
Description:

The CMOS image sensor is turning out to be an alternative for the CCD image censor due to its high integration and high performance. Image sensors are sensors that convey information that constitutes an image, the main job of CMOS and CCD is to capture light and convert it into electrical signals. CMOS image sensors are taken over most of the markets in technology from security systems to automotive safety systems.

Supply - Demand Scenario:

This market was valued at USD 8.1 billion in 2014 and is expected to grow at CAGR of 11.17% for the forecasted period reaching USD 15.29 billion by 2020.

Growth based on geography:

APAC has dominated the CMOS image sensor market accounting for 37% market share in 2014; it is expected to grow at a high CAGR of 12.8% between 2015 and 2020. The growth in APAC is mainly due to the adoption of dual camera mobile phones. North America has also one of the largest regional industries in terms of revenue. Developing economies like India, China and Latin America countries are expected to majorly contribute to CMOS image sensor industry growth.

Europe market also has a considerable revenue share of USD 2 billion in 2014 and is expected to grow at a CAGR of 3.2% from 2014 to 2020.

Drivers and Constraints:

The major driver for this market is the increasing use of electronics in the consumer market; it is believed that consumer electronics is expected to lead the CMOS image sensor market. These sensors provide better quality pictures compared to CCD hence making it more desirable by consumers. Most of the major suppliers of this are responding to the shift in what’s driving sales growth, companies are aiming to become the largest supplier’s by the end of 2020.

Industry Trends and Updates:

With the invention of CMOS, it is taking over the market which till recently is being run by CCD (Charge Coupled Devices). CMOS image sensors are the future for the technology world, as they can be implemented with fewer components, use less power and are less expensive.

At present Sony has been dominating the market, but with the growth of this technology many companies are entering the market increasing the competition. Some companies are unable to satisfy the demand of vendors situated in their region; this shortage is mainly occurring in the APAC region due to the high demand and this can be a major restraint for the development of the market.

The future:

The application of CMOS image sensors in biotechnology and medicine have emerged, many applications require advanced performance, which the conventional image sensors are unable to do. This system is planning to enhance and improve its present system and the implement new functions, for this many structures and materials have been proposed, soon making these image sensors the future of technology.

Leading CMOS image sensor manufacturers are making changes to their product portfolio’s to meet this shift in growth over the next 5 years.
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