

Global Cellular Signal Repeater Market 2023

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Abstracts

In the realm of security, the process of screening plays a vital role in safeguarding various domains such as airports, border checkpoints, and government organizations against potential threats, particularly those posed by terrorist activities. Security screening involves the meticulous electronic examination of a wide range of items, including baggage, mail, parcels, cargo, and vehicles. This examination is conducted using advanced techniques such as X-ray scanning, CT-based scanning, neutron sensing, and detection.

The Security Screening Market has been witnessing significant growth and is projected to expand from USD 4.2 billion in 2022 to USD 5.9 billion by 2029, exhibiting a compound annual growth rate (CAGR) of 4.9% during the forecast period. This growth can be attributed to the increasing expenditure by governments on advanced security equipment, which in turn drives the demand for sophisticated screening systems.

Governments across the globe are actively adopting automated solutions to enhance their ability to detect prohibited substances and ensure the safety of their citizens. However, the outbreak of the pandemic temporarily impacted the growth of the security screening market. Nevertheless, as passenger numbers and international trade gradually recover, there is an expected boost in cargo volumes within the airline industry. This resurgence, coupled with the construction of new airports that prioritize touchless technology and public health protection, is expected to contribute to the growth of the security screening market.

Despite the positive outlook, the security screening industry faces several challenges. High costs associated with implementing and maintaining advanced screening systems pose a significant hurdle for organizations. Additionally, the requirement for a skilled workforce capable of operating and managing these systems further adds to the challenges faced by the industry. Moreover, health concerns related to the use of

security scanners have also emerged as a critical factor that needs to be addressed.

Market Segmentation

The market is divided into segments based on several factors, which include detection technology, application, end user, and region.

Segmentation by Detection Technology

X-ray

CT-based

Neutron Sensing and Detection

Others

In 2022, the X-ray segment dominated the market with a significant market share of 48.4%. However, it is projected that the CT-based segment will experience the highest compound annual growth rate (CAGR) of 5.1%. The utilization of X-ray security screening is widespread in aviation and transport security, making automated screening systems indispensable. The process of X-ray imaging for baggage search is of utmost importance in ensuring airport security, and as a result, investments in baggage scanners incorporating X-ray technology are on the rise.

Segmentation by Application

Mail and Parcel

Baggage Scanning

Cargo and Vehicle Inspection

Explosives and Narcotics

The baggage scanning segment held the largest market share of 42.7% in 2022, while the Mail & Parcel segment is expected to achieve the highest CAGR of 5.2%. Baggage scanners play a critical role in maintaining safety at airports and other transportation hubs. The implementation of security technology, including baggage scanners, serves as a defense against anti-social organizations and terrorist threats.

Segmentation by End User

Airports

Ports and Borders

Defense

Critical Infrastructure

Commercial

Law Enforcement and Transportation

In 2022, the airports segment accounted for the largest market share of 47.8%, with the law enforcement segment projected to have the highest CAGR of 5.3%. Airport security involves multiple screening checkpoints to prevent the entry of unauthorized items. The demand for self-screening technologies is on the rise, and security systems will be installed worldwide to counter ongoing terrorist threats.

Segmentation by Region

North America - United States and Canada

Europe - United Kingdom, Germany, France, and Rest of Europe

Asia-Pacific - China, Japan, India, and Rest of Asia-Pacific

Rest of the World

The Asia-Pacific region held the largest market share of 36.3% in 2022, with the highest CAGR of 5.4%. The demand for security screening is driven by China's role in 5G deployment and development. Additionally, countries like India, Japan, and Australia prioritize safety measures in critical infrastructure sectors. The establishment of security standards by international authorities has led to a greater adoption of screening systems at airports.

Competitive Landscape

The security screening market has become highly competitive as a result of the increasing demand for safety and security. Several key companies have been profiled in this market, including Smiths Detection Inc., Leidos Holdings Inc., OSI Systems Inc., 3DX-Ray Ltd, Teledyne ICM SA, Analogic Corporation, Nuctech Company Limited, Astrophysics Inc., CEIA SpA, Gilardoni SpA, Muon Systems, Decision Sciences, Passport Systems Inc., and Lingacom Ltd. These companies play a significant role in meeting the growing needs of the security screening industry.

Recent Industry Developments

OSI Systems, Inc.'s Security division received a USD 20 million order from ANA Aeroportos de Portugal in March 2023. The order includes multiple units of their RTT 110 explosive detection system for screening checked baggage at airports in Portugal. The company will also provide maintenance and support for these installations.

Smiths Detection Inc. was awarded a contract in February 2023 to supply advanced security technology to New Zealand's Aviation Security Service. The contract covers five major international airports in Christchurch, Queenstown, Dunedin, Wellington, and

Auckland. Smiths Detection Inc. will deliver 35 HI-SCAN 6040CTiX CT X-ray machines, an iLane.evo smart automatic tray return system, and the iCMORE Weapons algorithm.

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