Image Sensors Market Analysis By Technology (CMOS, CCD); by Application (Consumer Electronics, Industrial, Medical, Security and Surveillance) and Geography & Forecast (2014 - 2020)

Description: Predominantly, image sensors are used in digital cameras and several imaging devices; and these devices find their application in various sectors such as industrial, medical, consumer electronics and so on. Owing to the growth in digital cameras, camcorders, smartphones, tablets and security cameras (CCTVs), the image sensors are witnessing significant growth across the globe. Image sensors market has become highly competitive as manufacturers are constantly devising new and advanced solution to enhance pixel size, pixel count, resolution, and performance which in turn help them to maintain their dominancy in market.

From past five years, image sensors have been experiencing significant demand, as image sensors are widely been used in smartphones, tablets, camcorders and others devices. Digital cameras use an array of photo-sites to record the desired image. The extent of light which require by the camera to form an image depends upon the size of the image sensor incorporated in it. Larger sensors allow manufacturers to enhance the resolution of the camera, giving rise to clearer images. However, they significantly increase the size of the resultant device. As a result, very small image sensors are used in smartphones in order to ensure portability. Moreover, digital cameras such as DSLRs and mirror less interchangeable lens cameras are fitted with larger sensors to address the need of superior image quality. The global image sensors market is estimated to reach $XX bn in 2020, growing at a CAGR of around XX% during the forecast period 2015-2020. North America leads the market currently with a share of around XX% in 2014, followed by APAC with XX% market share. It is estimated that APAC would be leading the market with revenues of around $XX bn in 2020 and a share of XX%, as the demand for consumer electronics and use of robotics, machine vision based systems in the Asian market increases significantly over the next 5 years.

The report consists of detailed study of the image sensor globally along with regional analysis of the industry. The image sensor market is studied for various applications which include consumer electronic, medical devices, industrial security and surveillance, transportation and others. The market for image sensor according to the technology (CMOS, CCD & CIS) is determined for each application separately.

Some of the key players operating in the market include:

- Aptina Imaging Corporation
- Omnivision Technologies
- Sony Corporation
- Samsung Electronics
- On Semiconductor
- STMicroelectronics

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