X-Ray Baggage Scanner

AT6550T

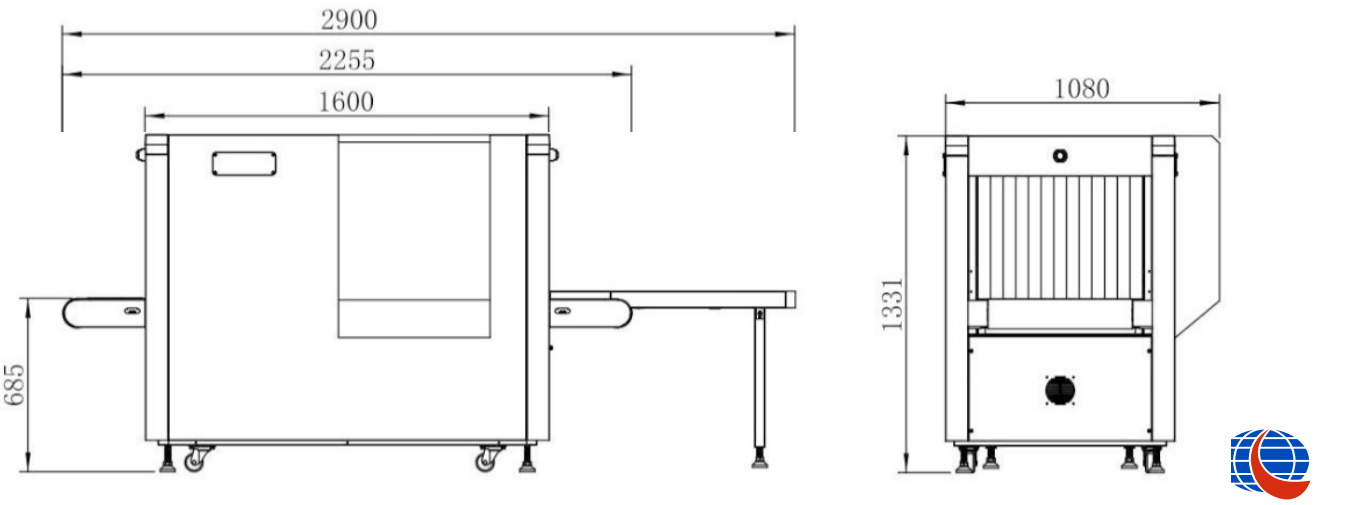


Introduction

Safeway System AT6550T (3 generators + Triple view) X-ray security inspection equipment is a multi-source and multi-view X-ray inspection equipment independently developed by Safeway Inspection System Company limited. It adopts three independent X-ray sources to scan and image the inspected objects from three different angles (horizontal, vertical, and lateral); No matter the inspected objects are placed at any angle, the object can be outlined in three dimensions, and the shape of the object can be effectively identified, significantly reducing the risk of missed dangerous items and false alarms. There is no need to flip the objects or scan them multiple times, which improves the efficiency of security inspections.

The internal structure of Safeway System AT6550T device is advanced and perfectly designed, including three independent X-ray generators and corresponding detector arrays. The powerful image processing system works for receiving, fusing, and processing data streams from three perspectives, generating clear, easy-to-interpret fused images or split-screen display images, and providing outstanding material identification and auxiliary analysis functions.

Dimensional Drawing



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Product Details

Technical Features

Normal single/dual view	3 generators +Triple view	Advantages
1-2 fixed views	Horizontal + vertical + lateral Three X-Ray source synchronous imaging	Forming a three-dimensional scanning network, the detection rate of upright blades, overlapping electronic devices, liquid contraband, etc. is increased to > 99%
Multiple layers of materials to false alarms or detection	Multi-view and in-depth penetration, automatic alarm in suspicious areas from three views	significantly reduce false alarms and hidden dangerous items

Advantanges

- **Intelligent analysis(AI)**:Using three-view stereoscopic visual analysis and density algorithm, massive images are converted into precise decisions. Rapid intelligent analysis can assist in identifying conventional contraband (knives, liquids, batteries, etc.), risky objects (abnormal assembly, explosive components, etc.), hidden related objects (disguised dangerous goods), etc.
- **Centralized and remote management platform**: Quickly catch scanned images and data from separate x-ray machines to the central and remote office for real-time surveillance and date management, and ensure double layers of security inspection and decisions.
- **Reduce blind spots/occlusions:** Scanning at three angles can significantly reduce the problem of stacking items and provide more comprehensive insights for hidden materials.
- **Stereoscopic perception:** Data from three perspectives can be fused and processed, and intuitive three-dimensional images can help operators better judge the shape, position and relationship of items, and improve the ability to identify suspicious items (especially explosives, weapons, etc.).
- **Excellent detection rate of contraband:** Combine three perspectives to accurately classify materials; greatly reduce the risk of missed detection due to stacking, occlusion or special placement of items, especially for hidden explosives, weapons, drugs and other threatening items.
- **Improve security inspection efficiency:** Suitable for inspecting large, heavy, and complex luggage, parcels, and cargo; one scan can obtain I nformation from three perspectives without turning the item over or scanning multiple times, speeding up the inspection.
- **Meet the highest security requirements:** Usually used in places with extremely high security requirements, such as high-speed rail subways, key government facilities, large-scale event security, and important logistics hubs.

SAFEWAY SYSTEM

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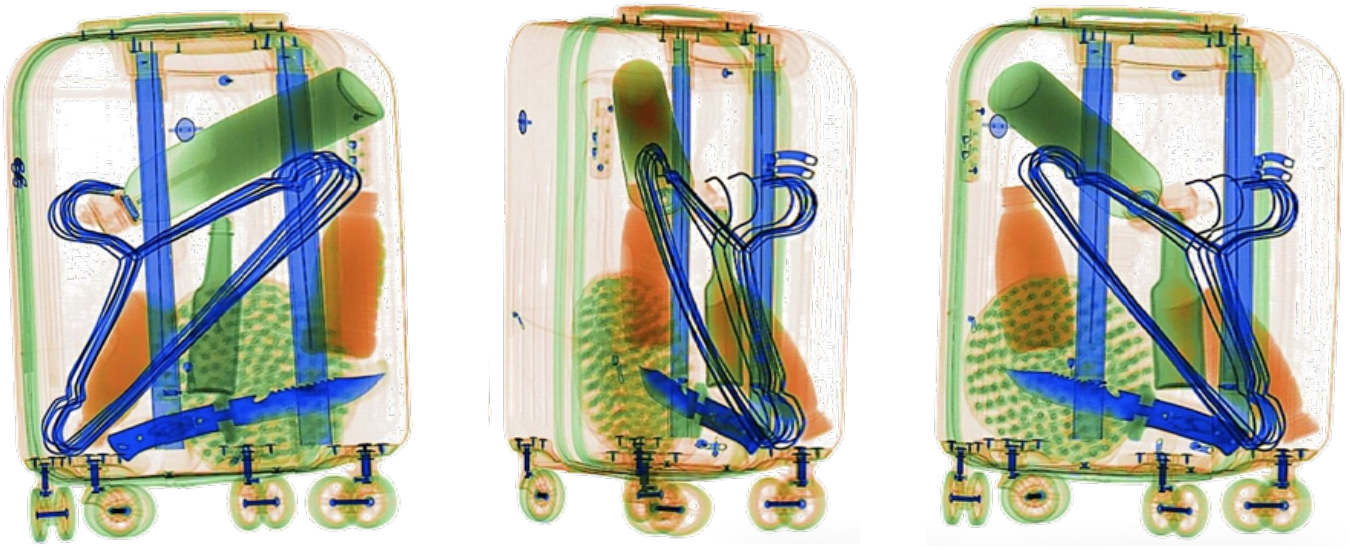
Technical Parameters

Tunnel size	Channel size 650mm (width) * 500mm (height)
Conveyor belt speed	0.22m/s
Maximum load	150kg
Penetration	Penetration Perspective 1: 38mm above, Perspective 2: 38mm above, Perspective 3: 38mm above
Linear resolution	Perspective 1: Φ0.0787mm metal wire, Perspective 2: Φ0.0787mm metal wire, Perspective 3: Φ0.0787mm metal wire
Penetration resolution 0.202mm metal wire	Perspective 1: Φ0.202mm metal wire, Perspective 2: Φ0.202mm metal wire, Perspective 3: Φ0.202mm metal wire
Spatial resolution	Perspective 1: horizontal: Φ1.0mm, vertical: Φ1.0mm, Perspective 2: horizontal: Φ1.0mm, vertical: Φ1.0mm Viewing angle 3: horizontal: Φ1.0mm, vertical: Φ1.0mm
Single inspection dose	less than 10μGy
Ambient dose	Ambient dose equivalent rate less than 1μGy/h (tested at any point 0.1m from the outer surface of the equipment, it meets and exceeds domestic and international health and safety standards)
High-efficiency radiation protection	double-layer staggered, wear-resistant and strong lead curtains, and ultra-thick 2-5mm lead plates to ensure the safety and reliability of the equipment

Installation data

Dimensions (excluding rack)	2255mm (length) * 1080mm (width) * 1331mm (height)
Power supply	220VAC (±10%) 50±3HZ
Power consumption	1.5KW
Digital interface	Tube voltage 80-160KV (adjustable), current 0.3-1.2mA (adjustable)
Cooling/duty cycle	Sealed oil cooling / 100%

Scanned Images



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