

Light Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global light sensors market size reached US\$ 2.9 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 5.2 Billion by 2027, exhibiting a growth rate (CAGR) of 10.4% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Light sensors measure radiant energy that ranges in frequency from infrared (IR) to ultraviolet (UV) light spectrum and converts it into electrical signals. These sensors can be connected to a sprinkler system to help farmers keep crops hydrated. They can also be used with weather-monitoring equipment to optimize the watering schedule. As they are versatile and economical, they are utilized in freight shipping to track cargos to detect the change in light exposure whenever a container is opened. Other than this, light sensors find application in modern smartphones, computers, television (TV) remotes, automobiles and streetlamps to adjust the brightness and turn on the lights automatically.

Due to inflating disposable incomes, individuals are spending more on domotics or home automation, which represents one of the key factors impelling the market growth. Moreover, governments of various countries are investing in the development of smart cities, which is acting as another major growth-inducing factor. Furthermore, wide applications of light sensors in barcode scanners, Quick Response (QR) codes and intrusion detection systems (IDS) are bolstering the market growth. Besides this, pulse oximeters, which are incorporated with light sensors, are gaining popularity worldwide as they are being used to measure the oxygen saturation level in the coronavirus disease (COVID-19) patients. Recently, a research team from Empa, ETH Zurich and

Zurich University Hospital has started working on designing a sensor that can measure the concentration of the new coronavirus (SARS-CoV-2) in the environment. The device can measure the virus concentration in the air by using localized surface plasmon resonance (LSPR) technology, which relies on an optical sensor. These technological advancements and new product developments along-with the increasing industrial automation, and collaborations and partnerships in the industry are expected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global light sensors market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on function, output, integration and end use industry.

Breakup by Function:

- Ambient Light Sensing
- Proximity Detection
- RGB Color Sensing
- Gesture Recognition
- UV/Infrared Light (IR) Detection

Breakup by Output:

- Analog
- Digital

Breakup by Integration:

- Discrete
- Combination

Breakup by End Use Industry:

- Consumer Electronics
- Automotive
- Home Automation
- Industrial Automation
- Healthcare

Entertainment
Others

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

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being ams AG, Apple Inc., Broadcom Inc., Everlight Electronics Co. Ltd., Maxim Integrated Products Inc., ROHM Co. Ltd., Samsung Electronics Co. Ltd., Sharp Corporation (Foxconn Group), Sitronix Technology Corp., STMicroelectronics SA, Texas Instruments Incorporated and Vishay Intertechnology Inc.

Key Questions Answered in This Report:

How has the global light sensors market performed so far and how will it perform in the

coming years?

What has been the impact of COVID-19 on the global light sensors market?

What are the key regional markets?

What is the breakup of the market based on the function?

What is the breakup of the market based on the output?

What is the breakup of the market based on the integration?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global light sensors market and who are the key players?

What is the degree of competition in the industry?

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