

Global 4K AI Vision Processing SoC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 4K AI Vision Processing SoC market size is expected to reach \$ 10529 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global 4K AI Vision Processing SoC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 4K AI Vision Processing SoC and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 4K AI Vision Processing SoC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 4K AI Vision Processing SoC total production and demand, 2021-2032, (Million Units)

Global 4K AI Vision Processing SoC total production value, 2021-2032, (USD Million)

Global 4K AI Vision Processing SoC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 4K AI Vision Processing SoC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 4K AI Vision Processing SoC domestic production, consumption, key domestic manufacturers and share

Global 4K AI Vision Processing SoC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 4K AI Vision Processing SoC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 4K AI Vision Processing SoC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 4K AI Vision Processing SoC market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mobileye Global Inc., Qualcomm Technologies, Ambarella, Renesas Electronics, Horizon Robotics, Texas Instruments, HiSilicon, MediaTek, Samsung Electronics, Fullhan Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 4K AI Vision Processing SoC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 4K AI Vision Processing SoC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 4K AI Vision Processing SoC Market, Segmentation by Type:

Single 4K Stream

Multi-4K Stream

Global 4K AI Vision Processing SoC Market, Segmentation by Function:

AI Camera SoC

AI ISP SoC

Global 4K AI Vision Processing SoC Market, Segmentation by Application:

Security and Surveillance

Automotive Vision

Robotics and Drones

Others

Companies Profiled:

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 Answered:

1. How big is the global 4K AI Vision Processing SoC market?
2. What is the demand of the global 4K AI Vision Processing SoC market?
3. What is the year over year growth of the global 4K AI Vision Processing SoC market?
4. What is the production and production value of the global 4K AI Vision Processing SoC market?

5. Who are the key producers in the global 4K AI Vision Processing SoC market?
6. What are the growth factors driving the market demand?

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