

NUCTECH™ XT2100

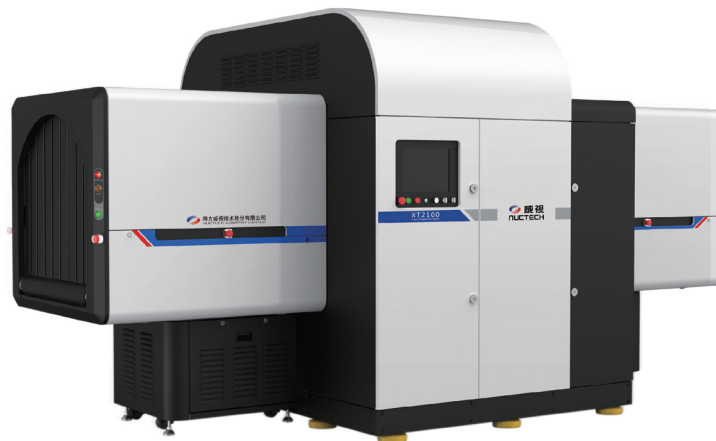
X-ray CT Inspection System



Introduction

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.



EN

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Technical Features

• Broadest Inspection Range

Automated detection of various contraband like explosives and narcotics, satisfying security needs for airports, customs, etc.

• Exclusive Dual-Energy Material Discrimination Technology

Discriminating different materials with higher probability of detection and lower false alarm rate, which has achieved CAAC certification and the ECAC for EDS standard 3.

• High-resolution 3D Images

Inspecting objects in 360 degrees free of blind corners and identifying the contraband more easily with a more intuitive image.

• Distinct CT Slice Images

Easier to detect the contraband concealed in interlayers or placed in a particular angle.

• Compatible and Integrated with any interface

Customized design according to BHS manufacturer's interface protocol, capable of integrating and communicating with any brand of BHS manufacturers.

• Accurate and Abundant Color Information

With the dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.

• Powerful Network Management

Realizing remote resolutions, operations and diagnoses and sharing the data between different areas with the help of cloud computing technology.

• Practical 3D TIP (Threat Image Projection) Function

Overcoming the obstacle of TIP in 3D images and providing effective methods for training and evaluating operators.

• Convenient Maintenance Design

Modular design enables easy replacement of key components and convenient maintenance, reducing time and labor.

• Innovative Software Functions

Exclusively providing 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping making decisions more effectively and efficiently.



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(even distributed)
Conveyor Speed / Throughput	0.3 m/s /1080 BPH
Noise	<65dB
CT Spatial resolution	2mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

X-ray Generator

Anode Voltage	180kV
Cooling / Duty Cycle	Water / 100%

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.
Image Zoom	1 ~ 64 times enlargement
Data Storage Capacity	Over 10,000 images

Health and Safety

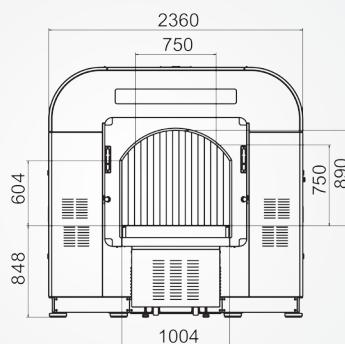
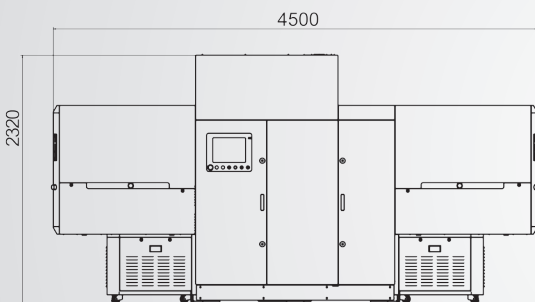
X-ray Leakage	Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO
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System Functions

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

Installation Data

Dimensions / Weight	4500mm(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	8kVA

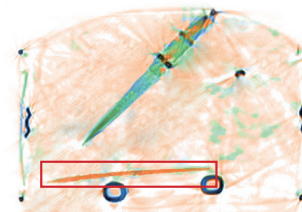
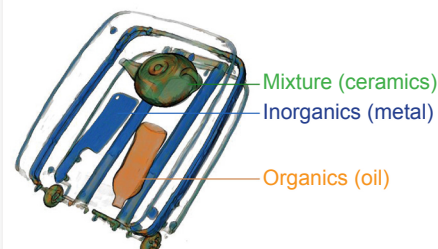


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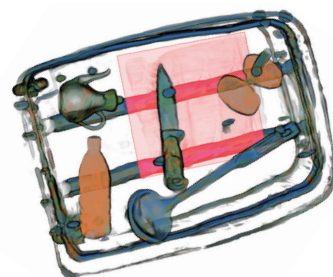
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NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2008)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (GB/T28001-2011)



CT Slice Image



3D Image

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