

Light Sensors Market Report by Function (Ambient Light Sensing, Proximity Detection, RGB Color Sensing, Gesture Recognition, UV/Infrared Light (IR) Detection), Output (Analog, Digital), Integration (Discrete, Combination), End Use Industry (Consumer Electronics, Automotive, Home Automation, Industrial Automation, Healthcare, Entertainment, and Others), and Region 2024-2032

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Abstracts

The global light sensors market size reached US\$ 3.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 7.7 Billion by 2032, exhibiting a growth rate (CAGR) of 8.8% during 2024-2032.

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 2024-2032. 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

1. What was the size of the global light sensors market in 2023?
2. What is the expected growth rate of the global light sensors market during 2024-2032?
3. What are the key factors driving the global light sensors market?
4. What has been the impact of COVID-19 on the global light sensors market?
5. What is the breakup of the global light sensors market based on the function?
6. What is the breakup of the global light sensors market based on the output?
7. What is the breakup of the global light sensors market based on integration?
8. What is the breakup of the global light sensors market based on the end use industry?
9. What are the key regions in the global light sensors market?
10. Who are the key players/companies in the global light sensors market?

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