

Global 4K AI Vision Processing SoC Market Growth 2026-2032

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Abstracts

The global 4K AI Vision Processing SoC market size is predicted to grow from US\$ 4089 million in 2025 to US\$ 10464 million in 2032; it is expected to grow at a CAGR of 14.4% from 2026 to 2032.

In 2025, global sales of 4K AI Vision Processing SoC reached approximately 290 million units, with an average market price of about USD 14.41 unit, an annual production capacity of roughly 350 million units, and an industry-average gross margin of approximately 40%.

A 4K AI Vision Processing SoC refers to a system-on-chip designed for real-time 4K-class image or video acquisition, image signal processing, local AI inference and computer vision analytics. It typically integrates an image signal processor, video encoder and decoder, neural processing unit, computer vision accelerator, CPU/DSP subsystem, memory controller, security engine and multi-camera input interfaces. Its core role is not limited to 4K imaging, HDR/WDR processing, low-light enhancement, distortion correction, image enhancement and H.264/H.265/AV1 compression; it also enables on-device AI workloads such as human and vehicle detection, face recognition, driver monitoring, lane and object perception, industrial defect inspection, robotic perception and smart camera analytics. This study focuses on 4K AI vision processing chips used in smart security cameras, IP cameras, dashcams, ADAS front and surround-view cameras, DMS/OMS systems, robotics, drones, industrial vision, conferencing cameras and edge AI vision devices.

United States market for 4K AI Vision Processing SoC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 4K AI Vision Processing SoC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 4K AI Vision Processing SoC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 4K AI Vision Processing SoC players cover Mobileye Global Inc., Qualcomm Technologies, Ambarella, Renesas Electronics, Horizon Robotics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "4K AI Vision Processing SoC Industry Forecast" looks at past sales and reviews total world 4K AI Vision Processing SoC sales in 2025, providing a comprehensive analysis by region and market sector of projected 4K AI Vision Processing SoC sales for 2026 through 2032. With 4K AI Vision Processing SoC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 4K AI Vision Processing SoC industry.

This Insight Report provides a comprehensive analysis of the global 4K AI Vision Processing SoC 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 4K AI Vision Processing SoC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 4K AI Vision Processing SoC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 4K AI Vision Processing SoC 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 4K AI Vision Processing SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of 4K AI Vision Processing SoC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single 4K Stream

Multi-4K Stream

Segmentation by Function:

AI Camera SoC

AI ISP SoC

Segmentation by Application:

Security and Surveillance

Automotive Vision

Robotics and Drones

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.

Mobileye Global Inc.

Qualcomm Technologies

Ambarella

Renesas Electronics

Horizon Robotics

Texas Instruments

HiSilicon

MediaTek

Samsung Electronics

Fullhan Microelectronics

Rockchip Electronics

Hailo Technologies

Black Sesame Technologies

NXP Semiconductors

Axera Semiconductor

Novatek Microelectronics

SigmaStar Technology

Ingenic Semiconductor

Sony Semiconductor Solutions

iCatch Technology

Kneron

Allwinner Technology

SemiDrive Technology

VisioNext

Inuitive

Socionext

Goke Microelectronics

Intel Corporation

Canaan Inc.

SOPHGO Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global 4K AI Vision Processing SoC market?

What factors are driving 4K AI Vision Processing SoC market growth, globally and by region?

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

How do 4K AI Vision Processing SoC market opportunities vary by end market size?

How does 4K AI Vision Processing SoC break out by Type, by Application?

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