

Global Lightweight Intelligent Vision Chip Market Growth 2026-2032

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Abstracts

The global Lightweight Intelligent Vision Chip market size is predicted to grow from US\$ 686 million in 2025 to US\$ 1512 million in 2032; it is expected to grow at a CAGR of 12.2% from 2026 to 2032.

In 2025, the global production volume of lightweight intelligent vision chips reached 35.0625 million units, with an average selling price of 20 USD per unit. The global annual production capacity of lightweight intelligent vision chips is approximately 50 million units, and the gross profit margin is around 27.2%. A lightweight intelligent vision chip is an integrated circuit chip specifically designed for vision processing, aimed at achieving fast, low-power image and video processing while supporting artificial intelligence (AI)-related vision computing tasks. It typically combines hardware acceleration and optimized algorithms, enabling devices to realize intelligent vision applications under resource-constrained conditions. The upstream of lightweight intelligent vision chips includes silicon wafers, photoresist, specialty gases, and others. The midstream consists of lightweight intelligent vision chip manufacturers, while the downstream mainly covers smart IP cameras, smart doorbells, and smart display cameras.

The current market for lightweight intelligent vision chips is in a phase of rapid expansion, primarily driven by the sustained increase in demand for low-power, low-cost edge intelligent computing from terminal devices. As a core component enabling real-time front-end visual perception and processing, the lightweight intelligent vision chip can efficiently perform AI tasks such as image recognition and object detection without relying on cloud or high-performance computing platforms. With the continuous enrichment of application scenarios such as smart security, smart home, and smart office, the market is placing higher demands on the integration level and energy

efficiency of such chips, driving continuous iteration toward higher computing power and lower power consumption. Overall, the industry is moving toward more efficient, easier-to-deploy, and more general-purpose edge intelligence solutions.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lightweight Intelligent Vision 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 Lightweight Intelligent Vision Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Lightweight Intelligent Vision Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Less Than 5 TOPS

5 TOPS-10 TOPS

More Than 10 TOPS

Segmentation by Computing Power Requirements:

Light Computing Power

Medium Computing Power

High Computing Power

Segmentation by Functional Positioning:

AI ISP Chip

NPU Vision Chip

Converged Chip

Segmentation by Application:

Smart Network Camera

Smart Doorbell

Smart Screen Camera

In-Vehicle Vision Products

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.

NXP

Silicon Labs

Renesas Electronics

Analog Devices

Texas Instruments

ON Semiconductor

Epson Ics

Nextchip

Goke Microelectronics

AXERA

HISILICON

Shanghai NextVPU

Rockchip Electronics

Fullhan Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lightweight Intelligent Vision Chip market?

What factors are driving Lightweight Intelligent Vision Chip market growth, globally and by region?

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

How do Lightweight Intelligent Vision Chip market opportunities vary by end market size?

How does Lightweight Intelligent Vision Chip break out by Type, by Application?

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