Camera Module 2017
Physical Analyses Overview

24 camera modules for consumer and automotive applications, all from the main OEMs - analyzed and compared!

Smartphone manufacturers are increasingly integrating options and powerful components into their products. 3D and dual-camera modules are now available, offering better-image quality and providing more options, i.e. iris scanners and augmented reality.

The automotive camera module market is also rising steadily and is beginning to take significant market share.

Paralleling Yole Développement’s Camera Module Industry 2017 Market Report, this comparative review was conducted to provide insights into the structure and technology of 19 CMOS camera modules (CCM) released in flagship smartphones from the major brands. In this report, rear and front-facing compact camera modules (including standard (mono), dual, iris scanners, and 3D camera modules) are analyzed and compared in terms of structural overview, module integration, lens number and dimensions, CIS resolution, and pixel size. Indeed, OIS (Optical Image Stabilization) and dual-cameras are the big new trends for mobile camera modules.

Since our last report in 2015, the automotive camera module has changed completely. Manufacturers have rationalized their components in terms of size and number of boards and connectors, expressing their desire to get closer to the mobile camera module’s structure in order to reduce their manufacturing cost. Also, an analysis of five automotive camera modules (three forwards and two surrounds) was realized to highlight the main differences.

Mobile is the main driver for technology, asking for more performance in a constrained footprint. Sensor technology has been transformed by stacked BSI technologies.

This report explains the main players’ technology choices and provides a comparison between competitors.

Title: Camera Module 2017 Physical Analyses Overview
Pages: ~350
Date: November 2017
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COMPLETE TEARDOWN WITH:
- Detailed photos
- Precise measurements
- Module cross-section
- Sensor measurements
- 19 mobile CCMs
- 5 automotive CCMs
### Examples of Manufacturers Covered

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* Dimensions Overview / Image Sensor Overview / Camera Module Cross-Section

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### Related Report

**Camera Module Industry 2017 Market and Technology Report - by Yole Développement**

*New technologies and applications have restructured the Compact Camera Module industry.*

**Key Features of the Report**

- 2016 camera module market share (in %)
- 2016 sensor for CCM market share (in %)
- 2016 lens for CCM market share (in %)
- 2016 autofocus & OIS for CCM market share (in %)
- CCM volume shipment forecast by application 2012-2022
- CCM average selling price forecast by application 2012-2022
- CCM revenue forecast by application 2012-2022

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