

US X-ray Security Screening Market Size study, by Application (People Screening, Product Screening) by End-use (Transit, Commercial, Government) Forecasts 2022-2032

<https://marketpublishers.com/r/UF9D218D79C1EN.html>

Date: June 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: UF9D218D79C1EN

Abstracts

US X-ray Security Screening Market is valued approximately USD 756.72 million in 2023 and is anticipated to grow with a healthy growth rate of more than 8.36% over the forecast period 2024-2032. X-ray security screening involves using X-ray technology to inspect objects and individuals for potential threats or prohibited items. This method is widely applied in various security settings such as airports, government buildings, and border crossings to bolster security measures. In the case of baggage and luggage screening, items are passed through X-ray machines that generate detailed images of their contents. Trained security personnel then analyze these images to identify any suspicious objects such as weapons, explosives, or contraband. Additionally, X-ray scanners also be utilized for body scanning, aiding in the detection of hidden items or anomalies. The growing focus on critical infrastructure protection is a key trend that is supporting to the growth of the US X-ray Security Screening Market. The US government and private sector organizations are investing in X-ray security screening solutions to protect critical infrastructure such as transportation networks, energy facilities, and government buildings. Dual-energy X-ray systems, capable of detecting organic and inorganic materials, are being deployed to enhance security measures.

The primary driver in the US market is the focus on national security. Threats from terrorism, smuggling, and illicit activities necessitate robust security measures, including advanced X-ray screening technologies. Government agencies and private sector organizations invest in X-ray systems to protect critical infrastructure, transportation networks, and public safety. Adherence to regulatory standards set by government agencies such as the TSA and Department of Homeland Security (DHS) is a significant

driving factor. X-ray screening systems must meet stringent regulatory requirements for performance, reliability, and safety, leading to market demand for compliant solutions. In addition, the growing public investments aimed at enhancing existing public safety and security infrastructure to counter threats such as terrorism and illegal immigration are poised to fuel market growth throughout the forecast period. For instance, the U.S. Customs and Border Protection department rigorously scans all incoming containers entering the U.S., regardless of their mode of transportation. This thorough inspection is conducted for radiation detection purposes. Additionally, approximately 5% of all containers are flagged as 'high risk' by this public agency, leading to their scrutiny using X-ray or gamma-ray imaging systems. These developments are anticipated to bolster the demand for X-ray security screening systems in the region in the projected years. However, rising health concerns about the risks of utilizing high frequency scanners along with the high implementation costs of sophisticated x-ray security screening systems are anticipated to impede market expansion over the projected period of 2024–2032.

Major market player included in this report are:

OSI Systems, Inc.

Leidos Holdings, Inc

Aware, Inc.

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Application

People Screening

Product Screening

By End-use

Transit

Commercial

Government

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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