

Global AI Vision Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Vision Chip market size was valued at US\$ 12927 million in 2025 and is forecast to a readjusted size of US\$ 35238 million by 2032 with a CAGR of 15.2% during review period.

AI vision chips are, at their core, semiconductor devices designed to perform computations such as image acquisition, image preprocessing, feature extraction, object detection/segmentation/recognition, and temporal video analysis as much as possible at the edge. Typical device forms include:

Vision SoC: Integrates ISP + codec + NPU, suitable for IPC, smart cameras, robots, and automotive vision

Vision NPU / AI Accelerator: External accelerators responsible for CNN, Transformer, and multimodal lightweight inference

Automotive Vision SoC: Emphasizes functional safety, low latency, multi-camera input, and automotive-grade certification

Intelligent Vision Sensor: Performs AI preprocessing and recognition directly within the image sensor

Global sales of AI vision chips are projected to reach 947.44 million units in 2025, with an average price of \$13.26 per unit.

Development Trends

Evolving from ?image processing chips? to ?vision understanding chips?

The industry has evolved from traditional ISP + codec + basic CV to detection, segmentation, tracking, behavior understanding, lightweight inference, and even edge-side GenAI/reasoning. Ambarella?s consecutive releases of edge GenAI and CV7 solutions in 2025?2026 have positioned ?multi-channel video + local inference + low power consumption? as core selling points; Synaptics also launched multimodal GenAI processors for IoT edge in 2025. This indicates that AI vision chips are shifting from merely ?seeing? to ?understanding + inferring.?

Product Form Factors Extend from SoCs to ?AI-Integrated Sensors?

Sony?s IMX500 has directly integrated AI processing capabilities into smart vision sensors, with the official goal of simplifying the entire edge AI process from development to deployment. This represents a clear direction: AI does not necessarily have to run solely on the main SoC; some pre-processing, recognition, and even result filtering will be shifted to the sensor side, thereby reducing bandwidth, power consumption, and system BOM.

Multimodal and multi-sensor fusion become standard features in high-end products

The new generation of vision chips is no longer limited to a single camera or a single model; instead, they emphasize multi-stream video, multi-sensor perception, and the fusion of vision with audio, radar, and IMU. Ambarella?s CV7 explicitly focuses on multi-video streams and multi-sensor perception; automotive platforms like Mobileye?s EyeQ have already positioned visual computing within the continuum from ADAS to advanced autonomous driving, emphasizing scalability, low power consumption, and real-time responsiveness.

Automotive, industrial, and robotics have become the three fastest-growing application sectors.

Mobileye clearly positions EyeQ for automotive-grade vision computing spanning ADAS to full autonomy; NXP also clearly outlines its key edge AI applications: industrial robotics and intelligent vehicles. Meanwhile, IFR data shows that 401,665 new industrial robots installed in global factories in 2024 were located in Asia, with Asia accounting for 74% of global new installations and the top five markets accounting for 80% of the global total. This indicates that robotics and automation are continuing to drive demand for local visual computing power.

This report is a detailed and comprehensive analysis for global AI Vision Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Vision Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Vision Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Vision Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Vision Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI Vision Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Vision Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies

covered as a part of this study include Qualcomm^{US}, NVIDIA^{US}, Horizon Robotics^{CN}, Sony Semiconductor Solutions^{JP}, NXP Semiconductors^{NL}, Renesas Electronics^{JP}, Ambarella^{US}, Rockchip Electronics^{CN}, AMD^{US}, onsemi^{US}, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AI Vision Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Low computing power (10 TOPS)

Market segment by Technical Architecture

Direct Sales

Distribution

Market segment by Sales Channels

Market segment by Application

Automotive ADAS / Autonomous Driving

Smart Security / IPC

Industrial Machine Vision

Robotics / Drones / AMR

Retail / Logistics / Smart Cities

Consumer Visual Devices

Medical / Professional Equipment

Other

Major players covered

Qualcomm?US?

NVIDIA?US?

Horizon Robotics?CN?

Sony Semiconductor Solutions?JP?

NXP Semiconductors?NL?

Renesas Electronics?JP?

Ambarella?US?

Rockchip Electronics?CN?

AMD?US?

onsemi?US?

Synaptics?US?

SigmaStar?CN?

Texas Instruments?US?

STMicroelectronics?NL?

Axera Semiconductor?CN?

Socionext?JP?

Axelera AI?NL?

Black Sesame International Holding Limited?CN?

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI Vision Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Vision Chip, with price, sales quantity, revenue, and global market share of AI Vision Chip from 2021 to 2026.

Chapter 3, the AI Vision Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Vision Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI Vision Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Vision Chip.

Chapter 14 and 15, to describe AI Vision Chip sales channel, distributors, customers, research findings and conclusion.

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