

Global Realtime Edge AI based Camera Market Growth 2024-2030

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Abstracts

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A real-time edge AI-based camera refers to a smart camera system equipped with embedded artificial intelligence (AI) capabilities that enable it to perform advanced image processing and analysis tasks directly at the edge of the network, without the need for cloud connectivity or external processing resources. These cameras are designed to capture and process video data in real-time, utilizing onboard AI algorithms to detect, recognize, classify, and track objects or events of interest within the camera's field of view. Real-time edge AI-based cameras typically feature powerful processors, dedicated AI accelerators, and machine learning models optimized for edge computing, allowing them to perform complex inference tasks such as object detection, facial recognition, gesture recognition, and activity monitoring with low latency and high accuracy. By processing data locally at the edge, these cameras can reduce bandwidth usage, minimize latency, and ensure privacy and security by keeping sensitive information within the local network. Real-time edge AI-based cameras find applications in various industries, including retail, manufacturing, transportation, security, and healthcare, where real-time insights and actionable intelligence are critical for decision-making, automation, and optimization of operations. Overall, real-time edge AI-based cameras represent a powerful convergence of AI and edge computing technologies, enabling intelligent video analytics and smart surveillance solutions that are capable of processing and interpreting visual data in real-time at the edge of the network.

The global Realtime Edge AI based Camera market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Realtime Edge AI based Camera Industry Forecast” looks at past sales and reviews total world Realtime Edge AI based Camera sales in 2023, providing a comprehensive analysis by region and market sector of projected Realtime Edge AI based Camera sales for 2024 through 2030. With Realtime Edge AI based Camera sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Realtime Edge AI based Camera industry.

This Insight Report provides a comprehensive analysis of the global Realtime Edge AI based Camera 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 Realtime Edge AI based Camera portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Realtime Edge AI based Camera market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Realtime Edge AI based Camera 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 Realtime Edge AI based Camera.

The current market for real-time edge AI-based cameras is experiencing rapid growth, driven by the increasing demand for intelligent video analytics and surveillance solutions across various industries. With the proliferation of IoT devices, smart sensors, and connected cameras, there is a growing need for edge-based AI solutions that can analyze and interpret visual data in real-time to enable proactive decision-making and automation of processes. Real-time edge AI-based cameras offer significant advantages over traditional surveillance systems by performing advanced image processing and analysis directly at the edge of the network, allowing for faster response times, reduced bandwidth requirements, and improved privacy and security. Moreover, advancements in AI algorithms, edge computing technologies, and hardware accelerators are driving innovation in real-time edge AI-based cameras, enabling them to perform increasingly complex tasks such as object detection, facial recognition, behavior analysis, and anomaly detection with higher accuracy and efficiency. Looking ahead, the future development trends of the real-time edge AI-based camera market are expected to focus on several key areas. These include the integration of multi-

modal sensing capabilities such as thermal imaging, depth sensing, and LiDAR to enhance situational awareness and enable more accurate and robust object detection and tracking in challenging environments. Additionally, there is a growing emphasis on edge-to-cloud integration, enabling seamless data sharing and collaboration between edge devices and cloud-based AI platforms for more comprehensive and scalable AI solutions. Furthermore, advancements in AI hardware such as neuromorphic processors and edge AI chips are expected to enable even more efficient and powerful AI inference at the edge, paving the way for new applications and use cases in smart cities, industrial automation, autonomous vehicles, and beyond. Overall, the real-time edge AI-based camera market is poised for continued growth and innovation as organizations seek to leverage AI and edge computing technologies to unlock new levels of intelligence and efficiency in visual data analysis and surveillance applications.

This report presents a comprehensive overview, market shares, and growth opportunities of Realtime Edge AI based Camera market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Camera Edge System

Multi-Camera Edge System

Segmentation by Application:

Bank

Business

Educational Institution

Medical Institution

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.

Hailo

Avinton

i-PRO

Ambicam

Adiance Solutions

LUIS Technology

Teksun

ACETECH

Videology

IDIS

VMukti

Ability

3DiVi

Detect

IDS

Hanwha Vision

Key Questions Addressed in this Report

What is the 10-year outlook for the global Realtime Edge AI based Camera market?

What factors are driving Realtime Edge AI based Camera market growth, globally and by region?

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

How do Realtime Edge AI based Camera market opportunities vary by end market size?

How does Realtime Edge AI based Camera break out by Type, by Application?

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