

X-ray Security Scanner - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The X-ray Security Scanner Market size is estimated at USD 4.40 billion in 2025, and is expected to reach USD 6.73 billion by 2030, at a CAGR of 8.89% during the forecast period (2025-2030).

The X-ray security scanners throw low-radiation penetration to detect metallic and non-metallic objects if hidden.

Key Highlights

- With the growth of international trade in commodities and the emergence of fresh security risks across a range of industries, security has been elevated to the top of the priority list. A number of industries are expanding quickly, including event management, police enforcement, lodging and dining, and transportation. The need for X-ray security scanners in the market will increase as the volume of commodities traded is anticipated to increase. Various trade agreements have allowed for continued robust trading in North America, Europe, and Asia.
- The importance of public space security has increased due to an increase in terrorist activity around the world. Various terrorist organizations are enticing followers to target the countries supporting the military operations in Iraq and Syria in Western countries. The importance of intelligence and security systems has increased in light of the same. The x-ray security market is thus being driven by the increase in terrorist acts around the world.
- The rise of baggage scanners that use X-ray technology is also fueled by rising airport security costs. For instance, the Airport Authority of India (AAI) has agreed to pay a large sum of money to a foreign company to supply luggage scanners, which would be deployed at nine Indian airports, including Kolkata and Chennai. In the upcoming years, over USD 400 billion will be invested in airport developments in Asia-Pacific, followed by North America and Europe.
- Moreover, in the previous year, In order to support its Airport Self Service Checkpoint project for the US Department for Homeland Security (DHS), the Australian company Micro-X, which creates cold cathode X-ray technology for health and security

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markets, announced that it had received funding commitments of USD 23 million.

- However, the adoption of the X-ray security scanner industry has been significantly impacted by the spread of the new coronavirus. Since all of the countries' international borders were blocked as a result of the pandemic, the aviation industry has suffered the most. The travel ban was implemented to stop the virus's spread.
- The commercial adoption of X-ray security scanners has been significantly impacted by the proliferation of COVID-19. The epidemic caused the aviation industry to suffer more than any other sector as international borders started to close. The travel restrictions were put in place to stop the virus's spread. IATA reports that Europe experienced the largest YoY revenue passenger kilometer change on international routes (at -99%, followed by Africa at -98.8%). As a result, x-rays are increasingly less frequently used for passenger screening.

X-ray Security Scanner Market Trends

Aviation and Transportation Segment to Occupy Significant Share in the Market

- X-ray security scanners have been widely used in the industry to scan persons, air cargo, small and large pieces of luggage, packages, and other objects to uncover any hidden explosives or other dangerous materials as well as to look for the smuggling of any things that are prohibited.
- Global investments have been made continuously throughout the years to upgrade the transportation system in urban areas, and more metro, rail, and monorail projects have been launched to reduce the strain on the system. The need to protect these Metrorail systems, which have attracted significant investment in China, India, and other nations, has pushed for more adoption and use of these security scanners in the transportation sector.
- The market for X-ray security scanners is also advancing due to the expanding commerce activities. Merchandise exports climbed in volume by 10.8% in 2021, up from 8.0% in March, and then by 4.7% in 2022, according to a World Trade Organization (WTO) report. The expansion of this sector is also being aided by the development in criminal activities like smuggling that occur when big commodities are transported from seaports and airports.
- Any failure to identify threats in mass transit systems, such as subway or railroad systems, may result in expensive repairs, delays in operation and timely functioning, disgruntled passengers and employees, mishandled baggage, lost lives, and significant revenue losses as the number of airports and transportation hubs increases globally. As a result, over the course of the forecast period, the market for x-ray security scanners is anticipated to rise rapidly.
- In addition, the Statistics Bureau Japan reports that 8.1% of the families polled spent an average of JPY 1,000(USD 6.64)to 2,999(USD 19.92) via e-money transfers on bus and train travel in the previous year. The average amount all surveyed households spent on public transportation in the same year was roughly JPY 2,844(USD 18.89). The market expansion for X-ray security scanners will be further fueled by the ongoing investments in transportation.
- Further addressing the demand for improved capabilities of x-ray scanners is the development and application of 3D imaging capabilities. The market demand for new x-ray security scanners is anticipated to be significantly influenced by them.

Asia-Pacific to Witness Major Growth

- Due to increased metro, rail, and monorail projects being undertaken to distribute the burden on the urban infrastructure, Asia-Pacific is predicted to experience the fastest growth during the forecast period. This is due to ongoing investments being made in upgrading the transportation infrastructure in urban areas around the world.
- It is crucial to protect them because of the significant investments made in metrorail and airport developments in China, India, and other nations. They have advocated for the transportation sector to adopt and deploy these security scanners more

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frequently.

- By 2030, India may invest USD 715.41 billion in urban rail transit, according to Indian Infrastructure. For instance, the Indian government announced in the current fiscal year a USD 32.7 billion capital expenditure in rail, which will propel industry growth in the future.
- The region is also home to one of the nations that has been the target of the most terrorist attacks. Terrorist strikes are a constant menace to nations like Pakistan, Afghanistan, India, Bangladesh, and Sri Lanka. For instance, Jammu and Kashmir, Chhattisgarh, and Jharkhand were the Indian states with the highest terror attacks in the previous year, each reporting 257 incidents (37.8%), Chhattisgarh with 145 incidents (21.4%), and Jharkhand with 69 incidents (10.2%) respectively.
- The market in the region is anticipated to grow at a rapid rate as a result of the region's infrastructure being in a phase of rapid urbanization. DMRC claims that last year, the Delhi Metro improved its baggage scanning system with modern passenger safety and convenience features. Commuters will benefit from increased security and safety thanks to these sophisticated baggage scanners. Additionally, it will be simpler for female and elderly travelers to lift and position bulky things in their bags for scanning.

X-ray Security Scanner Industry Overview

The X-ray Security Scanner Market is concentrated due to a few players with the majority market share. Some key players in the market include L3 Security and Detection Systems Inc., Westminster International Limited, and Rapiscan Systems Inc., among others. Some key recent developments in the market include:

- August 2023 - Astrophysics has explored the human factor in security screening. Security personnel leverage increasingly advanced X-ray scanners and other supporting technologies to enhance operational safety for airlines, freight forwarders, port authorities, government facilities, and public venues.
- February 2023 - The HI-SCAN 6040 CTiX Model S, a more compact version of the popular and well-liked by security operators Computed Tomography (CT) passenger checkpoint scanner, has been launched by Smiths Detection, a world leader in threat detection and security screening technologies.

Additional Benefits:

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

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