

## Global CMOS/CCD Cameras Market: Key Research Findings 2017

### ◆ Research Outline

**Yano Research Institute has conducted a study on the global market of CMOS/CCD cameras and camera application image systems/devices with the following conditions:**

1. Research period: From April to July, 2017
2. Research targets: Camera makers, camera application image system/device makers
3. Research methodologies: Face-to-face interviews by the expert researchers, surveys via telephone/email, and literature research including the database at Yano Research Institute

#### **What is CMOS/CCD Camera Market?**

The CMOS/CCD camera market in this research includes the products of image systems and devices embedded with CMOS/CCD which are image sensors.

### ◆ Key Findings

#### ■ **Global CMOS/CCD Cameras Market Reached 4,050 Million in 2016, Projected to Achieve 5,200 Million by 2020**

The global market size of CMOS/CCD cameras, based on the shipment volume at manufacturers, was estimated as 4,050 million, among which CMOS cameras were estimated to have achieved 4,006 million, occupying 98.9% of the entire market, whereas CCD cameras 44 million.

In association with growth of industrial (non-consumer-use) demand, not to mention that of smartphones and other devices, the market of CMOS and CCD cameras is likely to expand further, with CAGR (Compound Annual Growth Rate) from 2009 to 2020 being expected to attain 12.8% and the shipment volume to achieve 5,220 million by 2020.

#### ■ **Smartphones Occupied 70% of Entire Global Application of CMOS/CCD Cameras in 2016**

The breakdown of 4,050 million of CMOS and CCD cameras globally shipped in 2016 is as follows: 2,856.92 million or 70.5% are for smartphones out of the entire CMOS/CCD-camera demands, followed by 369.25 million for tablet PCs occupying 9.1%, and 293.01 million for feature phones occupying 7.2%. These top 3 applications dominate 86.8% of the entire market.

### ◆ Report Format:

Published report: "Visual Communication: CMOS/CCD-Used Image Systems Market 2017"

Issued on: July 31, 2017

Language: Japanese

Format: 399 pages in A4 format

Price: 150,000 yen (The consumption tax shall additionally be charged for the sales in Japan.)

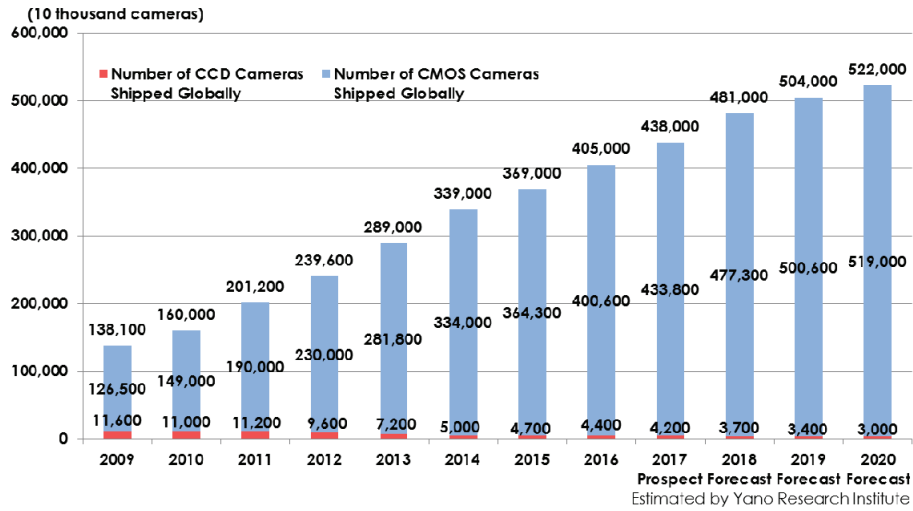
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■ **Figure 1: Transition and Forecast of Size of Global CMOS/CCS Camera Market**



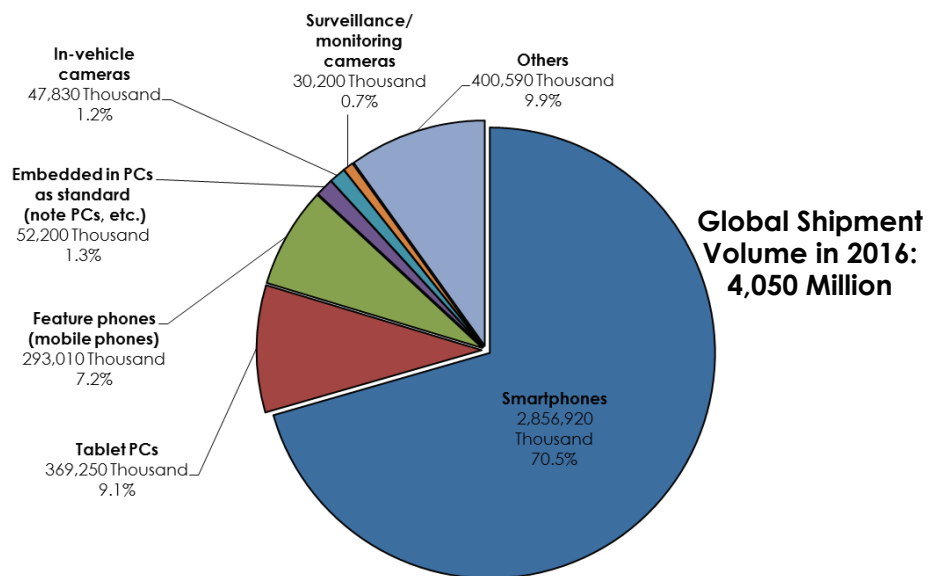
|                                                   | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017 Prospect | 2018 Forecast | 2019 Forecast | 2020 Forecast |
|---------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|---------------|---------------|---------------|
| Number of CMOS Cameras Shipped Globally           | 126,500 | 149,000 | 190,000 | 230,000 | 281,800 | 334,000 | 364,300 | 400,600 | 433,800       | 477,300       | 500,600       | 519,000       |
| Y-o-Y Comparison of CMOS Camera Market            | -       | 117.8%  | 127.5%  | 121.1%  | 122.5%  | 118.5%  | 109.1%  | 110.0%  | 108.3%        | 110.0%        | 104.9%        | 103.7%        |
| Number of CCD Cameras Shipped Globally            | 11,600  | 11,000  | 11,200  | 9,600   | 7,200   | 5,000   | 4,700   | 4,400   | 4,200         | 3,700         | 3,400         | 3,000         |
| Y-o-Y Comparison of CCD Camera Market             | -       | 94.8%   | 101.8%  | 85.7%   | 75.0%   | 69.4%   | 94.0%   | 93.6%   | 95.5%         | 88.1%         | 91.9%         | 88.2%         |
| Total Number of CMOS/CCD Cameras Shipped Globally | 138,100 | 160,000 | 201,200 | 239,600 | 289,000 | 339,000 | 369,000 | 405,000 | 438,000       | 481,000       | 504,000       | 522,000       |
| Y-o-Y Comparison                                  | -       | 115.9%  | 125.8%  | 119.1%  | 120.6%  | 117.3%  | 108.8%  | 109.8%  | 108.1%        | 109.8%        | 104.8%        | 103.6%        |

Estimated by Yano Research Institute

Notes:

1. The market size is based on the shipment volume at manufacturers.
2. The CMOS/CCD camera market in this research includes the products of image systems and devices embedded with CMOS/CCD which are image sensors.

■ **Figure 2: Size of Global CMOS/CCS Camera Market by Demand and Composition Ratio**



Notes:

3. The market size is based on the shipment volume at manufacturers.
4. The CMOS/CCD camera market in this research includes the products of image systems and devices embedded with CMOS/CCD which are image sensors.