play a pivotal role in shaping the competitive landscape and driving further adoption of smart lighting solutions.

Safety and Regulatory Compliance

Safety is a paramount consideration in the automotive industry, and exterior smart lighting systems play a crucial role in enhancing vehicle safety. The implementation of intelligent lighting solutions contributes to accident prevention, reduces driver fatigue, and improves overall road safety. Daytime Running Lights (DRLs) are a key safety feature that has become a standard in many vehicles. DRLs enhance vehicle visibility during daylight hours, reducing the risk of collisions and improving the likelihood of pedestrians and other drivers noticing the vehicle on the road. In addition to DRLs, adaptive lighting systems, such as automatic high-beam control and cornering lights, contribute to driver safety by optimizing illumination in various driving conditions. These systems automatically adjust the intensity and direction of the headlights based on the presence of oncoming traffic, surrounding lighting conditions, and the vehicle's speed. Regulatory bodies around the world, including the National Highway Traffic Safety Administration (NHTSA) and the European Union, have implemented safety standards that incentivize the adoption of advanced lighting technologies. Manufacturers must comply with regulations that mandate specific lighting functionalities, ensuring vehicles meet minimum safety standards. As safety regulations continue to evolve, the



integration of smart lighting solutions becomes not only a competitive advantage for automakers but a necessity for regulatory compliance. The ongoing emphasis on road safety and the implementation of stricter safety standards globally will act as a significant driver for the adoption of advanced automotive exterior smart lighting systems.

Growing Consumer Demand for Premium Features

Consumer preferences are evolving, and there is a growing demand for premium features that enhance the overall driving experience. Automotive exterior smart lighting has transitioned from being a functional necessity to a key design element that adds a touch of sophistication and exclusivity to vehicles. The aesthetic appeal of smart lighting systems, especially LED and OLED technologies, is a major driver for consumer demand. These lighting solutions allow for intricate designs, distinctive light signatures, and customizable lighting animations, contributing to the overall visual identity of a vehicle. As consumers become more discerning, automakers are incorporating advanced lighting as a key differentiator in their premium vehicle offerings. The rise of electric vehicles (EVs) and autonomous vehicles further amplifies the importance of exterior smart lighting. EV manufacturers often emphasize futuristic design elements, and smart lighting plays a crucial role in creating a distinctive and futuristic look. For autonomous vehicles, exterior lighting serves as a communication tool, signaling the vehicle's intentions to pedestrians and other road users. The integration of smart lighting features, such as welcome lighting sequences, dynamic turn signals, and ambient lighting, enhances the overall user experience and creates an emotional connection between the driver and the vehicle. Automakers are recognizing the significance of these features in attracting consumers who seek a premium and technologically advanced driving environment. As consumer expectations continue to evolve, automotive manufacturers are likely to invest in advanced lighting technologies to meet the demand for premium features. The incorporation of smart lighting solutions will be crucial for automakers aiming to position their vehicles as cutting-edge, luxurious, and visually distinctive.

Focus on Energy Efficiency and Sustainability

The automotive industry is undergoing a paradigm shift towards sustainability, and energy-efficient lighting technologies play a pivotal role in this transition. LED and OLED lighting solutions are inherently energy-efficient, consuming less power than traditional halogen or incandescent lights. The energy efficiency of smart lighting systems not only aligns with environmental sustainability goals but also contributes to the overall



efficiency of electric vehicles. As the automotive industry increasingly embraces electrification, the importance of minimizing energy consumption becomes a critical consideration. Moreover, the longevity of LED and OLED technologies reduces the frequency of bulb replacements, contributing to lower maintenance costs and reducing the environmental impact associated with the disposal of traditional lighting components. Manufacturers are also exploring ways to integrate renewable energy sources, such as solar panels, into smart lighting systems to further enhance sustainability. These innovative approaches align with the broader industry trend towards eco-friendly practices and are likely to drive the adoption of energy-efficient exterior smart lighting solutions.

Key Market Challenges

Regulatory Compliance and Standardization

One of the primary challenges facing the global automotive exterior smart lighting market is navigating the complex landscape of regulatory compliance and standardization. Governments worldwide are increasingly focusing on safety standards and environmental regulations, influencing the design, functionality, and implementation of smart lighting systems in vehicles. Divergent regulations across regions pose a significant challenge for automotive manufacturers. Different safety standards, lighting requirements, and testing protocols create complexities in developing a unified approach to smart lighting systems. For example, while some regions may mandate specific features for adaptive lighting, others may have different criteria or none at all. Furthermore, as technology evolves, regulatory bodies struggle to keep pace with the rapid advancements in smart lighting. The lack of standardized testing procedures and certification processes for innovative features hampers the seamless integration of these technologies into vehicles. The automotive industry must work collaboratively with regulatory bodies to establish standardized testing methodologies and safety standards for smart lighting systems. A unified approach would not only streamline the compliance process but also ensure that manufacturers can confidently implement cutting-edge technologies without compromising safety or facing hurdles in international markets. As smart lighting systems become more sophisticated and integrated with other vehicle systems, the need for standardized regulations becomes increasingly critical. An industry-wide effort to establish global standards will be essential for fostering innovation and ensuring the safe and efficient adoption of smart lighting technologies.

Cost and Affordability



While the demand for advanced smart lighting features is on the rise, the cost implications associated with implementing these technologies remain a significant challenge for the automotive industry. The integration of state-of-the-art lighting systems, such as matrix lighting, OLED technology, and adaptive lighting, involves substantial research and development costs, sophisticated manufacturing processes, and expensive materials. The cost of producing and implementing smart lighting systems contributes to the overall price of vehicles, potentially limiting the accessibility of these features to higher-end market segments. This creates a dilemma for automakers as they aim to balance the integration of advanced technologies with the affordability expectations of a broader consumer base. Electric vehicles (EVs), in particular, face the challenge of cost considerations. While EV manufacturers strive to offer cutting-edge features to distinguish their products in a competitive market, the pressure to keep prices competitive and align with consumer expectations for affordability is a constant balancing act. To address this challenge, the automotive industry must explore cost-effective manufacturing processes, materials, and technologies without compromising quality and performance. Economies of scale, advancements in production techniques, and strategic partnerships with suppliers can help mitigate the cost burden associated with implementing advanced smart lighting systems. In addition, fostering consumer awareness about the long-term benefits and value proposition of smart lighting features can positively influence purchasing decisions. Manufacturers may need to educate consumers about the safety, energy efficiency, and aesthetic advantages of these technologies to justify the higher upfront costs.

Technological Complexity and Integration

The rapid evolution of smart lighting technologies brings about a challenge of increased technological complexity and the seamless integration of these systems into the broader vehicle architecture. As vehicles become more interconnected and feature-rich, the integration of smart lighting with other electronic components, sensors, and communication systems becomes a critical consideration. Matrix lighting, OLEDs, and adaptive lighting systems require sophisticated electronic control units (ECUs) and software algorithms to operate effectively. Coordinating these elements with existing vehicle systems, such as Advanced Driver Assistance Systems (ADAS) and infotainment, demands a high level of technological expertise and engineering prowess. Moreover, the integration of smart lighting with autonomous driving capabilities further amplifies the complexity. Ensuring that lighting systems communicate effectively with sensors, cameras, and decision-making algorithms poses significant challenges. The coordination of lighting cues to convey the vehicle's intentions to pedestrians and other



road users in autonomous mode adds an additional layer of complexity. To address technological challenges, manufacturers need to invest in robust and adaptable vehicle architectures that facilitate seamless integration of smart lighting features. Collaboration with technology partners, software developers, and other stakeholders in the automotive ecosystem is crucial to overcoming integration hurdles. As the industry moves toward more connected and autonomous vehicles, the challenge of technological complexity will persist. Continuous innovation and a collaborative approach to system integration will be essential for manufacturers to stay at the forefront of the evolving automotive landscape.

Durability and Reliability

Ensuring the durability and reliability of automotive exterior smart lighting systems presents a substantial challenge for manufacturers. Vehicles operate in diverse and often harsh environmental conditions, including extreme temperatures, humidity, road vibrations, and exposure to various contaminants. Traditional automotive lighting components, such as halogen bulbs, have a proven track record of durability. However, the shift to advanced technologies like LEDs and OLEDs introduces new considerations for reliability, especially over an extended period of use. LEDs, while known for their energy efficiency and longevity, can be sensitive to heat and moisture. The potential for LED degradation or failure due to prolonged exposure to adverse conditions requires meticulous design and engineering to implement effective thermal management and sealing solutions. OLEDs, being relatively new to the automotive lighting scene, present specific challenges related to their organic composition. Degradation over time, susceptibility to moisture, and the impact of external elements on OLED panels necessitate extensive testing and development to ensure long-term reliability. Manufacturers must invest in comprehensive testing procedures, accelerated aging tests, and real-world simulations to validate the durability of smart lighting systems. This includes evaluating the performance of lighting components under various environmental conditions and stress testing for extended periods.

Key Market Trends

Integration of Matrix Lighting Systems

Matrix lighting systems represent a groundbreaking trend in the global automotive exterior smart lighting market. Unlike traditional lighting systems that illuminate the road uniformly, matrix lighting allows for precise control of individual light elements, providing dynamic and adaptive illumination. Matrix lighting systems, often based on LED



technology, use an array of small, individually controllable light sources within a single headlight unit. This technology enables selective activation and deactivation of specific light elements, allowing for adaptive beam patterns, enhanced visibility, and improved safety. One of the key advantages of matrix lighting is its ability to create adaptive highbeam patterns that can selectively illuminate or dim specific areas of the road. This not only improves visibility for the driver but also prevents blinding oncoming traffic or vehicles in the same lane. Matrix lighting systems can adjust the light distribution based on factors such as the presence of other vehicles, road curvature, and environmental conditions. As regulatory bodies increasingly acknowledge the safety benefits of matrix lighting, these systems are gaining traction in the automotive market. Manufacturers are integrating matrix lighting into premium vehicle models, positioning it as a sophisticated and safety-enhancing feature. The trend towards autonomous driving also aligns with matrix lighting, as it complements the capabilities of advanced driver assistance systems (ADAS) by providing precise and adaptable illumination. The integration of matrix lighting systems reflects a broader industry shift toward intelligent and adaptive technologies. As consumer expectations for safety and advanced features grow, matrix lighting is poised to become a standard in premium and high-end vehicle segments, driving further innovation in the automotive exterior smart lighting market.

Adoption of OLED Technology for Exterior Lighting

Organic Light Emitting Diode (OLED) technology is revolutionizing automotive exterior lighting, offering a new dimension in design flexibility, efficiency, and aesthetics. Unlike traditional LED or halogen lights, OLEDs are thin, lightweight, and can be made to curve or flex, enabling unique and customizable lighting designs. One of the standout features of OLEDs is their ability to produce uniform illumination across the entire surface. This uniformity eliminates the need for individual light sources, resulting in a seamless and visually striking lighting effect. Automotive designers can leverage OLEDs to create intricate light signatures, animated lighting sequences, and three-dimensional lighting structures that enhance the overall visual appeal of vehicles. OLEDs are increasingly being used for rear combination lamps (RCL), brake lights, and turn signals, allowing for dynamic lighting patterns and improved visibility. The thin and flexible nature of OLEDs also makes them suitable for integration into various vehicle body parts, expanding the possibilities for innovative lighting designs. As the automotive industry places a growing emphasis on vehicle aesthetics and differentiation, OLED technology is gaining prominence in premium and luxury vehicle segments. Consumers are drawn to the sleek and modern appearance of OLED-based lighting systems, making it a key trend in the global automotive exterior smart lighting market. However, challenges such as cost and durability remain considerations for widespread adoption. Manufacturers are



actively addressing these challenges through advancements in production processes and materials. With ongoing improvements, OLED technology is expected to play a pivotal role in defining the visual identity of future vehicles.

Proliferation of Advanced Driver Assistance Systems (ADAS)

The rise of Advanced Driver Assistance Systems (ADAS) is significantly influencing the global automotive exterior smart lighting market. ADAS encompasses a range of technologies designed to enhance driver safety, and the integration of smart lighting systems plays a crucial role in supporting these functionalities. One of the key trends is the synergy between smart lighting and sensor based ADAS technologies. For instance, forward-facing cameras, LiDAR, and radar sensors work in tandem with smart lighting to enable features such as adaptive cruise control, lane-keeping assistance, and collision avoidance. The integration of these sensors with smart lighting allows for improved detection of obstacles, pedestrians, and road conditions. Smart lighting also contributes to the communication aspect of ADAS. Exterior lighting can be utilized to convey information to other road users, pedestrians, and even the vehicle's occupants. This includes using light signals to indicate the vehicle's intention to change lanes, warnings for potential hazards, or alerts for autonomous driving modes. The market is witnessing an increased focus on developing intelligent lighting solutions that complement the capabilities of ADAS. For example, headlights with adaptive beam patterns can adjust in real-time based on the vehicle's speed, steering input, and the presence of other vehicles. This adaptive lighting improves visibility, reduces glare for oncoming traffic, and enhances overall driving safety. The proliferation of ADAS technologies is driving demand for smart lighting features as integral components of a holistic safety ecosystem in vehicles. As regulations and consumer expectations align with the safety benefits of ADAS, smart lighting systems are set to become standard features across a broader range of vehicle segments.

Rise of Dynamic Turn Signals and Sequential Lighting

Dynamic turn signals and sequential lighting are emerging trends in the global automotive exterior smart lighting market, adding both style and functionality to vehicles. Unlike traditional turn signals that use a static blinking pattern, dynamic turn signals employ animated or sequential lighting sequences to indicate changes in direction. One of the advantages of dynamic turn signals is their ability to grab attention and provide clearer communication to other road users. The sequential illumination of individual light elements creates a visually distinctive and eye-catching effect, improving the visibility of the turning maneuver. In addition to turn signals, sequential lighting is being applied to



various exterior lighting elements, including brake lights and daytime running lights. This trend contributes to the overall visual dynamism of the vehicle, aligning with consumer preferences for modern and stylish designs. Automakers are leveraging dynamic turn signals and sequential lighting as differentiating features in their vehicles, especially in premium and high-end segments. The trend resonates with a consumer base that values not only safety and functionality but also the visual aesthetics of their vehicles. The rise of LED technology has facilitated the widespread adoption of dynamic turn signals, as LEDs can be quickly and precisely controlled to create sequential lighting patterns. As consumer awareness and appreciation for these features grow, the trend is expected to influence a broader spectrum of vehicles, ranging from mid-range to entrylevel segments.

Focus on Sustainability and Energy Efficiency

Sustainability and energy efficiency are becoming pivotal considerations in the automotive industry, and these concerns extend to the exterior lighting systems of vehicles. The market is witnessing a growing emphasis on implementing eco-friendly and energy-efficient lighting solutions. LED technology, already prevalent in automotive lighting, is a key enabler of energy-efficient lighting systems. LEDs consume less power than traditional halogen bulbs, contributing to overall fuel efficiency in internal combustion engine vehicles and extending the driving range of electric vehicles (EVs). Moreover, the longevity of LED lighting reduces the frequency of bulb replacements, lowering maintenance costs and minimizing the environmental impact associated with the disposal of traditional lighting components. As the automotive industry increasingly embraces sustainability, LED technology aligns with the broader goals of reducing carbon footprints and minimizing resource usage. Manufacturers are exploring additional avenues to enhance the sustainability of automotive lighting. This includes the integration of renewable energy sources, such as solar panels, into smart lighting systems. Solar-powered lighting elements, combined with energy-efficient LEDs, contribute to reducing the overall environmental impact of vehicles.

Segmental Insights

Product Type Analysis

Based on Product type, the Automotive Exterior Smart Lighting market is segmented into parking, front and rear fog lights, stop lights, side signals, headlamps, brake/taillights, license/number plate lights, and panel lights. The market was dominated by the panel lights category. The increasing use of better internal lighting systems in



mid- and high-end automobiles is what propels category growth in developing nations. Nonetheless, due to the increasing use of front fog headlights in safety systems and the upscale design of cars, fog light front is the category with the fastest rate of growth over the projection period.

Regional Insights

Due to increased emphasis on road safety and the implementation of more stringent government regulations, the Asia-Pacific automotive exterior smart lighting market is expected to grow at a rapid pace. Furthermore, the automotive exterior smart lighting market in China commanded the highest market share, while the automotive exterior smart lighting market in India grew at the fastest rate in the Asia-Pacific area. Due to the region's high demand for reasonably priced mechanical and electrical components, as well as easy access to raw materials, Europe has the second-largest market share for automotive exterior smart lighting. The fastest compound annual growth rate (CAGR) is anticipated in the North American automotive exterior smart lighting market..

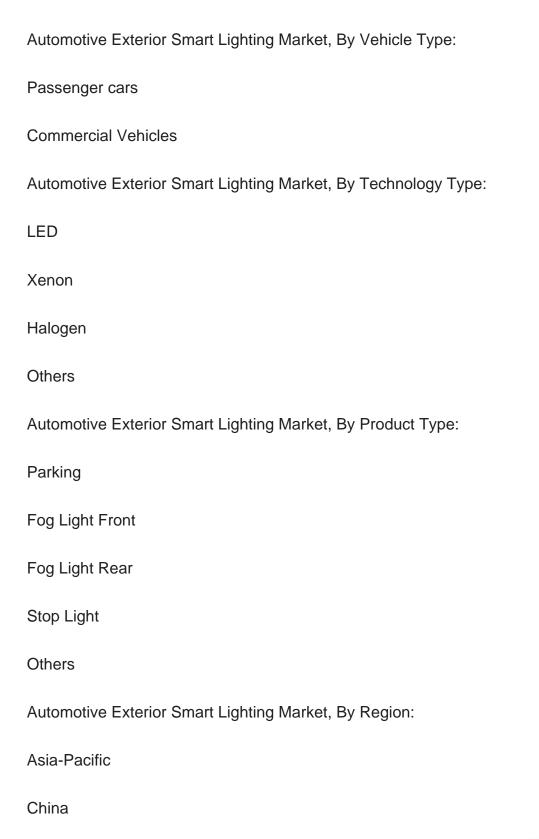


Sammoon Lighting



Report Scope:

In this report, the Global Automotive Exterior Smart Lighting Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:





India
Japan
Indonesia
Thailand
South Korea
Australia
Europe & CIS
Germany
Spain
France
Russia
Italy
United Kingdom
Belgium
North America
United States
Canada
Mexico
South America



Brazil		
Argentina		
Colombia		
Middle East & Africa		
South Africa		
Turkey		
Saudi Arabia		
UAE		
Competitive Landscape		
Company Profiles: Detailed analysis of the major companies present in the Global Automotive Exterior Smart Lighting Market.		
Available Customizations:		
Global Automotive Exterior Smart Lighting market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:		
Company Information		
Detailed analysis and profiling of additional market players (up to five).		



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