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Global Edge Intelligence Vision Chips Market Growth 2025-2031

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Abstracts

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The global Edge Intelligence Vision Chips market size is predicted to grow from US$ 710 million in 2025 to US$ 1563 million in 2031; it is expected to grow at a CAGR of 14.0% from 2025 to 2031.

Edge intelligent vision chips are highly integrated application-specific integrated circuits designed for efficient image and video analysis on the device side and are widely used in smart cameras, self-driving cars, robots, smart homes and other fields. This type of chip integrates functional modules such as image signal processors, neural network accelerators and central processing units, and can process complex visual tasks locally in real time, reducing dependence on cloud computing. Through the built-in dedicated neural network accelerator, it can quickly execute algorithms such as convolutional neural networks to achieve functions such as target detection, face recognition, and behavior analysis.

United States market for Edge Intelligence Vision 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 Edge Intelligence Vision 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 Edge Intelligence Vision 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 Edge Intelligence Vision Chips players cover Ambarella, Nextchip, Huawei

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HiSilicon, Shanghai TaskOrientedAI, Zhejiang ZenTech, 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 “Edge Intelligence Vision Chips Industry Forecast” looks at past sales and reviews total world Edge Intelligence Vision Chips sales in 2024, providing a comprehensive analysis by region and market sector of projected Edge Intelligence Vision Chips sales for 2025 through 2031. With Edge Intelligence Vision Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Edge Intelligence Vision Chips industry.

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

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

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

Segmentation by Type:

Below 10TOPs

10TOPs-20TOPs

Above 20TOPs

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Segmentation by Application:

- Smart Network Camera
- Security Surveillance
- 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

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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.

Ambarella

Nextchip

Huawei HiSilicon

Shanghai TaskOrientedAI

Zhejiang ZenTech

Goke Microelectronics

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Zhuhai Eeasy Tech

Zhuhai Allwinner Technology

Shenzhen Intellifusion Technology

SynSense

Key Questions Addressed in this Report

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

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

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

How do Edge Intelligence Vision Chips market opportunities vary by end market size?

How does Edge Intelligence Vision Chips break out by Type, by Application?

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