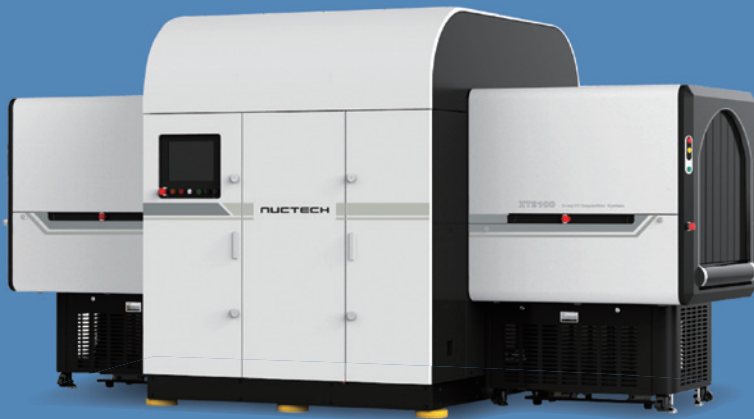


NUCTECH™ XT2100

X-ray CT Inspection System

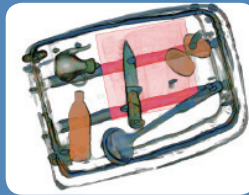
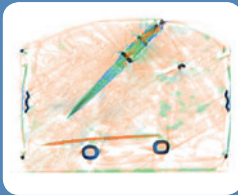


Creating a safer world



NUCTECH™ XT2100 is a newly developed CT (Computed Tomography) inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines NUCTECH's dual-energy material discrimination technology with the spiral CT technology together. With multidimensional information acquired by the system, it realizes automated explosives/ narcotics detection and alarm with higher probability of detection and lower false alarm rate.

Designed with a larger tunnel size and a higher throughput, the XT2100 is an ideal security solution for airports, customs, stations, governmental buildings, public activities, etc.



Technical Features

- The throughput is up to 1080BPH (0.3m/s). Meter-wide tunnel satisfies most checked baggage inspection and BHS integration requirements and applies to various scenes.
- Discriminating different materials and detecting various contraband like explosives and narcotics with higher probability of detection and lower false alarm rate, achieved CAAC and ECAC EDS Std. 3.
- Inspecting objects in 360 degrees free of blind corners and identifying the contraband more easily with a more intuitive image.
- Easier to detect the contraband concealed in interlayers or placed in a particular angle.
- Customized design according to BHS manufacturer's interface protocol, capable of integrating and communicating with any brand of BHS manufacturers.
- With the dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- Achieving the TIP in 3D images and providing effective methods for training and evaluating operators.
- Realizing remote resolutions, operations and diagnoses and sharing the data between different areas with the help of cloud computing technology.
- Modular design enables easy replacement of key components and convenient maintenance, reducing time and labor.
- Providing 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping making decisions more effectively and efficiently.

NUCTECH™ XT2100

X-ray CT Inspection System

Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 1004mm, Max. Height: 890mm
Max. Baggage Size	2000mm(L)×1000mm(W)×600mm(H) 2000mm(L)×750mm(W)×750mm(H)
Conveyor Height	848mm
Conveyor Load	200kg
Throughput	1080BPH
CT Spatial Resolution	2mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

Health and Safety

X-ray Leakage	Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO
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Image Processing System

3D Image Processing	Color / BW, Negative, Edge enhancement, Super penetration, Organic stripping, Inorganic stripping, 3D mark, 3D measurement, Threat single display, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Over 10,000 images

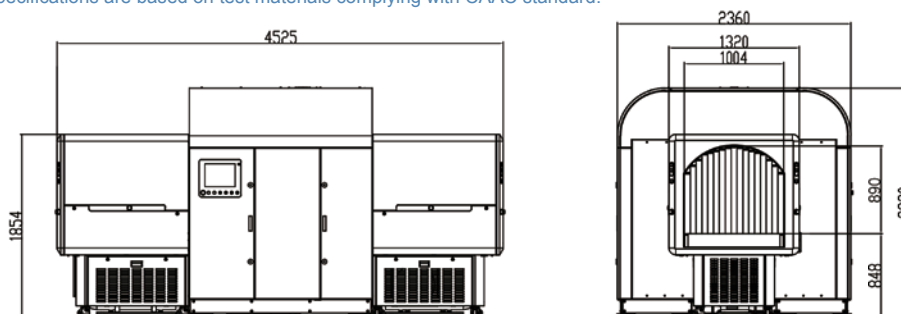
System Functions

Date / Time display, Luggage counter, User management, System-on timers, Power-on self-test, Image Storage and query, Built-in diagnosis.

Installation Data

Dimensions / Weight	4525mm(L)×2360mm(W)×2320mm(H) / <6000kg
Operating Temperature / Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40°C ~ +60°C / 5% ~ 95% (non-condensing)
Power Supply	Three-phase, 380VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	12kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.



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NUCTECH AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2015)
NUCTECH AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (GB/T28001-2011)

