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Global AI Vision System Chips Market Growth 2025-2031

https://marketpublishers.com/r/G0D6C826D8BEEN.html
Date: February 2025
Pages: 113
Price: US$ 3,660.00 (Single User License)
ID: G0D6C826D8BEEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global AI Vision System Chips market size is predicted to grow from US$ 875 million in 2025 to US$ 1726 million in 2031; it is expected to grow at a CAGR of 12.0% from 2025 to 2031.

AI vision system chips are special integrated circuits that integrate advanced image processing and artificial intelligence algorithms and are widely used in smart phones, security monitoring, self-driving cars, robots, smart home devices, etc. These chips not only have the functions of traditional image signal processors, such as automatic exposure, white balance and noise reduction, but also integrate deep learning accelerators to efficiently perform complex image recognition and intelligent analysis tasks at the hardware level.

United States market for AI Vision System 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 AI Vision System 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 AI Vision System 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 AI Vision System 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.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of AI Vision System 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

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Smart Doorbell

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

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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

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Shanghai TaskOrientedAI

Vimicro Technology Corporation

Shanghai Visinex Technology

Shanghai Timesintelli

Shanghai NextVPU

Key Questions Addressed in this Report

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

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

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

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

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

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