

Infrared LED Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (LED Emitters, Photodiodes, Optoelectronics, Integrated Assemblies), By Material (Gallium Arsenide (GaAs) LEDs, Aluminium Gallium Arsenide (AlGaAs) LEDs, Indium Gallium Arsenide (InGaAs) LEDs, Others), By End User (Electronics and IT, Healthcare and Life Sciences, Automotive Industry, Aerospace and Defense, Industrial Manufacturing) By Region, By Competition, 2019-2029F

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Abstracts

Global Infrared LED market has experienced tremendous growth in recent years and is poised to maintain strong momentum through 2029. The market was valued at USD 712 million in 2023 and is projected to register a compound annual growth rate of 14.23% during the forecast period.

Over the past decade, the global market for Infrared Light Emitting Diodes (IR LEDs) has witnessed remarkable growth, propelled by widespread adoption across a multitude of industrial sectors. Industries spanning manufacturing, healthcare, transportation, and logistics have increasingly recognized the intrinsic value offered by IR LED solutions. This recognition has spurred significant investments in advanced technologies aimed at meeting analytical requirements and enhancing operational efficiency, particularly in challenging underwater conditions.

Prominent players in the IR LED market have introduced innovative solutions integrating

features such as wireless connectivity, real-time data visualization, and scalable data infrastructure. These advancements have facilitated automation and the generation of strategic insights for effective performance monitoring. The deployment of IR LED solutions empowers business leaders to ensure precise data capture even in adverse underwater conditions, enabling them to extract maximum value and optimize operations. Collaborative endeavors with specialists across diverse sectors have led to the development of customized IR LED solutions tailored to unique analytical needs and strategic objectives, especially in demanding underwater environments. The industry's response to the growing emphasis on evidence-based decision-making has spurred demand for displays proficient in capturing high-quality visual data across varied underwater settings.

The integration of transformative technologies such as the Internet of Things (IoT), sensors, and analytics platforms has revolutionized the capabilities of IR LED systems. These systems excel in supporting end-to-end data workflows, including large-scale, high-quality visual data collection in challenging underwater conditions, thereby establishing the IR LED market as a vital component for enduring prospects. With the increasing demand for precise and efficient data capture and analytics across industries operating in demanding underwater environments, the IR LED market is poised to maintain its upward trajectory well into the foreseeable future.

Key Market Driver

Increasing Demand in Surveillance and Security Applications:

In an era marked by heightened concerns over safety and security, the Infrared LED market is experiencing a significant surge in demand, primarily fueled by the expanding applications in surveillance and security systems. The inherent ability of Infrared LEDs to provide superior night vision and enhance the effectiveness of surveillance cameras has made them indispensable in various sectors, including commercial, residential, and governmental. As businesses and individuals alike prioritize safeguarding their assets, the adoption of advanced monitoring solutions has become paramount. Infrared LEDs play a pivotal role in this landscape, driving their rapid integration into security cameras, access control systems, and other surveillance technologies. The ever-growing need for robust security infrastructure is a compelling driver propelling the Infrared LED market forward.

Pervasive Integration in Consumer Electronics:

The Infrared LED market is experiencing robust growth as a result of its pervasive integration into a wide array of consumer electronics. From smartphones to smart TVs, Infrared LEDs have become integral components, contributing to enhanced functionalities and user experiences. The proliferation of remote-controlled devices and the evolution of smart home ecosystems further underscore the significance of Infrared LEDs. These LEDs enable seamless communication between devices, allowing users to control various electronic appliances with precision. The entertainment industry, in particular, has witnessed a surge in demand for Infrared LED technology, enhancing the capabilities of remote controls and enabling interactive features in gaming consoles. As consumer electronics continue to advance, the Infrared LED market is poised to expand further, driven by the insatiable demand for innovative and interconnected devices.

Rising Adoption in Automotive Safety Systems:

One of the key drivers propelling the Infrared LED market is the increasing adoption of these LEDs in automotive safety systems. As the automotive industry undergoes a transformative shift towards autonomous and semi-autonomous vehicles, the need for advanced sensing technologies becomes paramount. Infrared LEDs, particularly in collaboration with LiDAR (Light Detection and Ranging) systems, play a crucial role in enabling enhanced perception capabilities for vehicles. Applications such as night vision assistance, pedestrian detection, and obstacle avoidance leverage the unique properties of Infrared LEDs to operate effectively in low-light or challenging weather conditions. Governments worldwide are emphasizing stringent safety regulations, further accelerating the integration of Infrared LED technology into automotive design. The intersection of technology and automotive safety represents a lucrative growth avenue for the Infrared LED market, as manufacturers strive to enhance the safety and reliability of next-generation vehicles.

These three drivers underscore the diverse and dynamic forces propelling the Infrared LED market forward. From meeting the demands of modern security landscapes to transforming consumer electronics and revolutionizing automotive safety, Infrared LEDs are at the forefront of technological innovation. As these drivers continue to shape industry dynamics, the Infrared LED market is poised for sustained growth and influence across multiple sectors.

Key Market Challenges

Technological Barriers and RD Challenges:

The Infrared LED market faces significant challenges, primarily rooted in technological barriers and research and development (RD) complexities. As demands for enhanced performance, miniaturization, and cost-effectiveness continue to rise, manufacturers encounter obstacles in pushing the technological boundaries of Infrared LED devices. Achieving higher levels of efficiency, expanding the spectral range, and improving the reliability of Infrared LEDs pose substantial challenges for researchers and engineers. The intricacies of developing cutting-edge materials, such as those based on advanced compound semiconductors like Indium Gallium Arsenide (InGaAs) or Gallium Nitride (GaN), demand extensive RD investments. Additionally, maintaining a balance between performance improvements and cost considerations remains a delicate task, as the market seeks to offer high-quality Infrared LEDs at competitive price points. The competitive landscape further intensifies these challenges, prompting companies to continually invest in RD to stay ahead of the curve. Overcoming these technological barriers requires sustained innovation and collaboration within the industry, as well as strategic partnerships with research institutions and universities.

Price Fluctuations and Cost Challenges:

Another formidable challenge confronting the Infrared LED market revolves around price fluctuations and cost-related hurdles. The cost of manufacturing Infrared LEDs is influenced by several factors, including raw material prices, production processes, and economies of scale. The complexity of the manufacturing process, which often involves sophisticated semiconductor fabrication techniques, contributes to higher production costs. The pricing dynamics are further impacted by the competitive nature of the market, with numerous players vying for market share. The challenge lies in striking a delicate balance between offering high-quality Infrared LEDs and maintaining competitive pricing structures. As demand for these LEDs increases across diverse applications, manufacturers face the ongoing challenge of optimizing production costs to ensure market viability. Moreover, external factors such as geopolitical events, trade policies, and fluctuations in commodity prices can introduce uncertainties, affecting the overall cost structure of Infrared LED production. Navigating these challenges necessitates strategic cost management, supply chain resilience, and a keen understanding of market dynamics to ensure sustained profitability in the Infrared LED market.

These challenges underscore the complexities inherent in the Infrared LED market, requiring a strategic and collaborative approach to overcome technological and cost-related hurdles. As the industry continues to evolve, addressing these challenges will be crucial for sustaining growth, fostering innovation, and ensuring the widespread

adoption of Infrared LED technology across various sectors.

Key Market Trends

Integration of Infrared LEDs in Biometric Applications:

The Infrared LED market is witnessing a notable trend with the increasing integration of these LEDs in biometric applications. As biometric technology becomes integral to identity verification and access control systems, Infrared LEDs play a crucial role in enhancing the accuracy and reliability of biometric sensors. Infrared light enables features such as facial recognition and fingerprint scanning to function effectively in various lighting conditions, including low light or complete darkness. This trend is particularly prominent in sectors such as finance, healthcare, and government, where stringent security measures and seamless user authentication are paramount. As biometric solutions continue to gain traction, the Infrared LED market is positioned to experience sustained growth through its vital role in advancing biometric applications.

Growing Demand for Infrared LEDs in LiDAR Technology:

An emerging trend shaping the Infrared LED market is the growing demand for these LEDs in Light Detection and Ranging (LiDAR) technology. LiDAR systems, critical for depth perception and object recognition in autonomous vehicles and various industrial applications, heavily rely on Infrared LEDs to illuminate surroundings and gather accurate spatial information. As the automotive industry moves toward autonomous driving, LiDAR adoption is on the rise, consequently propelling the demand for Infrared LEDs. This trend extends beyond automotive applications to include robotics, industrial automation, and smart city initiatives, highlighting the versatility of Infrared LED technology. The Infrared LED market is poised to capitalize on this trend by catering to the evolving needs of LiDAR-based sensing solutions.

Advancements in Quantum Dot Infrared LEDs (QD-IR LEDs):

Advancements in Quantum Dot Infrared LEDs (QD-IR LEDs) represent a significant trend in the Infrared LED market. Quantum dots, nanoscale semiconductor particles, are integrated into Infrared LEDs to enhance their performance, efficiency, and spectral range. This technology allows for precise control over the emitted wavelength, enabling applications in areas such as medical imaging, environmental sensing, and telecommunications. The use of Quantum Dot Infrared LEDs addresses some of the technological challenges associated with traditional Infrared LEDs, including narrow

bandwidth and limited tunability. As research and development efforts in this space continue to progress, the market is likely to witness a surge in demand for Quantum Dot Infrared LEDs, opening new avenues for innovation and market expansion.

These trends showcase the dynamic evolution of the Infrared LED market, driven by advancements in technology and the increasing adoption of these LEDs in diverse applications. From biometrics to LiDAR and Quantum Dot technologies, these trends signal a promising future for Infrared LED technology across various industries.

Segmental Insights

By Component Insights

The LED Emitters segment dominated the global Infrared Light Emitting Diode Market in 2023. Infrared LED emitters have widespread applications across various industries such as automotive, consumer electronics, industrial, and medical. Their use in proximity sensors, night vision cameras, remote controls, optical communication devices, phototherapy equipment, and various analytical instruments has propelled the demand for infrared LED emitters. This extensive integration of infrared LED emitters is expected to continue driving their market dominance during the forecast period from 2023 to 2029. Other segments such as photodiodes, optoelectronics, and integrated assemblies are also gaining traction. However, the LED emitters segment is anticipated to maintain its leadership position with its increasing use across new application areas and the launch of advanced emitter technologies with enhanced optical and electrical properties. Key players are focusing on developing miniature and ultra-compact infrared LED emitters with high output power and wavelength customization capabilities to cater to the evolving needs of diverse end-use industries. This includes industries operating in challenging underwater environments requiring high-quality visual data capture.

By Material Insights

The Gallium Arsenide (GaAs) LEDs segment dominated in the global Infrared Light Emitting Diode Market in 2023. GaAs is a widely used material for manufacturing infrared LEDs due to its optimal bandgap that allows emission of infrared light in the 850nm range. It offers high optical output, low switching times, and long operational lifespan. These advantages have resulted in GaAs becoming the preferred material for infrared LEDs used in various applications including optical fiber communications, remote controls, night vision devices, analytical instruments, and biometric equipment. The extensive use of GaAs infrared LEDs across such diverse application fields is

expected to drive the material segment's continued dominance during the forecast period from 2023 to 2029. Other material segments involving Aluminium Gallium Arsenide (AlGaAs) and Indium Gallium Arsenide (InGaAs) LEDs are also gaining traction due to their emission in specific infrared ranges. However, GaAs LEDs are anticipated to retain their leadership position owing to ongoing research and development for enhancing their performance capabilities to meet the evolving demands of end-use sectors, especially those operating in underwater environments requiring high-quality infrared visual data collection.

Regional Insights

Asia Pacific dominated the global Infrared Light Emitting Diode Market in 2023. The significant share of the Asia Pacific region in the Infrared Light Emitting Diode (IR LED) market can be attributed to robust manufacturing activities and the rapid adoption of IR LEDs across diverse industries in key countries such as China, Japan, Taiwan, and South Korea. The presence of leading IR LED manufacturers, coupled with access to raw materials and cost-effective labor, has rendered the Asia Pacific region highly attractive. Additionally, substantial growth in end-use sectors like consumer electronics, automotive, industrial, and medical is fueling the demand for IR LEDs in the region. Forecasts indicate that the Asia Pacific IR LED market is poised to maintain its dominant position throughout the forecast period from 2023 to 2029. However, North America and Europe are also emerging as promising regional markets, driven by heightened research and development efforts aimed at advancing IR LED technologies. Nonetheless, Asia Pacific is expected to uphold its leadership status, supported by the escalating manufacturing output from China and the increasing adoption of industrial automation across various sectors, including those operating in underwater environments that necessitate sophisticated IR visual data collection capabilities.

Key Market Players

OSRAM Opto Semiconductors GmbH

Epistar Corporation

Everlight Electronics Co., Ltd

Nichia Corporation

Lumileds Holding B.V

High Power Lighting Corp

Kingbright Company, LLC

Lextar Electronics Corporation

EPILEDs Technologies, Inc

Koninklijke Philips N.V

Report Scope:

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

Infrared LED Market,By Component:

oLED Emitters.

oPhotodiodes.

oOptoelectronics.

oIntegrated Assemblies.

Infrared LED Market,By Material:

oGallium Arsenide (GaAs) LEDs

oAluminium Gallium Arsenide (AlGaAs) LEDs

oIndium Gallium Arsenide (InGaAs) LEDs

oOthers

Infrared LED Market,By End User:

oElectronics and IT

oHealthcare and Life Sciences

oAutomotive Industry

oAerospace and Defense

oIndustrial Manufacturing

Infrared LED Market, By Region:

oNorth America

United States

Canada

Mexico

oEurope

France

United Kingdom

Italy

Germany

Spain

oAsia-Pacific

China

India

Japan

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Infrared LED Market.

Available Customizations:

Global Infrared LED Market report with the given market data, Tech Sci Research offers

Infrared LED Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (...)

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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