Gunshot Detection Systems Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The gunshot detection systems market is anticipated to grow at a CAGR of over 8% during the forecast period.

The COVID-19 pandemic had a negative impact on the market because there was a decrease in demand for new gunshot detection systems in various countries worldwide due to a drop in new gunshot system production by various manufacturers. Moreover, the pandemic also led to a decline in the revenues for various manufacturers of gunshot detection systems across the globe, owing to late deliveries of the final product, manufacturing shutdowns, a reduction of staff at the production facilities, and the limited availability of components that are essential for the manufacturing of the final product. In the present scenario, the subsiding of the pandemic has created new opportunities for gunshot detection manufacturers. A significant increase in procurement plans by various countries worldwide has boosted the production of gunshot detection systems. Additionally, opening borders to facilitate the free flow of parts and components has led to manufacturers being able to access critical raw materials, which will lead to growth in the market in the coming years.

Various countries worldwide, including the United States and Canada, have begun to install gunshot detection systems near educational institutions due to an increase in the number of mass shootings at or near educational institutions in recent years.

In 2021, there was a significant increase in civilian gun purchases, with gun manufacturers selling approximately six guns for every hundred Americans. Gun sales totaled USD 2.2 million in January 2021, with sales totaling USD 1.9 million in December 2021. Furthermore, the number of gun-related deaths has increased during the pandemic. In the United States, for example, gun violence killed 20,726 people in 2021, up from 19,486 in 2020. Due to an increase in shootings and an increase in the number of guns purchased, various countries around the world have now advocated for stricter gun control regulations to be implemented.

In the present scenario, governments worldwide are also planning to make investments to procure advanced gun control detection systems, which can be used for increasing public safety and security. Various manufacturers of gunshot detection systems are manufacturing advanced products by making use of standardized protocols such as RTSP, which can seamlessly integrate with most existing security camera and video management systems that are already in place and thus detect gunshots or even analyze the structure of a gun and alert the concerned authorities. In addition, manufacturers have also made advancements in integrating newer technologies into their products by developing a newer range of gunshot detection systems that can proactively spot, assist, and prevent a major catastrophe. Thus, an increase in the number of mass shootings, a surge in the adoption of IoT, and an increase in the utilization of gunshot detection systems, coupled with an increase in the need for advanced gunshot detection systems in various countries, will help to boost the market during the forecast period.

Gunshot Detection Systems Market Trends

The Law Enforcement Segment is Expected to Witness the Largest Market Share in the Market

The law enforcement segment would witness the largest market share in the gunshot detection systems market during the forecast period. The growth in the number of gunshot detection systems being acquired by law enforcement agencies around the world would boost the growth of the market in the coming years.

Law enforcement agencies are trained to go to the last reported location of an assailant or, in the case of gun violence, the active shooter. Currently, most security professionals are familiar with outdoor, citywide solutions, but indoor gunshot detection is still an ambiguous concept for law enforcement agencies. In recent years, there has been an increase in the number of cases where people have lost their lives to mass shootouts and other gun-related violence. In an effort to address the persistent and complex issue of violence in their communities, many law enforcement agencies around the world have begun using technologies that hasten their responses to events involving gun violence and aid their investigations of such incidents. One such tool is gunshot detection technology (GDT), a system that uses a network of outdoor acoustic sensors to automatically detect gunfire and promptly alert law enforcement officers.

Law enforcement executives and command staff have a lead role in gunshot detection technology acquisition and usage. In addition to making decisions about whether to invest in the technology and about the size and location of coverage areas, they also lead policy development and training decisions on the use of such systems. Although gunshot detection systems do provide law enforcement agencies with a competitive advantage, they are expensive to procure and maintain. Breakthroughs in sensors, reliability, and false triggering immunity have made gunshot detection a compelling offering for law enforcement agencies. Various agencies around the world are now looking forward to procuring advanced gunshot detection systems that can assist them in preventing hazards. For example, law enforcement agencies in the United States are focused on procuring advanced gunshot detection systems from manufacturers, such as Shotspotter and Vanderbilt, which integrate advanced technology in their products that are effective in spotting and alerting the authorities. Thus, the market is expected to grow during the forecast period.

North America will witness the highest growth in the Gunshot Detection Systems Market

The region of North America will witness the highest growth in the gunshot detection systems market during the forecast period. The increasing number of gun violence coupled with the increasing need for advanced gunshot detection systems will lead to the market growing significantly in the coming years.

The United States has witnessed increased gun violence over the past few years, due to which law enforcement authorities have installed gunshot detection systems. Gun ownership in the United States is the highest globally and is constitutionally protected by the Second Amendment to the United States Constitution. Firearms are widely used in the United States for self-defense,

hunting, and recreational uses, such as target shooting.

On the other hand, the increase in the number of gun-related deaths in the United States over the past few years has led to the United States government implementing new laws and regulations which when implemented shall lead to a reduction in the number of gun-related deaths in the United States by restricting the number of guns being purchased by the general public. The United States is in drastic need of advanced gunshot detection systems which can help to alert the authorities quickly and also reduce the response times of law enforcement agencies. Various gunshot detection system manufacturers in the United States such as ShotSpotter as well as Raytheon Technologies Corporation are engaged in developing advanced systems which will help in upgrading the security and safety of the area and thus, developments such as the ones mentioned before will lead to a growth in the market in the coming years.

Gunshot Detection Systems Market Competitor Analysis

The market for gunshot detection systems is slightly fragmented due to the presence of several sensor manufacturers and related software providers. Some prominent gunshot detection systems market players are ACOEM Group, ShotSpotter Inc., Raytheon Technologies Corporation, Rheinmetall AG, and Thales Group. Various companies are now focused on growth strategies, which include the development and launch of new gunshot detection products, product approvals, and patents. Moreover, an expanded product portfolio of advanced gunshot detection solutions, as well as increased investments in R&D and strategic acquisitions, would be the key factors that would lead to these players dominating the market during the forecast period.

Additional Benefits:

  The market estimate (ME) sheet in Excel format
 3 months of analyst support

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