

Video Surveillance Storage Market Forecasts to 2030 – Global Analysis By Product (Storage Arrays, Network Video Recorders, Digital Video Recorders, Cloud-Based Storage Solutions, Portable Drives & Optical Discs and Other Products), Component, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Video Surveillance Storage Market is accounted for \$9.5 billion in 2024 and is expected to reach \$14.8 billion by 2030 growing at a CAGR of 7.7% during the forecast period. Video surveillance storage is a crucial technology for managing and retrieving video footage captured by surveillance cameras. It involves hardware and software solutions for efficient recording, archiving, and retrieval for security, monitoring, and regulatory purposes. It can be deployed on on-site devices like Network Attached Storage (NAS) or Digital Video Recorders (DVRs) or cloud-based solutions for remote access and scalable data management. These systems support real-time recording, backup, and long-term footage retention, ensuring high availability, fast retrieval, and data security.

According to research by video surveillance storage association, the number of cameras used for video surveillance across the globe will climb above 7.9 billion by the end of 2022.

Market Dynamics:

Driver:

Growing concerns about public and private security

Security concerns have led to the use of higher-resolution cameras, resulting in larger video files that require significant storage capacity. To handle this, robust storage solutions are needed, including advanced hard drives, Network Attached Storage (NAS) systems, and cloud-based platforms. These solutions must be able to handle real-time footage and long-term archiving, ensuring the effectiveness of surveillance systems while maintaining quality and performance propelling the market growth.

Restraint:

Data privacy and security concerns

Governments worldwide have implemented strict data privacy laws, including the general data protection regulation (GDPR) in Europe and the California consumer privacy act (CCPA) in the U.S. Compliance with these laws often necessitates more complex and expensive storage systems, such as anonymization or encryption, which can increase costs in managing data storage and maintaining compliance. Additionally, regulations often impose retention limits on surveillance data, such as GDPR, which restricts data retention beyond necessary, limiting the potential for long-term archiving and reducing the market's need for large-scale storage solutions.

Opportunity:

Rise of smart city projects and surge in E-commerce and retail sector

Smart city projects aim to improve urban living by integrating technologies like sensors, data analytics, and IoT devices. Video surveillance is a key component of these projects, deployed across cities to monitor public spaces, traffic, public safety, and critical infrastructure. Cities deploy vast networks of cameras to monitor various aspects, generating large volumes of video data. The increasing number of cameras leads to a dramatic increase in data volume, as cities monitor not only traffic but also public transportation hubs, parks, parking lots, and public buildings, increasing storage requirements for surveillance footage.

Threat:

Bandwidth and connectivity issues

The rise in video surveillance systems using higher resolution cameras has led to a

significant increase in data volume, necessitating increased bandwidth for efficient transmission and storage. Additionally, high bandwidth requirements also increase operational costs, necessitating investments in dedicated high-speed internet connections or high-capacity networking hardware to ensure smooth video data transfer, thereby increasing the total cost of ownership for surveillance storage solutions impeding the market.

Covid-19 Impact

The COVID-19 pandemic significantly impacted the video surveillance storage market, driving an increased demand for security solutions as businesses and governments. The surge in remote monitoring, particularly for monitoring social distancing, crowd control, and access management, led to higher data storage needs. Additionally, the shift to cloud-based solutions accelerated as organizations sought scalable, remote-accessible storage options. However, the economic downturn also led to cost-cutting measures, delaying some infrastructure investments in video surveillance and storage.

The network video recorders segment is expected to be the largest during the forecast period

Over the estimation period, the network video recorders segment is expected to capture the largest market share owing to increasing amount of data. The high-definition video from multiple cameras in large surveillance setups significantly boosts storage needs, pushing traditional storage systems' limits. Network video recorders also retain video footage for extended periods, especially for compliance or investigative purposes, requiring storage systems to handle a greater volume of archived footage, driving demand for scalable storage solutions.

The commercial segment is expected to have the highest CAGR during the forecast period

The commercial segment is expected to have the highest CAGR during the estimation period owing to retail, banking, logistics, and transportation. Retail surveillance is used for theft prevention, crowd control, and loss prevention, while banking and financial institutions require long-term footage retention for compliance purposes. In logistics and transportation, video surveillance is used for monitoring goods, managing traffic, and ensuring safety in warehouses and distribution centers. The increasing demand for storage systems capable of handling high-definition and 4K video footage is driving the need for scalable solutions.

Region with largest share:

Over the forecasted timeframe, the North America region is anticipated to dominate the market share owing to governments and municipalities are investing heavily in surveillance systems to improve public safety. Large-scale video surveillance is being deployed in public spaces, transport networks, and government buildings, leading to a need for robust and scalable storage solutions. Commercial sectors, including retail, banking, transportation, and logistics, are also contributing to the demand for video surveillance storage. Businesses are adopting high-definition cameras and AI-based analytics to enhance security and operational efficiency.

Region with highest CAGR:

The Asia Pacific region is anticipated to witness the highest CAGR rate throughout the forecast period due to growth which necessitates robust security solutions to ensure public safety and asset protection. Smart cities in these countries have led to increased deployment of video surveillance systems, requiring extensive video storage capabilities to handle large volumes of data. Infrastructure growth in the region, such as airports, metro systems, roads, and industrial parks, also drives the demand for video surveillance storage systems capable of handling real-time and archived footage.

Key players in the market

Some of the key players in Video Surveillance Storage market include Avigilon Corporation and Axis Communications AB, Bosch Security Systems Incorporated, Cisco Systems Inc, FLIR systems Inc., Hitachi Ltd, Honeywell Security Group, Huawei Technologies Co., Ltd., IBM Corporation, Infinova Corporation, Panasonic Corporation, Pelco Corporations, Qognify, Inc., Samsung Group, SAP SE, Schneider Electric SE, Sony Corporation and Zhejiang Dahua Technology Company Limited.

Key Developments:

In November 2024, Cisco announced an expanded partnership to transform how global enterprises access wireless connectivity. However, with the advent of Embedded SIM (eSIM) in the market, the time has come to think broader and deliver network connectivity securely wherever needed.

In November 2024, Cisco announced that LTIMindtree is now leveraging Cisco Secure

Access as its security service edge (SSE) solution to enable secure hybrid work experiences for its employees and customers worldwide.

In July 2024, Honeywell has signed a long-term agreement with Air India Limited, India's leading global airline and a Tata Group enterprise, for Auxiliary Power Unit (APU) aftermarket support covering both Air India's existing and new fleets.

Products Covered:

Storage Arrays

Network Video Recorders

Digital Video Recorders

Cloud-Based Storage Solutions

Portable Drives & Optical Discs

Other Products

Components Covered:

Hardware

Software

Professional Services

Managed Services

Other Components

Applications Covered:

Customer Behavior Analysis

Inventory Management

Workplace Safety Monitoring

Production Process Tracking

Asset Protection & Quality Control

Patient Safety & Monitoring Sensitive Areas

Logistics & Supply Chain Management

Other Applications

End Users Covered:

Commercial

Industrial

Residential

Government & Defense

Transportation

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East &

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