

Global High-pixel Automotive-grade CIS Market Growth 2026-2032

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Abstracts

The global High-pixel Automotive-grade CIS market size is predicted to grow from US\$ 852 million in 2025 to US\$ 1427 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

In 2025, global High-pixel Automotive-grade CIS production reached approximately 280.97 million Units, with an average global market price of around US\$ 3.1 per unit.

High-pixel Automotive-grade CIS (CMOS Image Sensor) is a specialized automotive imaging component, defined as automotive CIS with a pixel resolution of 8 megapixels (MP) or higher (the mainstream of basic automotive CIS is 2MP-5MP). It is developed for the high-precision environmental perception needs of mid-to-high-level autonomous driving (L2 to L4 level), and is optimized for the harsh working environment and functional safety requirements of vehicles.

The CMOS image sensor industry chain presents a vertical hierarchical structure with clear division of labor, spanning from upstream core material and equipment supply, midstream sensor design, manufacturing and packaging, to downstream application terminal integration. The industry has strong technical barriers, high concentration of leading enterprises, and close collaborative links between upstream and downstream links. The upstream segment provides the essential materials, equipment and intellectual property (IP) required for CIS design and manufacturing, and is the foundation of the entire industry chain. The market is dominated by a small number of international enterprises. The midstream is the core value link of the industry chain, covering three key links: chip design, wafer fabrication, and packaging and testing. The industry is divided into two business models: IDM (Integrated Device Manufacturer) and Fabless + Foundry + OSAT. Downstream applications cover consumer electronics,

automotive electronics, industrial detection, security monitoring, medical imaging and other fields. The demand of different scenarios drives the iteration of CIS technology, and the B2B field has become the main growth engine in recent years. The iteration of downstream application demand (e.g., automotive high dynamic range, industrial global shutter) drives the R&D of midstream design and upstream material and equipment technologies, forming a positive feedback loop.

LP Information, Inc. (LPI) ' newest research report, the “High-pixel Automotive-grade CIS Industry Forecast” looks at past sales and reviews total world High-pixel Automotive-grade CIS sales in 2025, providing a comprehensive analysis by region and market sector of projected High-pixel Automotive-grade CIS sales for 2026 through 2032. With High-pixel Automotive-grade CIS sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-pixel Automotive-grade CIS industry.

This Insight Report provides a comprehensive analysis of the global High-pixel Automotive-grade CIS landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-pixel Automotive-grade CIS portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-pixel Automotive-grade CIS market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-pixel Automotive-grade CIS and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-pixel Automotive-grade CIS.

This report presents a comprehensive overview, market shares, and growth opportunities of High-pixel Automotive-grade CIS market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mid-high Pixel CIS (2-5M)

High-pixel CIS (5-8M)

Segmentation by the Installation Position and Function of the Vehicle:

Front-view CIS

Surround-view CIS

Rear-view CIS

In-cabin CIS

Side-view CIS

Segmentation by Photosensitive Structure:

Front Side Illuminated

Back Side Illuminated

Stacked CMOS Image Sensor

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SONY

Samsung

OmniVision

STMicroelectronics

On Semi

GalaxyCore

Panasonic

Smartsens Technology

Canon

SOI

PixelPlus

BYD

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-pixel Automotive-grade CIS market?

What factors are driving High-pixel Automotive-grade CIS market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-pixel Automotive-grade CIS market opportunities vary by end market size?

How does High-pixel Automotive-grade CIS break out by Type, by Application?

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