

Global Smart Security AI Vision Chips Market Growth 2026-2032

<https://marketpublishers.com/r/GDD2A22D7E77EN.html>

Date: May 2026

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: GDD2A22D7E77EN

Abstracts

The global Smart Security AI Vision Chips market size is predicted to grow from US\$ 2654 million in 2025 to US\$ 6328 million in 2032; it is expected to grow at a CAGR of 13.1% from 2026 to 2032.

Smart Security AI Vision Chips are, at their core, chips designed to perform image capture, ISP processing, video compression and encoding, object detection/classification/tracking, event triggering, low-light enhancement, and privacy filtering as much as possible within the camera or at the local recording/analysis end.

Global Smart Security AI Vision Chip Market Trends in 2025.

Development Trends

AI Shifts from Backend Analysis to Frontend Understanding?

Security AI is shifting from recognition on the NVR/platform side to on-device processing on IP cameras (IPC) for the front-end screening of human figures, vehicles, packages, pets, perimeter breaches, and abnormal behavior. HiSilicon's IPC/NVR SoCs, Ambarella's edge AI security SoCs, and Fullhan's smart network camera SoCs are all reinforcing this trend.

Low-Power Doorbells, Battery-Powered Cameras, and AOVs Are the Clearest Growth Areas

Ingenic's T41 is explicitly designed for battery-powered cameras; its Atlas platform emphasizes always-on wireless cameras with 2-6 months of standby time; Allwinner's

V851S is also explicitly designed for professional smart network cameras. As the security sector expands from ?wired professional surveillance? to ?low-power smart home monitoring,? demand for low-power AI SoCs is rising.

AI ISP, night vision, and low-light full-color capabilities are more critical than raw TOPS

In security scenarios, what truly determines a chip?s value is typically not peak computing power, but low-light image quality, dynamic range, noise control, low bitrate, and all-weather stability. Ambarella, Fullhan, Goke, Axera, and onsemi all highlight low-light performance, HDR, AI ISP, and low bitrate/low power consumption as core selling points in their public materials.

4K/8MP, multi-camera, multi-stream video, and lightweight multimodal capabilities are advancing in tandem

Products such as the Fullhan FH8858V500, Rockchip RV1126B, Goke GK7606V1, Axera AX650N/AX8850, and other products are all advancing toward higher resolutions, multi-camera inputs, more video channels, and enhanced local analysis capabilities. The competitive focus of next-generation products is shifting from ?whether AI is possible? to ?whether AI can operate stably under multi-channel video conditions.?

Industry growth outpaces traditional security but lags behind the broader AI video systems market.

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

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

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

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

Segmentation by Type:

IPC SoC

Battery / AOV SoC

NVR SoC

Other

Segmentation by Computing Power:

0.5?1.0 TOPS

1.5?2.5 TOPS

3?6 TOPS

16?32 TOPS

Segmentation by Sales Channels:

Direct Sales

Distribution

Segmentation by Application:

Urban Security

Retail

Home Security

Industrial

Other

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.

HiSilicon?CN?

Ambarella?US?

Fullhan?CN?

Rockchip?CN?

Ingenic?CN?

Sony Semiconductor Solutions?JP?

Goke?CN?

Allwinner?CN?

Renesas Electronics?JP?

Synaptics?US?

NXP Semiconductors?NL?

Axera?CN?

Socionext?JP?

onsemi?US?

STMicroelectronics?NL?

Key Questions Addressed in this Report

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

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

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

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

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

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