

# AI CCTV Cameras: The New Standard for Real-Time Security and Efficiency

AI CCTV Market Expected to Reach \$55.22 Billion by 2030

WILMINGTON, DE, UNITED STATES, January 27, 2025 /EINPresswire.com/ -- Artificial intelligence technology has transformed the way security cameras are used. Traditional CCTV systems relied on human operators to monitor footage, which frequently caused slow responses. AI-powered CCTV cameras, on the other hand, use machine learning algorithms to immediately detect and alert authorities about possible security threats in real-time.

These cameras can identify and track objects, humans, and vehicles, which further makes them effective for surveillance. With AI CCTV, law enforcement bodies and businesses can focus on proactive reaction and prevention, rather than reacting to incidents. The integration of AI in CCTV systems has advanced the security industry, offering desirable visibility, performance, and productivity.

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The global AI CCTV market is set to grow significantly, driven by rising demand for advanced surveillance systems and increasing public safety concerns.”

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AI-powered surveillance cameras are used to boost public

Nowadays, government authorities across the globe are using AI-powered surveillance cameras to boost public

safety and security. Although millions of cameras are being installed worldwide, humans can't monitor such a huge number of installed cameras. Artificial intelligence helps them by analyzing the live footage in real time, which assists in identifying potential threats and preventing incidents. Many countries are adopting advanced AI surveillance technologies for effective tracking, monitoring, and management of people for various reasons, including crime prevention and detection, as well as smart city infrastructure development.

AI-powered cameras excel because of their ability to learn and improve with time. Initially, the system identifies objects in a scene, compares the results with human-provided annotations, and refines its understanding. For example, these cameras can recognize unusual behavior in public spaces, like abandoned bags in an airport, and alert authorities in real time.

One of the key applications of AI-powered cameras is at traffic signals, where they can detect and read license plates of moving and parked vehicles. The technology is used in cities such as Singapore and New York for managing traffic violations and the smooth flow of traffic in cities. Moreover, AI-powered cameras enhance the quality of images and videos, further helping in identifying important details effectively.

Hence, the growing demand for advanced surveillance systems has contributed to robust growth in the [AI CCTV market](#). With the capacity to analyze large volumes of data at a faster and more accurate pace, AI CCTV technology is predicted to revolutionize public safety and security around the globe.

Artificial intelligence is constantly changing the AI CCTV industry by converting long periods of unused video into useful data. AI-powered video analytics are able to identify trends and patterns in surveillance footage, providing insights that manual monitoring cannot achieve. This advancement enables security teams to extract valuable information from unused video resources that are mostly excluded. As a result, more businesses are recognizing the importance of AI video analytics and are beginning to allocate budgets for its adoption.

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One of the most notable trends in surveillance cameras is their integration with video analytics for the generation of big data. Several factors contribute to this technology including:

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Deep learning, a cutting-edge innovation in video surveillance, provides new ways for security teams to work. Using advanced AI techniques like convolutional neural networks, video analytics can recognize patterns in images, such as detecting people or vehicles. As these networks are trained on more data, their accuracy and speed improve, leading to better solutions.

Video analytics in security systems permits teams to maximize existing resources. Unlike human

operators, whose accuracy declines over time because of fatigue or distractions during extended shifts, AI-driven analytics maintain consistent 24/7 monitoring capabilities. However, this technology does not replace human expertise, security professionals are still needed to check alarms and proper responses.

AI-powered analytics help teams focus on making key decisions by automating repetitive and time-consuming tasks, such as analyzing long video footage. This enables faster, more informed responses to incidents through the rapid processing of video data recording by technology.

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Edge computing has emerged as an important technological advancement in the CCTV sector. Data analysis is conducted directly on devices, such as security cameras, rather than depending on centralized servers. Also referred to as edge analytics, this technology offers numerous advantages:

Reduced latency for quicker responses

Edge computing reduces latency by processing data locally rather than transmitting large video files to a centralized server. Cameras equipped with edge analytics send only relevant video snippets, thereby facilitating quicker decision-making during serious incidents.

Efficient bandwidth and storage usage

Traditional systems that continuously stream video require large amounts of bandwidth and storage. Edge analytics significantly reduces this burden by transmitting only essential data. This results in lower costs and faster data transmission speeds.

As edge computing becomes more common, security cameras are now being built with better hardware that can do more comprehensive analysis. This change helps provide quicker alerts and makes the network work more efficiently. Because of this, edge computing is an important part of modern CCTV technology. Thus, advancements in AI-powered video analytics and edge computing are reshaping the AI CCTV industry.

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In the last few years, several multinational corporations have strategically engaged in mergers and acquisitions, joint ventures, collaborations, and enhanced investments in research & development efforts to reinforce their foothold in the global AI CCTV market.

For instance, in February 2024, IDIS, a leading South Korean manufacturer of video technologies, expanded its range of Edge AI cameras. These cameras offer enhanced deep-learning video analytics for diverse applications. Designed for commercial premises, public spaces, and perimeters, the new models minimize false alarms while delivering advanced, localized AI-powered analytics. This technology accurately distinguishes between humans, vehicles, and

other objects, thereby improving system reliability.

"With these innovative launches, the range of Edge AI cameras has significantly expanded to cater to the widest range of surveillance applications and challenges," said Andrew Myung, president of IDIS America. Powered by the highly accurate IDIS Deep Learning Engine, which delivers up to 98% accuracy, these models enable systems integrators and users to seamlessly implement advanced video analytics. Their enhanced features improved response times to serious incidents and increased operational efficiency, making them perfect for contemporary surveillance tasks.

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Another key development, in June 2023, Hanwha Vision introduced a bi-spectrum AI camera series, including the TNM-C4960TD, TNM-C4950TD, and TNM-C4940TD, which offer simultaneous visual and thermal imaging. Equipped with dual lenses, these cameras provide VGA thermal and 4K visual images, enabling improved detection and identification along perimeters, even in low-light or poor weather conditions, without requiring separate devices, thereby reducing overall costs.

These cameras utilized AI-based object detection and classification to minimize false alarms and facilitate efficient forensic searches. They were able to identify humans, vehicles, and number plates, and detect irrelevant movements such as shadows or stray animals. The cameras monitor traffic and industrial environments, pointing out stopped vehicles or abnormal temperature fluctuations that signal equipment failure. Operators can switch between thermal color palettes for detailed insights. The cameras have field-of-view options ranging from 50°/37° to 17.4°/13.1°, which meets the diverse needs of security, traffic, and industrial applications.

AI CCTV cameras revolutionized security by enhancing real-time threat detection, traffic management, and efficiency. The growing demand for advanced surveillance systems provides great opportunities in AI video analytics, edge computing, and deep learning. Moreover, these technologies assist businesses in enhancing their security measures, reducing costs, and making better decisions, which promotes growth in the sector.

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1. Environmental Sensor Market - <https://technomarknews.blogspot.com/2025/01/the-evolution-of-environmental-sensors.html>

2. Signal Generator Market - <https://technomarknews.blogspot.com/2025/01/how-do-signal-generators-impact.html>

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David Correa

Allied Market Research

+1 800-792-5285

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