

Image Sensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global image sensors market size reached US\$ 24.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 41.4 Billion by 2028, exhibiting a growth rate (CAGR) of 9.15% during 2023-2028.

An image sensor is an electronic device that converts incoming light or photons into an electronic signal that can be viewed, stored, or analyzed in machine vision cameras and analog and digital imaging devices. It is used as a critical component in medical camera modules and night vision tools, such as radar, sonar, and thermal imaging devices, to detect and transmit information. It is widely available in various packages, formats, structures, chroma, resolution, frame rate, and pixel sizes. At present, several manufacturers are introducing new variants with improved sensor size, resolution, speed, and light sensitivity.

Image Sensors Market Trends:

The increasing use of smartphones for on-demand photography represents one of the key factors influencing the adoption of image sensors to make sophisticated cameras embedded in these devices. Apart from this, the emerging trend of connected vehicles on account of the growing number of road accidents is catalyzing the demand for compact, robust, and cost-effective image sensors. These sensors are incorporated in camera-enabled systems for autonomous driving, video mirror, rearview, automatic emergency braking, 360-degree surround view, driver monitoring, and comfortable and safe riding experiences. Moreover, they are extensively utilized in barcode scanners that are gaining traction in the healthcare industry to get real-time insights into medical supplies, staff, and assets. In addition to this, the escalating need for medical

assistance due to the rising prevalence of chronic diseases is contributing to market growth. Besides this, leading manufacturers are introducing modern image sensors that can be utilized in closed-circuit television (CCTV) security cameras for video surveillance in residential, commercial, and industrial spaces. This, in confluence with a significant rise in the demand for CCTV cameras on account of increasing security concerns, is influencing the market positively.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global image sensors market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology, processing type, spectrum, array type and end use industry.

Breakup by Technology:

- Complementary Metal-Oxide-Semiconductor (CMOS)
- Charge-Coupled Device (CCD)
- Others

Breakup by Processing Type:

- 2D Image Sensors
- 3D Image Sensors

Breakup by Spectrum:

- Visible Spectrum
- Non-visible Spectrum

Breakup by Array Type:

- Linear Image Sensors
- Area Image Sensors

Breakup by End Use Industry:

- Consumer Electronics
- Healthcare
- Security and Surveillance

Automotive and Transportation
Aerospace and Defense
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 competitive landscape of the industry has also been examined along with the profiles of the key players being ams-OSRAM AG, Canon Inc., Hamamatsu Photonics K.K., OmniVision Technologies Inc., onsemi, Panasonic Holdings Corporation, PixArt Imaging Inc., Samsung Electronics Co. Ltd., Sharp Corporation, SK hynix Inc., Sony Corporation, STMicroelectronics, Teledyne Technologies Incorporated and Toshiba Corporation.

Key Questions Answered in This Report

1. What was the size of the global image sensors market in 2022?
2. What is the expected growth rate of the global image sensors market during 2023-2028?
3. What are the key factors driving the global image sensors market?
4. What has been the impact of COVID-19 on the global image sensors market?
5. What is the breakup of the global image sensors market based on the technology?
6. What is the breakup of the global image sensors market based on the processing type?
7. What is the breakup of the global image sensors market based on spectrum?
8. What is the breakup of the global image sensors market based on the array type?
9. What is the breakup of the global image sensors market based on the end use industry?
10. What are the key regions in the global image sensors market?
11. Who are the key players/companies in the global image sensors market?

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