

Airport Cabin Baggage Scanner Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2026 - 2035

Market Report | 2026-01-23 | 180 pages | Global Market Insights

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Report description:

The Global Airport Cabin Baggage Scanner Market was valued at USD 2.1 billion in 2025 and is estimated to grow at a CAGR of 7.4% to reach USD 4.4 billion by 2035.

Market growth is driven by rising global air travel volumes, tighter aviation security standards, rapid adoption of advanced imaging technologies, and increasing investments in airport infrastructure upgrades. Growth trends indicate that market expansion is primarily supported by the replacement of legacy systems rather than first-time installations, as airports redesign security checkpoints to accommodate higher passenger throughput while enhancing detection accuracy. A coordinated push from regulatory bodies, combined with advancements in artificial intelligence and computed tomography technology, is reshaping security screening operations. AI-enabled CT scanners are improving threat detection consistency, reducing false alarms, and accelerating image analysis, which improves checkpoint efficiency and reduces staffing strain. As passenger volumes continue to rise, airports are increasingly investing in next-generation screening systems to balance operational efficiency with stringent security requirements, accelerating the replacement cycle across global aviation hubs.

The computed tomography scanners segment held 68.6% share in 2025. Market differentiation is increasingly driven by software capabilities, including advanced image reconstruction, material discrimination, and AI-based threat recognition trained on large image datasets. Vendors are offering scalable solutions ranging from compact systems for lower-traffic facilities to fully automated screening lanes with integrated remote inspection and workflow optimization. Procurement patterns are shifting from individual scanners to complete screening lane ecosystems, favoring suppliers that deliver integrated hardware, software, and long-term service support to improve operational performance and lifecycle value.

The standalone screening units generated USD 1.1 billion in 2025, holding the largest share within deployment types. Airports are increasingly adopting automated screening configurations that integrate CT scanners with tray handling automation to improve passenger processing rates and reduce congestion. These systems support higher throughput, lower inspection delays, and more consistent screening performance. Manufacturers are focusing on developing reliable, high-capacity standalone units with minimal downtime, seamless system integration, and robust automation to meet the evolving needs of high-traffic aviation environments. North America Airport Cabin Baggage Scanner Market accounted for 38.8% share in 2025, making it the leading regional market.

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Growth in the region is supported by strong regulatory alignment, sustained funding, and coordinated modernization initiatives across airports of varying sizes. The market is characterized by accelerated replacement of conventional X-ray systems with advanced CT-based solutions, alongside broader investments in digital infrastructure, workforce optimization, and remote screening capabilities. These factors are contributing to consistent demand for advanced baggage screening technologies and long-term market stability.

Key companies operating in the Global Airport Cabin Baggage Scanner Market include Thales Group, Smiths Detection (Smiths Group), OSI Systems (Rapiscan Systems), Leidos Holdings, Inc., Nuctech Company Limited, L3Harris Technologies, Astrophysics Inc., Analogic Corporation, Vanderlande Industries, CEIA S.p.A., Autoclear LLC, Garrett Metal Detectors, Safeway Inspection Systems, VOTI Detection, Gilardoni S.p.A., Aventura Technologies, Surescan Corporation, Adani Systems, Inc., Unisys Corporation, NEC Corporation, Honeywell International, Bosch Security Systems, Thruvision, and QinetiQ Group. Companies in the airport cabin baggage scanner market are strengthening their market position by investing in advanced AI-driven detection software and next-generation CT imaging technologies. Manufacturers are expanding integrated product portfolios that combine hardware, automation, and analytics to deliver complete screening solutions. Long-term service contracts, system upgrades, and lifecycle support are being prioritized to secure recurring revenue.

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Comprehensive Market Analysis and Forecast

- Industry trends, key growth drivers, challenges, future opportunities, and regulatory landscape
- Competitive landscape with Porter's Five Forces and PESTEL analysis
- Market size, segmentation, and regional forecasts
- In-depth company profiles, business strategies, financial insights, and SWOT analysis

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