

Global Vision AI Chips Market Growth 2025-2031

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Abstracts

The global Vision AI Chips market size is predicted to grow from US\$ 886 million in 2025 to US\$ 1794 million in 2031; it is expected to grow at a CAGR of 12.5% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Vision AI chips are artificial intelligence processors specially designed for image processing and visual tasks, and are widely used in scenarios such as smart security, autonomous driving, industrial inspection, smart phones, robots, and augmented reality. The chip integrates a dedicated neural network accelerator, image signal processor, video codec module, and high-performance CPU/GPU architecture to perform real-time analysis and processing of image data collected by the camera, and realize complex visual tasks such as object recognition, face recognition, behavior analysis, target tracking, and scene understanding.

United States market for Vision AI Chips is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Vision AI Chips is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Vision AI Chips is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Vision AI Chips players cover Sony, Ambarella, Huawei HiSilicon, Nextchip, Goke Microelectronics, etc. In terms of revenue, the global two largest companies

occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Vision AI Chips Industry Forecast” looks at past sales and reviews total world Vision AI Chips sales in 2024, providing a comprehensive analysis by region and market sector of projected Vision AI Chips sales for 2025 through 2031. With Vision AI Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vision AI Chips industry.

This Insight Report provides a comprehensive analysis of the global Vision AI Chips 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 Vision AI Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vision AI Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vision AI Chips 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 Vision AI Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Vision AI Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Below 5TOPs

5TOPs-10TOPs

Above 10TOPs

Segmentation by Application:

Smart Network Camera

Smart Doorbells

Smart Screen Camera

In-vehicle Vision Products

Others

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

Ambarella

Huawei HiSilicon

Nextchip

Goke Microelectronics

Rockchip Electronics

Axera Semiconductor

Shanghai TaskOrientedAI

Vimicro Technology Corporation

Shanghai Visinex Technology

Shanghai Timesintelli

Shanghai NextVPU

Anhui Eyevolution Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vision AI Chips market?

What factors are driving Vision AI Chips market growth, globally and by region?

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

How do Vision AI Chips market opportunities vary by end market size?

How does Vision AI Chips break out by Type, by Application?

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