

Global IP Camera (IPC) Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IP Camera (IPC) Chip market size is expected to reach \$ 3141 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

IP Camera (IPC) Chip are core semiconductor devices used in IP cameras, smart cameras, security monitoring cameras, doorbell cameras, indoor and outdoor networking cameras, and other equipment. They typically include main control SoCs, ISP image signal processing chips, video encoding and decoding chips, AI vision processing chips, network communication chips, and CMOS image sensors. The main control SoC typically integrates functions such as CPU, ISP, video encoder, audio processing, AI acceleration unit, storage interface, Ethernet or wireless communication interface, security encryption module, etc. It can achieve image acquisition, noise reduction, wide dynamic range, low light enhancement, H.264 or H.265 compression encoding, intelligent recognition, network transmission, and local storage control. Network camera chips are widely used in security monitoring, smart homes, doorbells and door locks, commercial retail, industrial monitoring, vehicle monitoring, campus communities, urban governance, and IoT visual terminals. Their key indicators include resolution, frame rate, encoding format, ISP processing capability, AI computing power, low light performance, wide dynamic range, power consumption, network interface, storage interface, security encryption capability, and operating temperature range. In 2025, global IP Camera (IPC) Chip production reached approximately 386 M Units, with an average global market price of around US\$ 4.85 per unit.

IP Camera (IPC) Chip are core components in the security video and intelligent vision industry chain, and their demand is mainly driven by high-definition, intelligent, networked, and low-power consumption. Consumer smart home cameras and doorbell cameras place more emphasis on low power consumption, low cost, wireless

connectivity, cloud service adaptation, and human recognition, while professional security and industrial monitoring pay more attention to stability, wide temperature operation, multi-channel video processing, low bit rate encoding, low light imaging, network security, and long-term supply. Future opportunities mainly focus on edge AI cameras, 4K and 8K high-definition security, low-power battery cameras, smart doorbells, automotive and industrial vision, AI large model video analysis, end-to-end privacy computing, and domestic substitution. However, the market also faces pressure from price competition, inventory cycles, security project investment fluctuations, network security compliance, algorithm homogenization, and CMOS image sensor price fluctuations. Enterprises with chip integration capabilities, ISP algorithms, AI computing power efficiency, low-power design, ecological software support, and customer solution service capabilities are more likely to gain stable market share.

This report studies the global IP Camera (IPC) Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IP Camera (IPC) Chip 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 IP Camera (IPC) Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IP Camera (IPC) Chip total production and demand, 2021-2032, (Million Units)

Global IP Camera (IPC) Chip total production value, 2021-2032, (USD Million)

Global IP Camera (IPC) Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global IP Camera (IPC) Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: IP Camera (IPC) Chip domestic production, consumption, key domestic manufacturers and share

Global IP Camera (IPC) Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global IP Camera (IPC) Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global IP Camera (IPC) Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global IP Camera (IPC) Chip 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 Ambarella, OMNIVISION, Novatek Microelectronics, Texas Instruments, HiSilicon Technologies, SigmaStar Technology, Goke Microelectronics, Ingenic Semiconductor, Novatek Microelectronics Corp, 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 IP Camera (IPC) Chip 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 IP Camera (IPC) Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IP Camera (IPC) Chip Market, Segmentation by Type:

High-End Chip

Mid-Range Chip

Low-End Chip

Global IP Camera (IPC) Chip Market, Segmentation by Application Devices:

IPC Chip

ISP Chip

NVR Chip

DVR Chip

Global IP Camera (IPC) Chip Market, Segmentation by Resolution:

720p IP Camera (IPC) Chip

1080p IP Camera (IPC) Chip

2K IP Camera (IPC) Chip

4K IP Camera (IPC) Chip

8K IP Camera (IPC) Chip

Global IP Camera (IPC) Chip Market, Segmentation by Application:

Intelligent Security and Monitoring

Smart Home

Machine Vision

Industrial Inspection

Other

Companies Profiled:

Ambarella

OMNIVISION

Novatek Microelectronics

Texas Instruments

HiSilicon Technologies

SigmaStar Technology

Goke Microelectronics

Ingenic Semiconductor

Novatek Microelectronics Corp

Fullhan Microelectronics

AllwinnerTechnology

ASR Microelectronics

Anyka Microelectronics

Rockchip Electronics

Vimicro

Key Questions Answered:

1. How big is the global IP Camera (IPC) Chip market?
2. What is the demand of the global IP Camera (IPC) Chip market?
3. What is the year over year growth of the global IP Camera (IPC) Chip market?
4. What is the production and production value of the global IP Camera (IPC) Chip market?
5. Who are the key producers in the global IP Camera (IPC) Chip market?
6. What are the growth factors driving the market demand?

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