

Passenger Security Equipment Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Baggage Inspection System, Video Surveillance, Intrusion Detection And Prevention, People Screening System, Biometric Solutions, Other Types), By Investment (New Demand, Up-Gradation), By End User

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Abstracts

The Passenger Security Equipment Market is valued at USD 69.5 billion in 2025 and is projected to grow at a CAGR of 9.4% to reach USD 155.5 billion by 2034. The global passenger security equipment market is experiencing significant growth, driven by increasing concerns over safety in airports, railway stations, bus terminals, and other public transportation hubs. With rising threats of terrorism, cyberattacks, and unauthorized access, governments and private transportation operators are investing in advanced security solutions to ensure passenger safety and streamline security procedures. The market includes technologies such as full-body scanners, biometric authentication systems, baggage screening devices, metal detectors, surveillance cameras, and AI-driven threat detection systems. Leading companies such as Smiths Detection, Rapiscan Systems, L3Harris Technologies, and Thales are focusing on the development of next-generation security screening solutions that enhance efficiency while minimizing passenger inconvenience. The integration of artificial intelligence (AI) and machine learning in security equipment is transforming threat detection by improving accuracy, reducing false alarms, and enhancing real-time surveillance capabilities. As global passenger traffic continues to rise, security agencies and transportation authorities are under increasing pressure to implement robust, automated, and non-intrusive security measures. The passenger security equipment market has witnessed notable advancements in biometric security and AI-powered

screening systems. The widespread adoption of facial recognition technology has significantly improved passenger identification processes, reducing wait times at security checkpoints in airports and transit hubs. AI-driven automated threat detection systems have enhanced screening accuracy by identifying prohibited items with greater precision, reducing the need for manual intervention. The implementation of 3D computed tomography (CT) scanners in baggage screening has further improved security efficiency, allowing passengers to pass through checkpoints without removing liquids and electronic devices. Cybersecurity measures have also been strengthened to protect sensitive passenger data and prevent potential cyber threats targeting biometric authentication systems and cloud-based security infrastructure. Additionally, smart surveillance networks with real-time analytics and predictive threat assessment capabilities have been deployed in major transportation hubs, enabling proactive security responses. However, privacy concerns surrounding biometric data collection and usage have emerged as a significant issue, prompting regulatory bodies to implement stricter data protection policies. The passenger security equipment market is expected to see further innovation with the integration of contactless security screening and AI-powered behavioral analytics. Touchless security checkpoints using millimeter-wave imaging and AI-driven anomaly detection will enhance passenger screening efficiency while reducing physical interactions. The expansion of blockchain-based digital identity verification systems will improve security authentication, allowing passengers to use decentralized digital credentials for seamless travel. Smart sensor-based crowd monitoring and AI-assisted risk assessment will enable real-time identification of suspicious behavior, enhancing preemptive security responses. Additionally, autonomous security robots equipped with facial recognition and threat detection capabilities are expected to play a larger role in patrolling high-traffic areas and securing public spaces. As regulatory bodies continue to emphasize security and privacy compliance, the adoption of privacy-preserving AI models and encrypted biometric databases will become a key focus for market players. With the continued rise in global travel and evolving security challenges, the demand for cutting-edge, AI-driven security solutions will remain a priority for transportation authorities worldwide.

Key Insights Passenger Security Equipment Market

Expansion of Biometric Security Systems: Airports and transit hubs are increasingly deploying facial recognition, fingerprint scanning, and iris recognition for seamless and secure passenger identification.

Integration of AI-Powered Threat Detection: AI and machine learning are enhancing security screening accuracy by automating threat detection, reducing

human error, and optimizing screening processes.

Adoption of Contactless Security Screening: Touchless security systems using millimeter-wave imaging and biometric authentication are improving passenger flow while ensuring hygiene and safety.

Deployment of 3D CT Scanners for Baggage Screening: Advanced baggage screening technologies are enabling passengers to pass security without removing liquids and electronics, improving checkpoint efficiency.

Rise of Smart Surveillance & Predictive Analytics: AI-driven surveillance networks with real-time analytics are enhancing situational awareness and enabling proactive security threat assessment.

Rising Global Passenger Traffic & Security Concerns: Increasing travel volumes and evolving security threats are pushing transportation authorities to invest in advanced security solutions.

Government Regulations & Compliance Mandates: Stricter security policies and international aviation safety regulations are driving the adoption of next-generation passenger screening technologies.

Technological Advancements in AI & Machine Learning: Innovations in AI, big data analytics, and computer vision are improving threat detection and security monitoring capabilities.

Growing Need for Cybersecurity in Passenger Data Protection: As biometric and cloud-based security systems become more widespread, robust cybersecurity solutions are needed to prevent data breaches and cyberattacks.

Privacy & Data Protection Concerns: The increasing use of biometric authentication and AI-driven security systems has raised concerns over passenger data privacy, prompting calls for stricter regulations and ethical use of surveillance technologies.

Passenger Security Equipment Market Segmentation

By Type

Baggage Inspection System

Video Surveillance

Intrusion Detection And Prevention

People Screening System

Biometric Solutions

Other Types

By Investment

New Demand

Up-Gradation

By End User

Airport

Railway Station

Seaports

Bus Station

Other End Users

Key Companies Analysed

Siemens AG

Raytheon Technologies Corporation

Lockheed Martin Corporation

Intel Corporation

Honeywell International Inc.

WESCO International

Safran Group

Collins Aerospace

Texas Instruments Incorporated

L3Harris Technologies

Leidos Holdings Inc.

Motorola Solutions

Adani Group

Microchip Technology Inc.

Xilinx Inc.

Smiths Detection Group Ltd.

FLIR Systems Inc.

SITA (Soci t  Internationale de T l communications A ronautiques)

OSI Systems Inc.

Axis Communications AB

Kapsch TrafficCom AG

Rapiscan Systems Inc.

Bosch Building Technologies

The Infinova Group

Mantra Softech (India) Pvt. Ltd.

Genetec Inc.

Autoclear LLC

ORBCOMM Inc.

Advanced Perimeter Systems Ltd.

Cypress Semiconductor Corporation

Nuctech Company Limited

Passenger Security Equipment Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Passenger Security Equipment Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are

analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Passenger Security Equipment market data and outlook to 2034

United States

Canada

Mexico

Europe — Passenger Security Equipment market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Passenger Security Equipment market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Passenger Security Equipment market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Passenger Security Equipment market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Passenger Security Equipment value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Passenger Security Equipment industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Passenger Security Equipment Market Report

Global Passenger Security Equipment market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Passenger Security Equipment trade, costs, and supply chains

Passenger Security Equipment market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Passenger Security Equipment market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Passenger Security Equipment market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Passenger Security Equipment supply chain analysis

Passenger Security Equipment trade analysis, Passenger Security Equipment market price analysis, and Passenger Security Equipment supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Passenger Security Equipment market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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