Global and China CMOS Camera Module (CCM) Industry Report, 2020-2026

May 2020

ResearchInChina
www.researchinchina.com

STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES

- To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- To help company to succeed in a competitive market, and

METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

Abstract

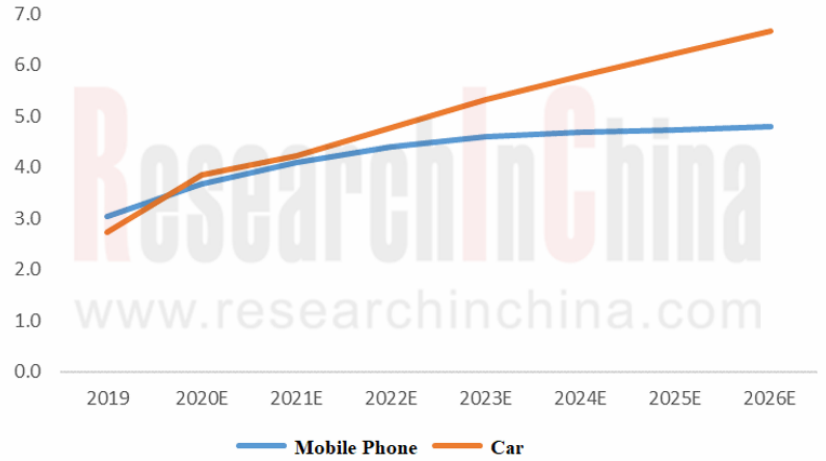
The global CCM market has been ballooning thanks to expeditious penetration of multi-camera phones and advances in automotive ADAS, being worth $22.723 billion with a year-on-year spike of 16.6% in 2019, a figure projected to sustain growth at a compound annual rate of 6.1% between 2019 and 2026.

Nowadays, single-camera, dual-camera and triple-camera mobile phones prevail globally, of which dual rear camera mobile phones share 40%. However, the upcoming triple-camera, four-camera and five-camera mobile phones will undoubtedly beat dual-camera ones, and triple-camera and four-camera phone models will become the mainstream alongside the burgeoning demand for mobile phone camera modules.

The global shipments of automotive camera modules reached 250 million units in 2019. The automotive camera module market is facilitated amid a faster rise in ADAS penetration due to the incentive policies and robust consumer demand. By 2026, the global automotive camera module shipments would expectedly hit 600 million units.

In the next few years, a growing number of camera modules will be mounted onto each mobile phone and every car.

Average Number of Camera Modules Mounted on Each Mobile Phone/Car Worldwide, 2019-2026E



Source: ResearchInChina

The world camera module market is now firmly held by Sunny Optical, O-Film, LG Innoteck, LUXVISIONS, etc. O-Film has become the mainstream supplier of dual-camera and multi-camera modules in the industry by its self-developed AA focusing process, highly automated production lines and mass-production competence, delivering 6.6 billion camera modules and leading the pack worldwide in 2019.

Compared with those for consumer electronics, automotive cameras pose higher requirements for shock resistance, stability, continuous focus, thermal compensation, and resistance to interference of stray light and strong light, thus with a sophisticated process of module assembly and rather high technical barriers. The leading suppliers are Panasonic, Magna, Valeo, Continental, LG INNOTEK, to name a few.

Chinese mobile phone camera module vendors are aggressively expanding the automotive camera module business. Sunny Optical has successfully developed a variety of surround-view, front-view and in-cabin camera modules, some of which have already been spawned. Q Technology has been qualified as a Tier2 supplier of automotive camera modules for many Chinese carmakers. Competition pricks up in automotive camera modules.

Meanwhile, 3D sensing and periscope camera solutions are gaining ground among mobile phone vendors amid consumers' ever higher requirements on mobile phone cameras. In respect of 3D sensing, the multi-scenario use of ToF enjoys a rosy prospect and is more favored by mobile phone vendors.

Here are the highlights of the report:

◆ Global CCM industry (market size, competitive landscape and development trend);
◆ Global CCM market segments (mobile phone CCM, automotive CCM);
◆ CCM technology orientations of mobile phone rear multi-camera, 3D Imaging, periscope cameras);
◆ 22 global CCM-related companies (operation, camera module business, etc.).

Table of contents

Table of contents

Table of contents

Selected Charts

Basic Composition of Typical CMOS Camera Module
Composition of Camera Module
Value Structure of Mobile Phone Camera Module Industry Chain Links
Differences of CMOS Module Technologies
Packaging of CMOS Module by Technology
Global CMOS Camera Module Market Size, 2017-2026E
Capacity and Shipments of Global Major CCM Vendors, 2018-2019
Supply Relationship of CCM Supply Chain
Camera Module Revenue of Global Major Camera Module Vendors, 2018-2019
Camera Module Technology and Application Trends
Average Number of Camera Modules Mounted on Each Mobile Phone/Car Worldwide, 2019-2026E
Global Smartphone Shipments, 2012-2019
Global Smartphone Shipments, 2019-2026E
Market Share of Global Smartphone Vendors, 2018-2019
China's Smartphone Shipments, 2014-2019
Global Demand for Mobile Phone Cameras, 2017-2026E
Global Mobile Phone CCM Market Size, 2017-2026E
Global Mobile Phone CCM Shipment Structure, 2019
Distribution of Samsung's Camera Module Suppliers, 2019
Distribution of Apple's Camera Module Suppliers, 2019
Distribution of Huawei's Camera Module Suppliers, 2019
Distribution of Xiaomi's Camera Module Suppliers, 2019
Distribution of OPPO's Camera Module Suppliers, 2019
Distribution of VIVO's Camera Module Suppliers, 2019
Future Development Path of Mobile Phone CCM

Selected Charts

Global Automobile Output, 2010-2020
Global Automobile Output (by Region), 2010-2019
Top 20 Countries by Automobile Output, 2019
China's Automobile Output, 2011-2020
Installation Arrangement of Automotive Cameras (in KIA K9's Case)
Distribution and Functions of Automotive ADAS Cameras
ADAS-related Requirements in Vehicle Safety Regulations of Major Countries
Autonomy and Camera Use of Various models
Global Automotive Camera Module Shipment, 2017-2026E
Market Share of Major Global Automotive CCM Vendors, 2019
Global Major Automotive Camera Module Suppliers
Global Release Timeline of Mobile Phones with Multiple Rear Cameras
Four-camera Mobile Phones Launched by Main Mobile Phone Vendors, 2019
Global Smartphone Shipment Structure (by Number of Rear Cameras), 2017-2019
Mobile Phone Camera Module Penetration, 2017-2026E
Average Number of Cameras Mounted on Each Mobile Phone Worldwide, 2019-2026E
3D Structured Light Vision Product Structure
3D Structured Light Schematic
ToF Imaging Schematic
Comparison among Three Mainstream 3D Imaging Solutions
Main Mobile Phone Models Packed with TOF
Major Global Companies in 3D Imaging Industry Chain
Global Mobile Phone 3D Imaging Market Size, 2017-2026E
OPPO's Periscope Camera Structure
Chicony Electronics' Revenue and Gross Margin, 2013-2020

Selected Charts

Selected Charts

Selected Charts

Selected Charts

Revenue and Gross Margin of Sunny Optical, 2013-2019
Financial Summary of Sunny Optical, 2013-2019
Business Layout of Sunny Optical
Revenue Breakdown of Sunny Optical by Product Applications, 2017-2019
Revenue of Sunny Optical by Division, 2010-2019
Gross Margin of Sunny Optical by Division, 2013-2019
Shipments of Sunny Optical by Product, 2013-2019
Automotive LENS Shipments and ASP of Sunny Optical by Pixel, 2014-2019
Mobile Phone Lens Shipments and Proportion of Sunny Optical by Pixel, 2016-2019
Mobile Phone Camera Module Shipments and Proportion of Sunny Optical by Pixel, 2016-2019
Main Customers of Sunny Optical
Factories of Sunny Optical
Milestones of Cammsys
Organizational Structure of CAMMSYS
Development Strategy of CAMMSYS in 2020
Revenue and Operating Margin of CAMMSYS, 2013-2020
Revenue of CAMMSYS from Main Products, 2015-2020
Production and R&D Layout of CAMMSYS
Camera Module Product Line of CAMMSYS
Camera Module Capacity, Output and Capacity Utilization of CAMMSYS, 2015-2020
Profile of SUNYANG DNT
Organizational Structure of Powerlogics
Revenue and Operating Income of Powerlogics, 2013-2020
Revenue of Powerlogics by Product, 2017-2020
Revenue of Powerlogics by Region, 2017-2020

Selected Charts

Capacity of Powerlogics by Product, 2016-2020
Output of Powerlogics by Product, 2016-2020
CCM Component ASP of Powerlogics, 2017-2020
Main Camera Modules of Powerlogics
Global Business Layout of Powerlogics
Profile of POWERLOGICS (Tianjin)
MCNEX's Main Products for Mobile Phones
MCNEX's Main Products for Automobile
Revenue and Operating Profit of MCNEX, 2013-2020
Revenue of MCNEX by Business, 2016-2020
Revenue of MCNEX by Business/Region, 2016-2020
Average Selling Price of MCNEX's Camera Modules, 2015-2018
Average Purchase Price of Major Materials for MCNEX's Camera Modules, 2015-2020
Camera Module Capacity of MCNEX, 2016-2020
Camera Module Output of MCNEX, 2016-2020
Revenue of MCNEX by Customer, 2015-2020
MCNEX's Capacity by Region
Profile of MCNEX (Shanghai)
Organizational Structure of Global Optics
Global Optics Business Structure
Profile of Shenzhen Shine Tech
Main Customers of Shine Tech
Automotive Lens of LCE-Optics
LCE-Optics' Revenue and YoY, 2015-2020
Main Customers of LCE-Optics

Selected Charts

Revenue of ON Semiconductor by Market, 2020
Status of ON Semiconductor in Automotive CMOS Market
ADAS Image Sensors of ON Semiconductor
Automotive Camera System Architecture and CMOS Product System of ON Semiconductor
Automotive CMOS Products of ON Semiconductor
Sony's Key Financial Indicators, FY2018-FY2019
Revenue of Sony by Business, FY2018-FY2019
Sony's Technical Superiority in CMOS
Sony's Camera Module System
History of Sony's Automotive CMOS
Sony's Automotive CMOS Pedigree
Sony's Automotive CMOS Products
Sony's Latest Visual CMOS Products
Parameters of OmniVision's Image Sensors
Classification of OmniVision's Image Sensors
Revenue and Net Income of PixArt, 2018-2020
Revenue of PixArt by Product, 2018-2020
Revenue of PixArt by Region, 2018-2020
Image Sensors of PixArt CMOS
Image Sensor Chip PAC7366 of PixArt CMOS
PixArt's Automotive Vision Application System
PixArt's Automotive Gesture Control IC

ResearchInChina

The Vertical Portal for China Business Intelligence

How to Buy

You can place your order in the following alternative ways:

1.Order online at www.researchinchina.com

2.Fax order sheet to us at fax number:+86 10 82601570

3. Email your order to: report@researchinchina.com

4. Phone us at +86 10 82600828

Party A:			
Name:			
Address:			
Contact Person:		Tel	
E-mail:		Fax	

Party B:			
Name:	Beijing Waterwood Technologies Co., Ltd (ResearchInChina)		
Address:	Room 2-626, 6th Floor, No.1, Shanyuan Street, Haidian District, Beijing, 100080		
Contact Person:	Liao Yan	Phone:	86-10-82600828
E-mail:	report@researchinchina.com	Fax:	86-10-82601570
Bank details:	Beneficial Name: Beijing Waterwood Technologies Co., Ltd Bank Name: Bank of Communications, Beijing Branch Bank Address: NO.1 jinxiyuan shijicheng,Landianchang,Haidian District,Beijing Bank Account No #: 110060668012015061217 Routing No # : 332906 Bank SWIFT Code: COMMCNSHBJG		

Title	Format	Cost
Total		

Choose type of format

PDF (Single user license) ……..3,000 USD

Hard copy …… 3,000 USD

PDF (Enterprisewide license)…..... 4,500 USD

※ Reports will be dispatched immediately once full payment has been received. Payment may be made by wire transfer or credit card via PayPal.

ResearchInChina

www.researchinchina.com

About ResearchInChina

ResearchInChina (www.researchinchina.com) is a leading independent provider of China business intelligence. Our research is designed to meet the diverse planning and information needs of businesses, institutions, and professional investors worldwide. Our services are used in a variety of ways, including strategic planning, product and sales forecasting, risk and sensitivity management, and as investment research.

Our Major Activities

- ***Multi-users market reports***
- ***Database-RICDB***
- ***Custom Research***
- ***Company Search***

RICDB (http://www.researchinchina.com/data/database.html), is a visible financial data base presented by map and graph covering global and China macroeconomic data, industry data, and company data. It has included nearly 500,000 indices (based on time series), and is continuing to update and increase. The most significant feature of this base is that the vast majority of indices (about 400,000) can be displayed in map.

After purchase of our report, you will be automatically granted to enjoy 2 weeks trial service of RICDB for free.

After trial, you can decide to become our formal member or not. We will try our best to meet your demand. For more information, please find at www.researchinchina.com

For any problems, please contact our service team at:

Room 2-626, 6th Floor, No.1, Shanyuan Street, Haidian District, Beijing, 100080
Phone: +86 10 82600828 ● Fax: +86 10 82601570 ● www.researchinchina.com ● report@researchinchina.com