

Europe & CIS Airport Full Body Scanner Market By Technology (Backscatter X-Ray Scanner, Millimeter Wave Scanner), By Airport (Cargo Service Airport, General Aviation Airport, Commercial Airport, Reliever Airport), By Country, Competition, Forecast & Opportunities, 2020-2030F

Market Report | 2025-09-30 | 135 pages | TechSci Research

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Report description:

Market Overview

Europe & CIS Airport Full Body Scanner Market was valued at USD 77.13 Million in 2024 and is expected to reach USD 113.05 Million by 2030 with a CAGR of 6.58% during the forecast period. Europe & CIS airport full body scanner market is experiencing significant momentum as airports prioritize advanced security infrastructure to counter evolving threats and improve passenger screening efficiency. Growth drivers include heightened focus on aviation safety, increasing adoption of millimeter-wave and backscatter technologies for accurate detection, and rising passenger traffic pushing airports to invest in faster and more reliable security systems. Trends shaping the market involve the integration of artificial intelligence and biometric authentication with scanners to reduce false alarms, the shift toward touchless and privacy-enhanced screening solutions, and continuous miniaturization of systems for space efficiency.

Market Drivers

Growing Passenger Traffic Demands

The rapid growth in global air travel has created intense pressure on airports to handle higher passenger volumes without compromising safety. Full body scanners are emerging as a critical solution, offering quick and efficient screening processes that detect concealed weapons, explosives, and prohibited items with minimal delay. Airports face growing expectations from travelers for seamless yet secure journeys, which makes advanced scanners valuable in balancing convenience and protection. The increased incidence of sophisticated smuggling attempts and evolving threat types further intensifies the demand for next-generation scanning systems that can identify threats invisible to traditional metal detectors. For instance, in 2024, air travel in the EU demonstrated solid growth, with almost 1.1 billion passengers carried, marking an 8.7% rise from 2023. International

extra-EU transport accounted for 49.3% of all passengers, followed by intra-EU transport at 36.3% and national flights at 14.3%. Passenger traffic recorded consistent year-on-year increases across all months of 2024, with February showing the highest jump at +13.7%.

Key Market Challenges

High Installation and Maintenance Costs

Despite their clear advantages, full body scanners face challenges due to their high initial investment and ongoing maintenance requirements. Airports must allocate substantial budgets for the purchase, installation, and calibration of these systems, which can pose barriers for smaller operators with limited resources. Beyond acquisition, regular servicing, software updates, and compliance upgrades add to the total cost of ownership. These expenses are critical to maintain optimal scanner performance but can significantly burden airport budgets. In some cases, the high costs may delay adoption or lead to reliance on outdated systems that compromise security effectiveness. Moreover, as technology rapidly evolves, airports face the added pressure of replacing older scanners with next-generation models to meet regulatory and operational standards.

Key Market Trends

Integration of Artificial Intelligence in Screening

Artificial intelligence is emerging as a transformative trend in airport full body scanning, enabling enhanced accuracy, efficiency, and speed. AI-powered algorithms analyze scans in real-time to detect prohibited items, reducing reliance on human interpretation and minimizing false alarms. This not only accelerates passenger processing but also ensures greater consistency in threat detection. AI integration allows scanners to learn from vast data sets, improving their ability to identify new and evolving threats that may bypass traditional detection methods. Automated threat recognition reduces operator workload, lowers error rates, and enhances security reliability. AI also supports predictive analytics, allowing airports to forecast passenger flows and adjust scanner deployment dynamically.

Key Market Players

- L3Harris Technologies, Inc
- Rapiscan Systems, Inc.
- Tek84 Inc.
- Westminster Group Plc
- Smiths Detection Group Limited
- Mistral Solutions Pvt. Ltd.
- LINEV Group
- Brijot Imaging Systems
- Nuctech Technology Co., Ltd.
- Braun and Company Limited

Report Scope:

In this report, Europe & CIS Airport Full Body Scanner Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Europe & CIS Airport Full Body Scanner Market, By Technology:
 - o Backscatter X-Ray Scanner
 - o Millimeter Wave Scanner
- Europe & CIS Airport Full Body Scanner Market, By Airport:
 - o Cargo Service Airport
 - o General Aviation Airport
 - o Commercial Airport
 - o Reliever Airport
- Europe & CIS Airport Full Body Scanner Market, By Country:
 - o Germany
 - o Russia
 - o France

- o Spain
- o Italy
- o United Kingdom
- o Poland
- o Rest of Europe & CIS

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in Europe & CIS Airport Full Body Scanner Market.

Available Customizations:

Europe & CIS Airport Full Body Scanner Market report with the given market data, Tech Sci Research offers customizations according to the company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

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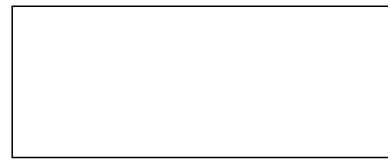
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