

Global 4K AI Vision Processing Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 4K AI Vision Processing Chips market size was valued at US\$ 4301 million in 2025 and is forecast to a readjusted size of US\$ 10529 million by 2032 with a CAGR of 13.5% during review period.

In 2025, global sales of 4K AI Vision Processing Chips 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 Chip 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 is a detailed and comprehensive analysis for global 4K AI Vision Processing

Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 4K AI Vision Processing Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4K AI Vision Processing Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4K AI Vision Processing Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4K AI Vision Processing Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 4K AI Vision Processing Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 4K AI Vision Processing Chips market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

4K AI Vision Processing Chips market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single 4K Stream

Multi-4K Stream

Market segment by Function

AI Camera SoC

AI ISP SoC

Market segment by Application

Security and Surveillance

Automotive Vision

Robotics and Drones

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4K AI Vision Processing Chips product scope, market

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4K AI Vision Processing Chips, with price, sales quantity, revenue, and global market share of 4K AI Vision Processing Chips from 2021 to 2026.

Chapter 3, the 4K AI Vision Processing Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4K AI Vision Processing Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 4K AI Vision Processing Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 4K AI Vision Processing Chips.

Chapter 14 and 15, to describe 4K AI Vision Processing Chips sales channel, distributors, customers, research findings and conclusion.

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