

Global Image Sensors Market Analysis and Forecast till 2028

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Report description:

Global Image Sensors Market Analysis and Forecast 2019-2028

Market Introduction

The global image sensors market is estimated to witness a growth rate of more than 8% during the forecast period 2022-2028. An image sensor is a device that allows the camera to convert photons i.e., light into electrical signals that can be inferred by the device. It further helps to get a better image quality, superior frame rate, and dynamic range along with reduced noise.

A rapid rise in the incorporation of high-resolution cameras equipped with image sensors in mobile devices drives the growth of the market. In addition, the rise in the adoption of image cameras for automotive applications coupled with the growing use of advanced driver-assistance systems (ADAS) in automobiles gives a boost to the growth of the global image sensors market.

However, the high manufacturing costs of large chip image sensors are expected to be one of the key restraints of the global image sensors market.

Market Segmentation

The global image sensors market is segmented into Type, processing type, resolution, application, and region. Based on type, the market is divided into CMOS (Complementary Metal Oxide Semiconductors), and CCD (Charged Couple Device). On the basis of Processing Type, the market is divided into 2D Processing and 3D Processing. Based on Resolution, the market is segmented into VGA, less than 16 Mega Pixels, 16-32 Mega Pixels, 32-64 Mega Pixels, and More than 64 Mega Pixels. On the basis of Application, the market is segmented into Consumer Electronics, Automotive, Security and Surveillance, Healthcare, Aerospace & Defence, and Others (Entertainment).

Based on region, the market is divided into North America, Latin America, Western Europe, Eastern Europe, Asia Pacific, and Middle East & Africa. Further, North America is divided into US and Canada. Latin America is further segmented on the basis of Brazil, Mexico, and the Rest of Latin America. Western Europe is further segmented into Germany, the UK, France, Spain, Italy, Benelux, Nordic, and the rest of western Europe. Eastern Europe is segmented into Russia, Poland, and the rest of Eastern Europe. Based on the Asia Pacific, the market is further segmented into China, India, Japan, South Korea, Australia, ASEAN (Indonesia, Vietnam, Malaysia, etc.) countries, and the rest of Asia Pacific. Lastly, on the basis of the Middle East & Africa market is segmented into GCC Countries, South Africa, Turkey, and the rest of the Middle East & Africa.

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Market structure and competitive landscape

The global image sensors market is fragmented in nature with presence of various players operating in the market. Some of the prominent players that contribute significantly to the global image sensors market include Canon Inc., Sony Corporation, Samsung Electronics Co. Ltd., Panasonic Corporation, Toshiba Corporation, OmniVision Technologies Inc., ON Semiconductors Corporation, Galaxy Core Inc., Teledyne Technologies Inc., Sharp Corporation, STMicroelectronics, Hamamatsu Photonics K.K., NXP Semiconductors, and Infineon Technologies A.G among Others.

These players adopt various strategies in order to reinforce their market share and gain a competitive edge over other competitors in the market. Mergers and acquisitions, partnerships and collaborations, and product launches are some of the strategies followed by industry players. Some of the key developments in the global image sensors market include,

- In June 2022, Samsung introduced the 200MP ISOCELL HP3, the image sensor with the industry's smallest 0.56-micrometer (0.56µm)-pixels. The sensor allows users to take videos in 8K at 30 frames-per-second (fps) or 4K at 120fps, with minimal loss in the field of view. Combined with the Super QPD solution, users can take movie-like cinematic footage with their mobile devices.

- In December 2021, Sony has developed the world's first stacked CMOS image sensor technology with 2-layer transistor pixels.

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