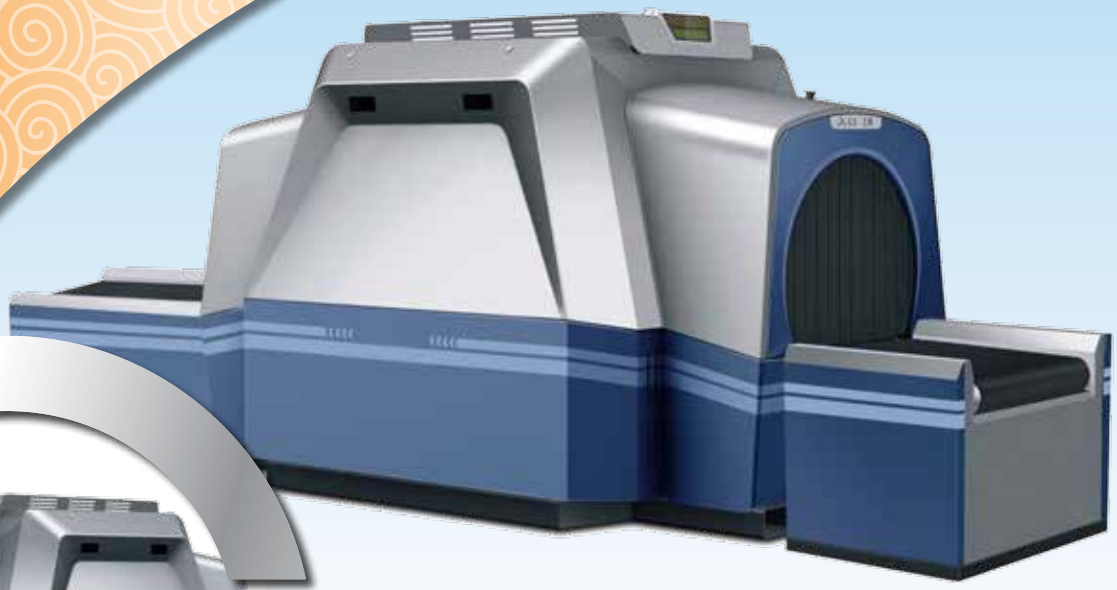
Scan-X XT2080

CT Inspection System



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Introduction

The **Scan-X XT2080 CT Inspection System** is the new dual-energy Computed Tomography (CT) X-ray inspection System designed and produced by Scan-X Security Limited.

The system takes dual-energy CT technology to automatically identify the explosives/drugs hidden in baggage, pinpoint their positions and give alarm. The system also has an independent Digital Radiography (DR) subsystem to produce a high resolution baggage image. Additional 3-D images could also be provided for much more intuitive inspection.

The Scan-X XT2080 is not only suitable for baggage screening in airports, customs, but also in railway stations, government buildings, public activities and other security sensitive areas.

Highlights

- Dual-energy CT technology for explosive/drug automatic identification and alarm
- Pinpoint the position of explosive/drug in the luggage
- High-resolution DR image and CT reconstructed images display at the same time
- 3-D images of all the contents of a bag provided for intuitive inspection
- High image quality with wire resolution of 40AWG and steel penetration up to 32mm
- Large 800mm-diameter tunnel for full size checked baggage
- High throughput: up to 700 packages per hour
- Runs on single phase, reduced size and weight to avoid infrastructure change
- X-ray leakage around the equipment is close to natural background level, which meets all published international health and safety standards and ensures the radiation safety of operators as well as the public
- Ergonomic keyboard and user interface design ensure the efficiency and professional of the X-ray screening operation

SCAN-X

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Scan-X XT2080
CT Inspection System

General Specifications	
Tunnel Dimensions	• 800mm tunnel diameter
Conveyor Height	• 711mm
Conveyor Load	• 200kg (evenly distributed)
Throughput	• 700 packwwages per hour
Wire Resolution	• 40AWG (Φ 0.08mm)
Steel Penetration	• 32mm
CT pixel resolution	• 1.0mm
Display Monitor	• 22" colour monitor / high resolution of 1680x1050

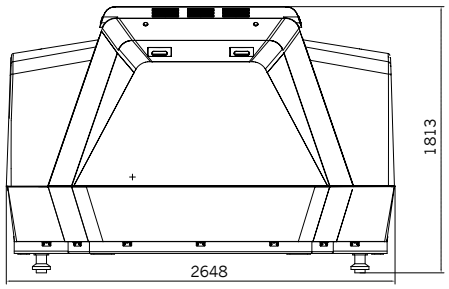
X-Ray Generator	
Anode Voltage	• 160kV
Cooling / Duty Cycle	• Sealed oil bath / 100%

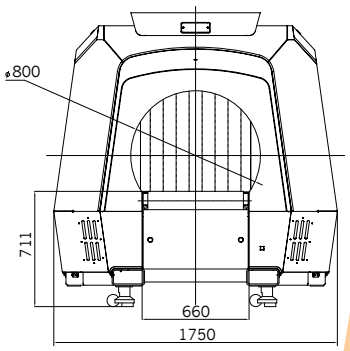
Image Processing System	
Image Enhancement	• Color/BW, Negative, Edge enhancement, General enhancement, Organic/ Inorganic stripping, histogram equalization, etc Zeff and density displayed on demand
ROI % Zoom	• Selectable image zoom regions, 1~16 times enlargement
Data Storage Capacity	• Up to 10,000 images

Health and Safety	
X-ray Leakage	• Conform to the Radiation Protection Standard recommended by IAEA, ICRP and WHO

System Function
Date/time display, Luggage counter, User management, System-on timers, Power on self test, Image storage and query, Built-in diagnostic facility

Installation Data	
Dimensions / Weight	• 2648mm(L)×1750mm(W)×1813mm(H) / 2400kg
Operating Temperature / Humidity	• 0℃ +40℃ / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	• -40℃ +60℃ / 5% ~ 95% (non-condensing)
Power Supply	• Single phrase, 220VAC/110VAC, (-15%~+10%), 50Hz/60Hz ± 3Hz
Power Consumption	• 2.5kVA





Note Specification is based on test piece complies with GB15208.2-2006

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