

3D Surveillance Software Market to Witness an Outstanding Growth By 2031

*3D Surveillance Software Market
Expected to Reach \$211.5 Million by 2031
— Allied Market Research*

WILMINGTON, DE, UNITED STATES, July 21, 2025 /EINPresswire.com/ -- Allied Market Research, titled "[3D Surveillance Software Market](#)," The 3d surveillance software market was valued at \$110.60 million in 2021 and is estimated to reach \$211.5 million by 2031, growing at a CAGR of 7% from 2022 to 2031. The 3D surveillance

software market growth is driven by its growing applications across energy & power generation, defense, transportation, oil & gas, buildings, real estate, and other sectors. In the real estate sector, this software can be used to protect and secure homes from theft and vandalism. This is because the 3D surveillance software can efficiently determine the exact position of the intruder,

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Rising 3D surveillance software use in utilities, transport, energy, defense, oil & gas, and more is set to boost market growth and create strong opportunities.”

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and with the help of AI, it can also distinguish between a threat and a non-threat. The widespread use of 3D surveillance software in automobile production facilities for applications such as component checking, error proofing, and assembly verification is gaining huge demand. In addition, the growing adoption of this software across various industries is a major factor driving the market growth.

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The 3D surveillance software is a breakthrough technology that has in-depth sensing capabilities for facial and object recognition. The 3D surveillance software can accurately capture the height, width, and length of the object with the use of various technologies such as Artificial Intelligence (AI), edge computing, Light Detection and Ranging (LiDAR), and others. The 3D surveillance software market growth is majorly attributed to its safety, efficiency, and effectiveness in



manufacturing operations across factories, plants, or mills.

The 3D surveillance software industry is anticipated to grow at a rapid pace, owing to its ability to determine intruders, theft, vandalism, and other security threats. Due to this, this software finds a wide range of applications across energy & power generation, transportation, oil & gas, utilities & communication, and others. For instance, the oil & gas sector has critical equipment that operates remotely. Hence, the operators operating in the oil & gas sector strive to keep their assets safe and to prevent them from leakage, tampering, or attacks. Improper handling of this equipment can cause a safety hazard. Also, monitoring large assets and large pipelines can be challenging. Hence, 3D surveillance software can be used to address these challenges reliably and cost-effectively. This is possible with the help of thermal and video cameras, AI, and edge computing solutions that can distinguish between threats and non-threats. The automated alerts provided by 3D surveillance software can warn the guards against any security events. In addition, this software can help the operators create security zones, allowing only authorized personnel to enter. These aspects are anticipated to boost the [3D surveillance software market size](#) during the forecast period.

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Although the growth rate of the 3D surveillance software market is high, a lack of awareness regarding this software and its use across several industries is anticipated to restrain the 3D surveillance software market's growth.

The use of 3D surveillance software across the automotive and defense sectors is anticipated to generate excellent opportunities in the market. In the automotive sector, this software can monitor the operations of autonomous manufacturing plants. Many automotive companies are shifting from automated to autonomous production processes. However, the lack of a reliable, accurate, and up-to-date information-providing system can stall operations or put the workers in danger. Hence, in such cases, the 3D surveillance software industry plays a major role in setting up security zones around the machinery. If a worker crosses this security zone, the alarm will be triggered to alert the worker about the danger. Similarly, in the defense sector, border control is crucial to ensure the nation's security. Hence, in the defense sector, the use of 3D surveillance software can safeguard the country's border day & night and in all weather conditions by automatically providing notification and alarm in case of a security breach. These factors are anticipated to create several growth opportunities in the 3D surveillance software market during the forecast period.

The 3D surveillance software market is segmented based on application, deployment, and region. By application, it is classified into commercial, industrial, and residential. By deployment, it is divided into on-premise and cloud-based. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players profiled in the 3D surveillance software market analysis report include Hexagon, Surveill 3D, Cambridge Pixel Ltd., Tacticware Resource Group LLC, MIRASYS, Dallmeier Electronic GmbH & Co. KG, Northern Digital Inc., Noitom Ltd., OptiTrack, and Vicon Motion Systems Ltd.

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The report offers a comprehensive analysis of the global 3D surveillance software market trends by thoroughly studying different aspects of the market, including major segments, market statistics, market dynamics, regional market outlook, investment opportunities, and top players working towards the growth of the market. The report also highlights the present scenario and upcoming trends & developments that are contributing toward the growth of the market. Moreover, restraints and challenges that hold power to obstruct the market growth are also profiled in the report, along with Porter's five forces analysis of the market to elucidate factors such as competitive landscape, bargaining power of buyers and suppliers, threats of new players, and the emergence of substitutes in the market.

Key Findings of the Study

- Based on application, the industrial sub-segment emerged as the global leader in 2021 and is anticipated to be the fastest-growing segment during the forecast period
- Based on deployment, the cloud-based sub-segment emerged as the global leader in 2021 and is predicted to witness the fastest growth during the forecast years
- Based on region, the North American market registered the highest market share in 2021 and is projected to maintain its position during the forecast period

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David Correa

Allied Market Research

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