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Global AI Video Monitoring Chip Market Growth 2026-2032

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Abstracts

The global AI Video Monitoring Chip market size is predicted to grow from US$ 6157 million in 2025 to US$ 14510 million in 2032; it is expected to grow at a CAGR of 13.3% from 2026 to 2032.

AI chip in common sense refers to the chip with special acceleration design for AI algorithm. At present, AI algorithm is mainly based on deep learning algorithm, which can also include other machine learning algorithms. AI video monitoring chip is characterized by powerful performance, can support a large number of operations at the same time, and can flexibly support different AI applications such as pictures, voice and video. The technology based on cloud AI chip can enable all kinds of intelligent devices and cloud servers to connect quickly, and the connection can maintain maximum stability.

The global market for semiconductor was estimated at US$ 579 billion in the year 2022, is projected to US$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal

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conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Video Monitoring Chip 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 AI Video Monitoring Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Video Monitoring Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Front-end Chip

Back-end Chip

Segmentation by Application:

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Security

Autopilot

Robot

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

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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.

Qualcomm

STMicroelectronics

Marvell

Texas Instruments

AMBARELLA TAIWAN LTD.

Intel

Samsung

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Sony

Nextchip Co. Ltd.

Hailo

Omnivision

Hisilicon

NXP Semiconductors Taiwan Ltd.

Sigmastar Technology Ltd

Ingenic Semiconductor Co.,Ltd.

Hunan Goke Microelectronics Co.,Ltd.

Shanghai Fullhan Microelectronics Co.,Ltd.

Uniview Technologies Co.,Ltd.

Vimicro

Grain Media Inc.

Corerain

All Winner Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Video Monitoring Chip market?

What factors are driving AI Video Monitoring Chip market growth, globally and by region?

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

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How do AI Video Monitoring Chip market opportunities vary by end market size?

How does AI Video Monitoring Chip break out by Type, by Application?

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