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Global Video Encoders Market Size study & Forecast, by Channel (1-Channel, 2-Channel, 4-Channel, 8-Channel, 16-Channel, and More than 16-Channel), by Type (Standalone and Rack-mounted), by Application (Broadcasting and Surveillance), and Regional Forecasts 2025-2035

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Abstracts

The Global Video Encoders Market is valued approximately at USD 2.66 billion in 2024 and is anticipated to grow with a CAGR of more than 7.60% over the forecast period 2025–2035. Video encoders are pivotal devices that convert analog video signals into digital streams, facilitating transmission, storage, and analysis across IP networks. They act as the backbone of modern surveillance, broadcasting, and streaming infrastructures—bridging legacy systems with emerging digital ecosystems. The increasing convergence of digital media technologies, rising deployment of IP-based surveillance systems, and surging demand for high-quality video streaming across OTT platforms are key forces driving the global market. Furthermore, the transition toward cloud-based video management and the proliferation of smart surveillance systems in urban environments are fostering robust adoption of video encoding solutions across commercial, industrial, and government sectors. As 4K and 8K video formats become mainstream, the need for efficient encoding technologies capable of managing massive data loads with minimal latency has intensified, giving the market a sharp upward trajectory.

The proliferation of digital streaming platforms, the emergence of AI-driven analytics, and the expansion of smart city projects are significantly accelerating the demand for high-performance video encoders. According to Cisco's Visual Networking Index, video content will constitute nearly 82% of global internet traffic by 2025, underscoring the

vital role of efficient encoding in managing the deluge of data. Video encoders are being integrated into network cameras, drones, autonomous vehicles, and broadcasting systems, where seamless transmission quality and low latency are imperative. Moreover, growing security concerns have led to a rise in large-scale surveillance deployments in airports, public infrastructures, and government facilities—further stimulating market growth. However, challenges such as high deployment costs, bandwidth limitations in remote regions, and compatibility issues between new IP systems and legacy analog equipment could moderately impede adoption. Nonetheless, advancements in compression standards such as H.265, H.266 (VVC), and AV1 are unlocking new frontiers for cost-efficient, high-resolution video encoding technologies.

The detailed segments and sub-segments included in the report are:

By Channel:

- 1-Channel
- 2-Channel
- 4-Channel
- 8-Channel
- 16-Channel
- More than 16-Channel

By Type:

- Standalone
- Rack-mounted

By Application:

- Broadcasting

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Surveillance

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Rack-mounted Encoders are Expected to Dominate the Market

Among the various types, rack-mounted encoders are expected to dominate the global video encoders market throughout the forecast period. These encoders are preferred across large-scale broadcasting and security operations that require high-density multi-channel processing and centralized management. Their modular configuration enables easy scalability and integration into network architectures, making them indispensable for professional video production studios, cable TV operators, and enterprise-grade surveillance systems. Rack-mounted solutions are also favored for their reliability, superior heat management, and ability to support high throughput under continuous operation. The segment's growth is further bolstered by the increasing adoption of cloud-integrated encoding platforms and the rising need for real-time video analytics, particularly in mission-critical applications like traffic monitoring and border control.

Surveillance Applications Lead in Revenue Contribution

When categorized by application, surveillance currently generates the largest share of revenue in the global video encoders market. The global emphasis on public safety, law enforcement, and asset protection has led to an exponential increase in surveillance networks powered by high-definition video analytics. Government initiatives promoting smart cities and infrastructure digitization are further intensifying the need for video encoders that can efficiently transmit footage from analog cameras to IP-based systems. These encoders facilitate seamless real-time monitoring, enhance interoperability across networks, and improve storage efficiency through advanced compression algorithms. Meanwhile, broadcasting applications are rapidly evolving, driven by the shift to live streaming, UHD content distribution, and remote production workflows. While surveillance remains the established leader in revenue contribution, broadcasting is projected to expand notably as media networks transition to IP-based ecosystems and cloud-enabled content delivery systems.

The key regions considered for the Global Video Encoders Market study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. North America dominated the market in 2025 with the largest share, driven by widespread adoption of advanced IP video systems, early technological innovation, and a strong base of video infrastructure providers. The region’s emphasis on homeland security, intelligent transportation systems, and enterprise surveillance continues to bolster demand. Conversely, Asia Pacific is poised to witness the fastest growth during the forecast period, fueled by extensive government investments in urban surveillance, smart transportation, and digital broadcasting infrastructure in countries such as China, India, and Japan. Moreover, the proliferation of OTT platforms, expansion of 5G networks, and the increasing number of internet users across the region further enhance the demand for real-time, low-latency video encoding solutions. Meanwhile, Europe maintains a strong presence owing to its transition to IP-based broadcasting standards and growing investments in public safety infrastructure.

Major market players included in this report are:

- Cisco Systems, Inc.
- Axis Communications AB
- Harmonic Inc.
- VITEC Group plc
- Haivision Systems Inc.

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Evertz Microsystems Ltd.

Hikvision Digital Technology Co., Ltd.

Dahua Technology Co., Ltd.

Panasonic Holdings Corporation

AJA Video Systems, Inc.

Ateme SA

Bosch Security Systems GmbH

Matrox Video Ltd.

Telairity, Inc.

NetMedia, Inc.

Global Video Encoders Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional-level analysis for each market segment.
- Detailed analysis of the geographical landscape with country-level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of the competitive structure of the market.
- Demand side and supply side analysis of the market.

Contents

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CHAPTER 6. GLOBAL VIDEO ENCODERS MARKET SIZE & FORECASTS BY TYPE 2025-2035

CHAPTER 7. GLOBAL VIDEO ENCODERS MARKET SIZE & FORECASTS BY APPLICATION 2025–2035

CHAPTER 8. GLOBAL VIDEO ENCODERS MARKET SIZE & FORECASTS BY REGION 2025–2035

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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