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# Image Sensor Intelligence Service

## Part of Semiconductor Components Service Area Package

Image sensor is one of the most important building block in the imaging system and have been getting increasing attention from the market. After years of development in technology and manufacturing process, CMOS images sensor is now used more widely due to its simple fabrication technique and performance compared to the CCD image sensor.

Omdia provides comprehensive market analysis and database capturing historical and forecasts on the shipment and revenue for image sensors in the worldwide and China market. The coverage also include camera module supply chain information to provide a broader view of the industry landscape.

The Omdia logo consists of a stylized 'O' symbol followed by the letters 'MDIA' in a bold, sans-serif font. The 'O' is a thick, curved line that does not fully close, resembling a partial circle or a stylized '0'.

OMDIA



**Image sensor is one of the main building block in an imaging system. Over the last decade, image sensor has enjoyed great commercial success since the introduction of smartphones. In the next decade, automotive will take place of smartphone to drive the growth of image sensor industry. New opportunities are emerging such as IoT, medical and machine vision, driving continuous innovation in image sensos as well.**

**Carol Yang**

*Senior Research Analyst*

# Image Sensor Intelligence Service

*Part of the Semiconductor Components Service Area Package*

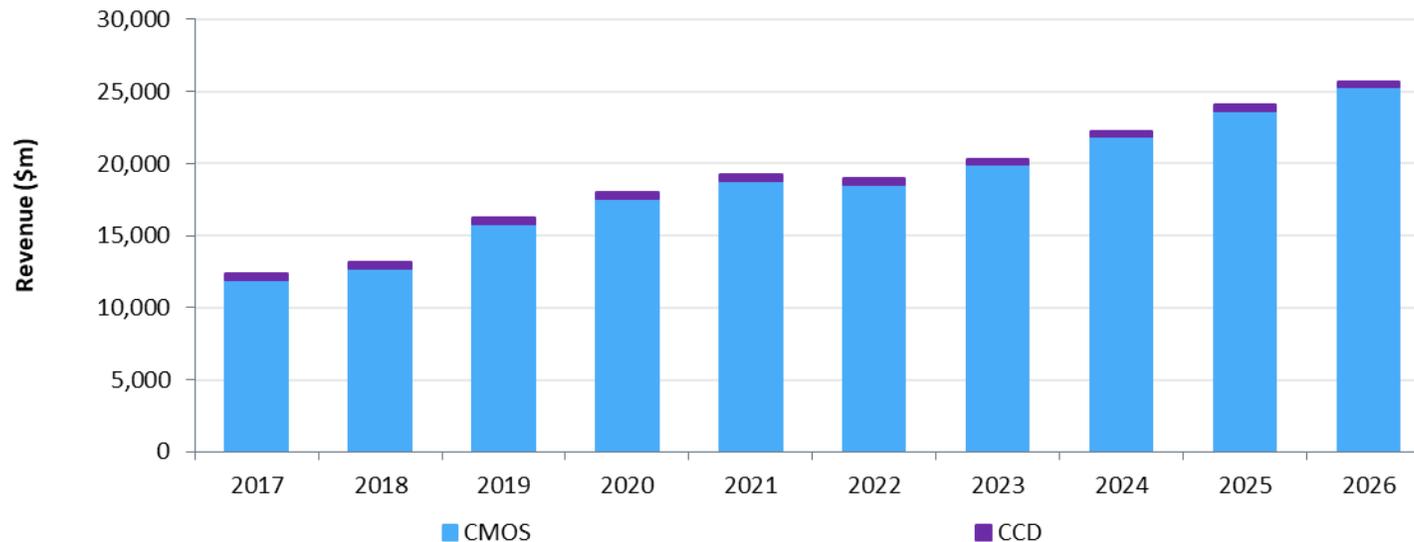
## HOW OMDIA HELPS YOU

- Offer quantitative analysis on image sensors by resolution, process node, application. Provide roadmap and technology transition of image sensors
- Competitive rankings of suppliers by application
- Provide five years of market forecasts and offer in-depth analysis covering key application markets
- Detailed picture of the supply landscape

## KEY QUESTIONS ADDRESSED

- What is the market size of the image sensors in different application? What is the split between CIS and CCD? What is the market size of the image sensors in different resolution?
- What are the technology trend for image sensors in different application? Who are the market leaders in various application? What competitive strategies do the market leaders take?
- What is the supply chain and ecosystem like?
- What are the emerging technologies and applications in image sensor market?

Global image sensor revenue, 2017–26



# Image Sensor: Our Expert Analysts



**Hui He**  
Director  
China semiconductor  
market



**Carol Yang**  
Senior Research Analyst  
Image sensor



**Lingling Peng**  
Senior Research Analyst  
Battery, PCB and  
camera module

# Image Sensor Intelligence Service: Deliverables



## MARKET TRACKERS

-- Half year --

Image Sensor & Camera Module Market Tracker (XLS, PPT)



## REPORT

-- Annual --

- Image Sensor for Consumer & Mobile Report (XLS, PPT)
- Automotive CIS & Camera Module Report (XLS, PPT)



## ANALYST INSIGHTS

-- Ongoing --

Client-exclusive commentary on developments throughout the year.



## ANALYST ACCESS

-- Ongoing --

For prompt responses to urgent and unique questions

# Image Sensor Intelligence Service: Market Tracker

## Image Sensor & Camera Module Market Tracker

A comprehensive worldwide pivot database and two reports: a worldwide historical shipment analysis report focusing on recent results and implications, as well as a 5 year forecast report detailing the updated major home appliance market outlook

### DETAILS

#### Frequency

- Semi annually updated

#### Deliverable:

- Database (XLS)
- Report with analysis (PPT)

#### Measures

- Image sensor revenue by device type
- Image sensor revenue by application type
- Image sensor units by device type
- Image sensor units by application type

#### Regions:

- Global

### COVERAGE

#### Timeline:

- 5-year annual forecast (2022 – 2026)
- Base historic years (2017 – 2021)

#### Device Types:

- CMOS Image Sensor (CIS)
- Charge-coupled devices (CCD)
- Camera Module

#### Application:

- Smartphone
- Consumer electronics
- Automotive
- Security surveillance

### APPLICABLE TO

#### Industry Segments:

- Image sensor suppliers and foundries
- Smartphone/automotive OEMs and supply chain
- Consumer electronics device designers
- Related component suppliers
- Camera module suppliers
- Business consulting and financial firms

#### Persona/Function:

- Procurement
- Product development
- Business development
- Strategic planning
- Product marketing
- Business marketing

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## Image Sensor & Camera Module Market Tracker

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### TABLE OF CONTENTS

#### Technology:

- Global image sensor by technology
- Global image sensor roadmap

#### Market:

- Global image sensor revenue by app
- Global image sensor shipment by app
- Global image sensor revenue by Top Players

#### Application:

- Smartphone camera number
- Smartphone camera resolution
- Feature phone camera number
- Smartphone optical FP
- Mobile phone camera CIS share
- Smartphone OEM & partners
- Other CE products CIS shipment
- Vehicle production
- L0-L5 penetration
- Automotive CIS resolution
- Automotive CIS location

- Average CIS on vehicle
- Automotive CIS share
- Automotive OEM & partners
- Surveillance CIS resolution
- Surveillance CIS share
- Surveillance OEM & partners

#### Supply:

- Global CIS production ranking
- Global CIS fabless & IDM
- Foundry & CIS players
- Foundry 200mm wafer price
- Foundry 300mm wafer price
- CCM & Lens capacity

# Image Sensor IS: Reports

## Image Sensor for Consumer & Mobile Report

A comprehensive worldwide pivot database and report: a 5-year forecast detailing major consumer electronics applications, as well as their supply chain status and the future market outlook

### DETAILS

**Frequency:** Annual

#### Regions

- Global

### Coverage

#### Major applications:

- Smartphone
- Feature phone
- Tablet
- Digital camera
- Laptop
- Video game
- Consumer drones
- Robot vacuum
- Home video camera
- Smart lock
- Wearable camera
- Consumer VR headset

## Automotive CIS & Camera Module Report

A database and report: a 5-year forecast of automotive camera image sensor shipment and revenue, plus analysis on other important sensors such as LiDAR, radar, ultrasonic, as well as major automotive OEM supply chain overview

### DETAILS

**Frequency:** Annual

#### Regions

- Global

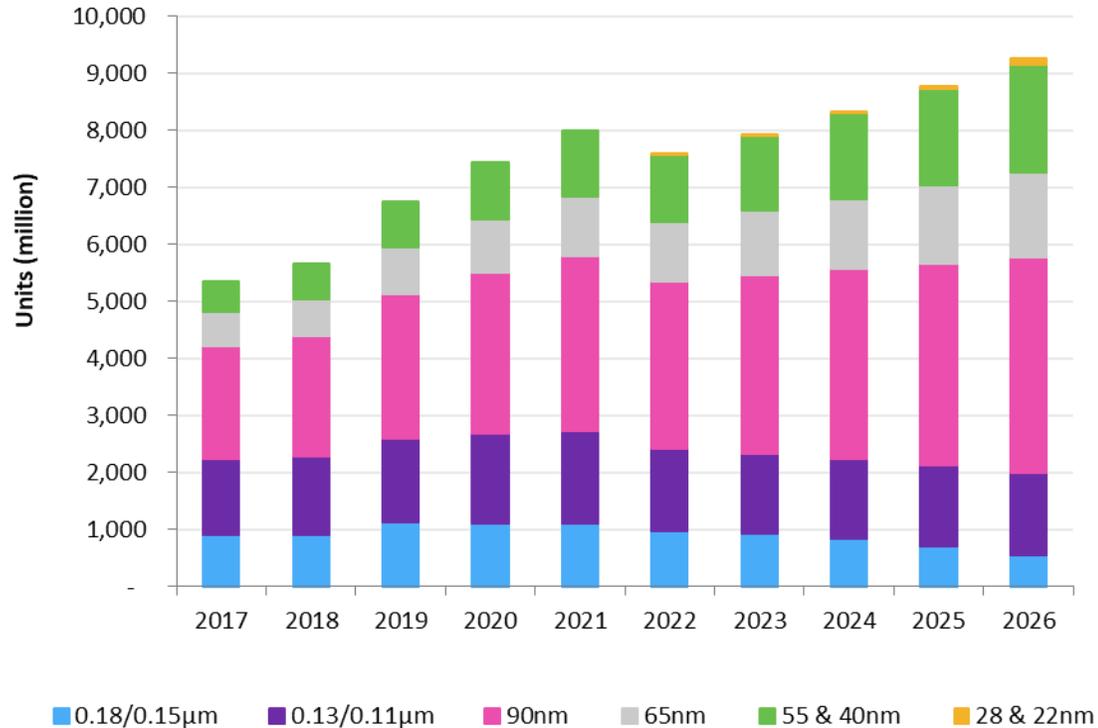
### Coverage

#### Forecast and analysis on:

- Camera resolution
- Camera location
- Front view camera
- Rear view camera
- Surround view camera
- Side view camera
- In-cabin camera
- LiDAR
- Ultrasonic
- Radar
- IR camera
- 4D imaging radar

# Sample Charts & Graphs

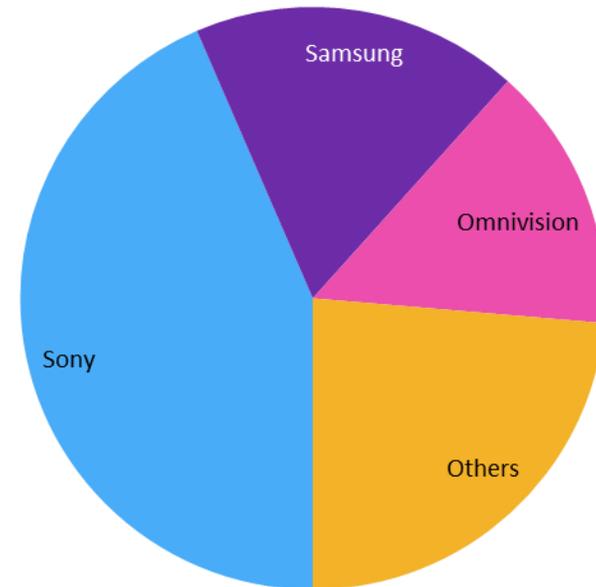
CMOS image sensors process node roadmap, 2017–26



Source: Omdia

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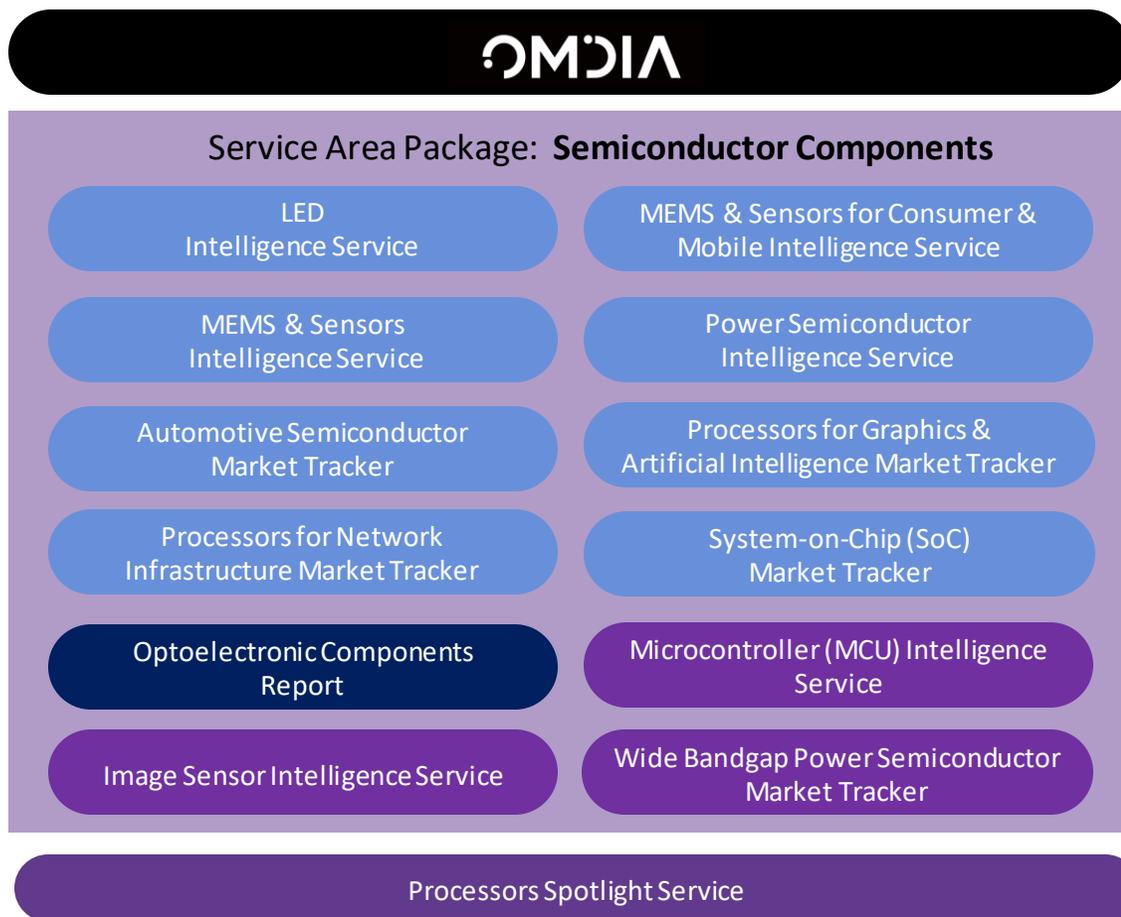
Top image sensor suppliers' market share, 2021



Source: Omdia

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# Related Content: Semiconductor Components Service Area Coverage



## About Omdia's Semiconductor Components Research

Omdia's leading semiconductor components research is provided by a highly experienced team of analysts. Many are industry veterans with deep technical background as well as hands-on market and product experience in their coverage area. The key component areas of processors and microcontrollers, MEMS and Sensors, Power discretes and modules, Power ICs, LED and Optical components are covered across numerous device categories and applications.

Their expertise is augmented and supported by the wide array of end equipment application and demand reporting, semiconductor manufacturing tracking and forecasting and spotlight services such as the semiconductor competitive landscape tool, the application market forecast tracker, the China semiconductor intelligence service and others.



# Our “Ask an Analyst” Service Provides Best in Class Customer Support

Whether you need guidance to navigate the service, information regarding our methodologies or you want to better understand a data trend, Omdia’s support team is here to help.

## Draw on our expertise

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**Shelley Hunter**  
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# Get in touch!

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