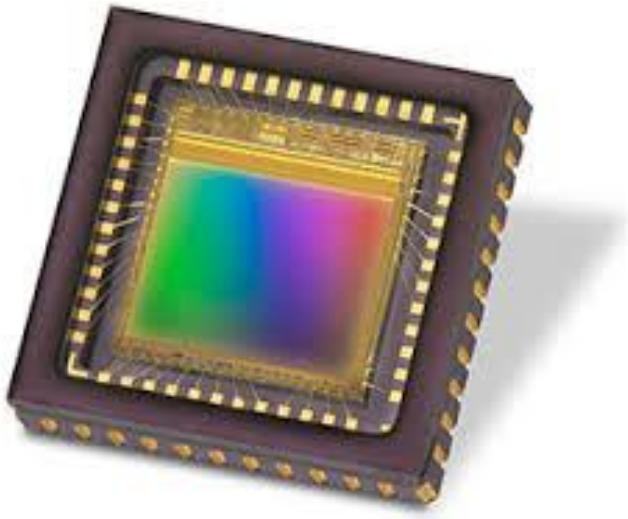
Global CMOS Image Sensor Market: Size, Trends & Forecasts (2017-2021)

March 2017



Daedal Research

Global CMOS Image Sensor Market Report

Scope of the Report

The report titled "Global CMOS Image Sensor Market: Size, Trends & Forecasts (2017-2021)", provides an in-depth analysis of the global CMOS image sensors market by value, by volume, by segments and by region.

The report provides an analysis of CMOS image sensor market of the following regions: North America, Asia-Pacific and Europe.

The report also assesses the key opportunities in the market and outlines the factors that are and will be driving the growth of the industry. Growth of the overall global CMOS image sensors market has also been forecasted for the period 2017-2021, taking into consideration the previous growth patterns, the growth drivers and the current and future trends.

The competition in global CMOS image sensors market is dominated by the four big players, Sony Corporation, Samsung Electronics, ON Semiconductor and OmniVision Technologies, Inc., whose company profiling has been done in the report, which include their financial information and respective business strategies.

Country Coverage

Asia-Pacific

North America

Europe

Company Coverage

Sony Corporation

Samsung Electronics

Omnivision Technologies, Inc.

ON Semiconductor Corporation

Global CMOS Image Sensor Market Report

Executive Summary

Image sensor is an electronic, photosensitive device that converts an optical image into an electronic signal. The image sensor reacts to the impact of photons, thus converting them into an electrical current which is then passed onto an analog-digital converter. There are different kinds of image sensors that could be classified on the basis of supply voltage, packaging type and supply current. The image sensors could be classified by technology into CCD- Charged-Coupled Device and CMOS-Complementary Metal-Oxide Semiconductor.

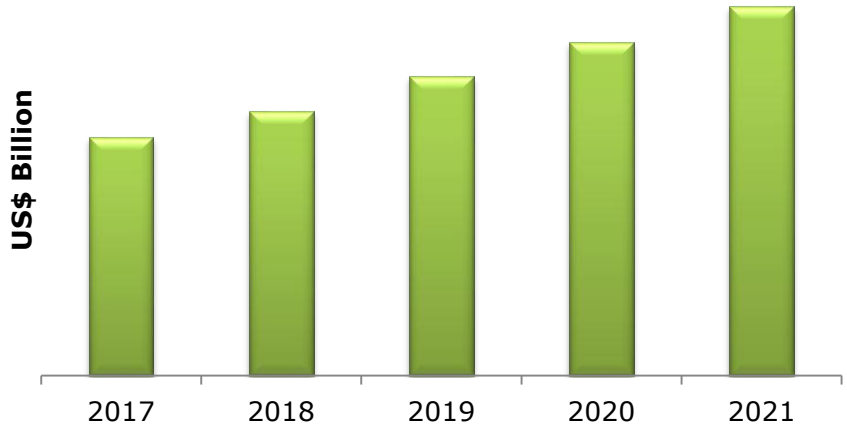
The CMOS is used in making transistors. CMOS-based transistors use only one charge at a time, they run efficiently that utilize very little power. This is because the charge tends to stay in one state for a long period of time. The CMOS based transistors run at extremely high speed. The low power consumption of CMOS allows the memory to be powered by a simple lithium battery for several years.

CMOS image sensor incorporates camera-on-chip technology, which allows customized multiple circuitry to be added to the single chip without any supporting chips. The CMOS technology is of two types: Conventional CMOS Image Sensor Technology and Advanced CMOS Image Sensor Technology. CMOS image sensors have varied applications: surveillance/ security, automotive, digital cameras, camera phones, medical & scientific fields, etc.

Global CMOS image sensor market has increased at a significant CAGR during the years 2013-2016 and projections are made that the market would rise in the next four years i.e. 2017-2021 tremendously. The CMOS image sensor market is expected to increase due to growth in automotive sector, increase in fingerprint sensor market, increase in security/surveillance technology, acceleration in smartphone market, etc. Yet the market faces some challenges such as, image quality issues, etc.

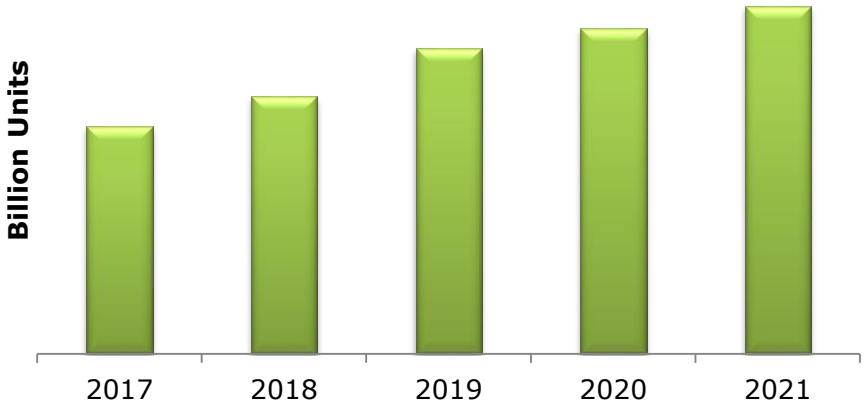
Global CMOS Image Sensor Market Overview

Global CMOS Image Sensor Market by Value; 2017-2021(US$ Billion)



The global CMOS image sensor market by value is anticipated to reach US$...billion by 2021 at a CAGR of …% between 2017-2021. The volume of global CMOS image sensor market is estimated to increase to ….billion units by 2021 from …..billion units in 2017. The geographical distribution of CMOS image sensor market is depicted through four regions. The region with a major share in the global CMOS image sensor market was…. With …% share in 2016.

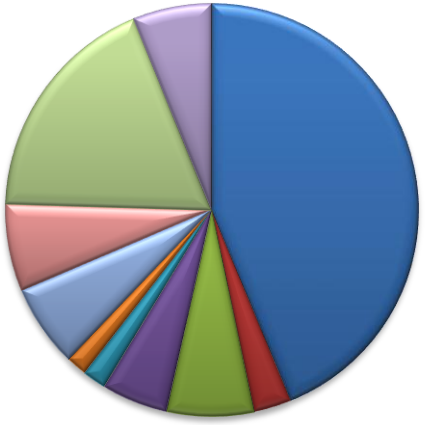
Global CMOS Image Sensor Market by Volume; 2017-2021 (Billion Units)



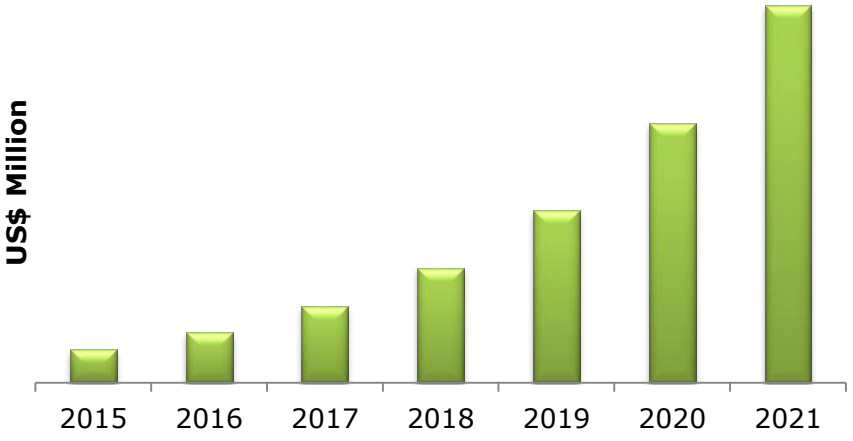
Global CMOS Image Sensor Market by Geographic Distribution; 2016 (Percentage, %)

Global CMOS Image Sensor Market Segments Overview

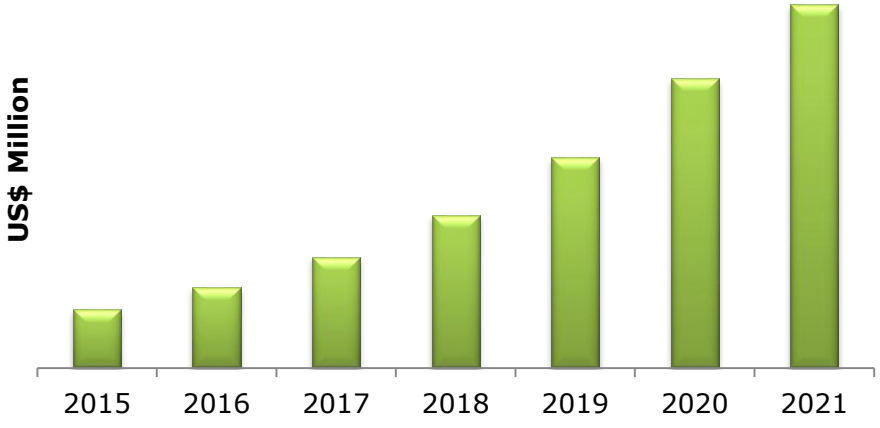
Global CMOS Image Sensor Market by Segments; 2021 (Percentage, %)



Global Automotive CMOS Image Sensor Market by Value; 2015-2021 (US$ Million)



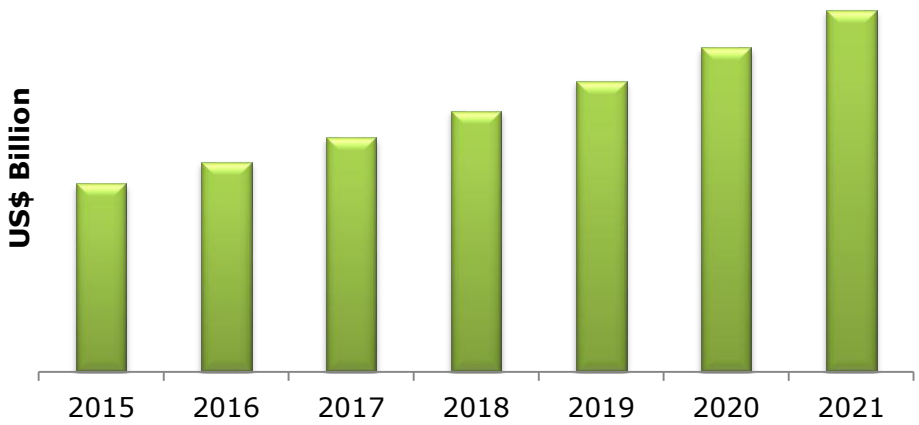
Global Medical & Scientific CMOS Image Sensor Market by Value; 2015-2021 (US$ Million)



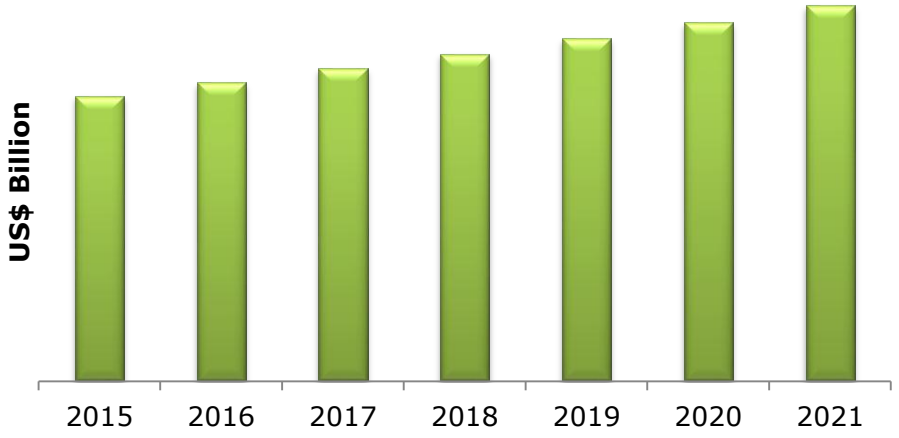
The global CMOS image sensor market could be segregated into different segments. The major share holding segment by 2021 is estimated to be….. With …% share. The global automotive CMOS image sensor market by value is ascertained to rise to US$...million by 2021 at a CAGR of ….% between 2017-2021. The global medical & scientific CMOS image sensor market by value is expected to escalate to US$....million by 2021 at a CAGR of …% between 2017-2021.

Global CMOS Image Sensor Market: Regional Overview

Asia-Pacific CMOS Image Sensor Market by Value; 2015-2021 (US$ Billion)



Europe CMOS Image Sensor Market by Value; 2015-2021 (US$ Billion)



The Asia-Pacific CMOS image sensor market by value is gauged to increase to US$....billion by 2021 from US$...billion in 2017. The market would rise at a CAGR of …% between 2017-2021. The Europe CMOS image sensor market is determined to rise to US$...billion by 2021 from US$...billion in 2017 at a CAGR of …% between 2017-2021. The ….held a dominant share in the Europe CMOS image sensor market. The ……segment held a major share in the North America CMOS image sensor market in 2016.

North America CMOS Image Sensor Market by Segments; 2016 (Percentage, %)