

NUCTECH NRCT1000-YW

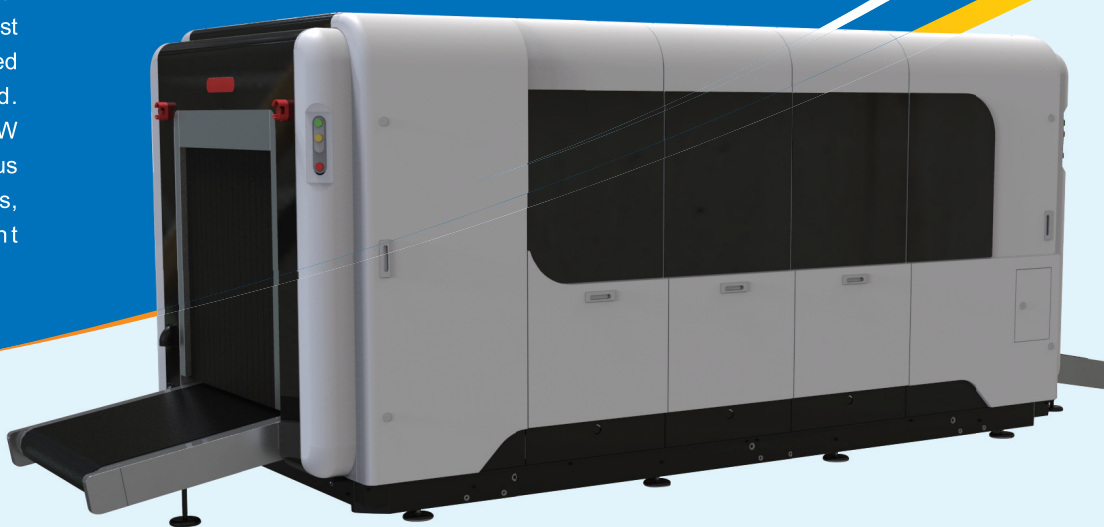
X-ray CT Inspection System

Introduction

NUCTECH NRCT1000-YW X-ray CT Inspection System is a new generation stationary CT (Computed Tomography) inspection system developed and produced by NUCTECH COMPANY LIMITED. Innovatively utilizing non-rotating-gantry CT scanning technology and dual-energy CT imaging technology, the system can provide 3D images, 2D images and CT slice images of the inspected items as well as detect contraband items automatically.

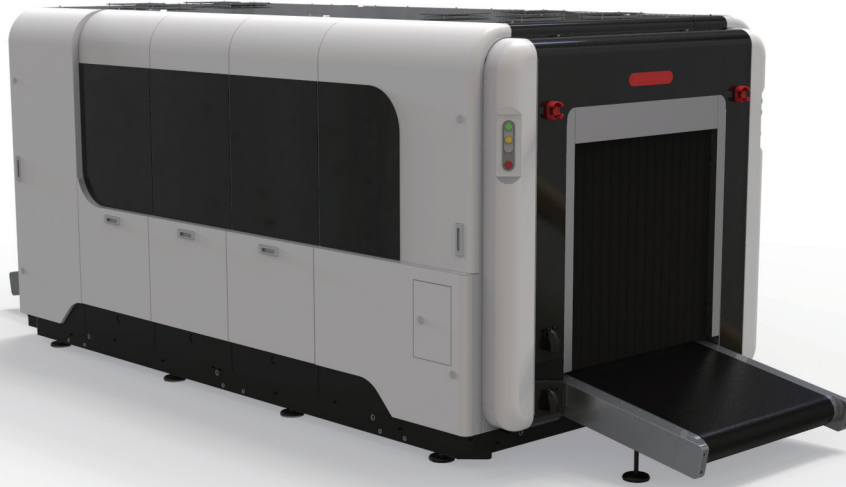
Unlike rotational CT inspection system, NUCTECH NRCT1000-YW with non-rotating gantry has break out the limitation of the gantry on the tunnel size and the speed of the conveyor. It can improve the overall reliability and availability and reduce maintenance costs. Based on dual-energy CT imaging technology, NUCTECH NRCT1000-YW can simultaneously acquire material information such as the equivalent atomic number and relative electron density. Better resolution images, a higher automated detection rate and lower false alarm rate would be generated by the system.

NUCTECH NRCT1000-YW provides advantages including but not limited to large tunnel dimensions, high throughput, fast inspection speed and automated discrimination of contraband. NUCTECH NRCT1000-YW can be widely applied to various locations as airports, customs, stations and government buildings, etc.



Technical Data

Image Type	2D image, 3D image, CT slice image	Conveyor Load	200 kg (evenly distributed)
Image Processing Functions	Colorize, B/W, Negative, Edge enhancement, Surface enhancement, Super penetration	Conveyor Speed	300mm/s \pm 10mm/s
Tunnel Dimensions	1000 mm (W) \times 1000 mm (H)	Power Supply	Three-phase, 380 VAC (\pm 10%) 50Hz/60Hz (\pm 3 Hz)



Technical Features



Non-rotating gantry design

Based on CT imaging with multiple sets of static X-ray generators and detectors, NUCTECH NRCT1000-YW provides large tunnel dimensions and fast conveyor speed, while reducing the equipment weight and improving the reliability and availability.



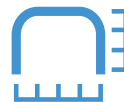
High throughput

NUCTECH NRCT1000-YW conveyor speed is 0.3 m/s with high throughput.



Automated material discrimination

Based on dual-energy CT imaging technology and automated detection algorithms, material information such as the equivalent atomic number and relative electron density can be simultaneously acquired and contraband can be detected automatically, accurately and quickly by NUCTECH NRCT1000-YW with high detection rate and low false alarm rate.



Large tunnel size

Breaking out the limitation of the gantry on the tunnel size, NUCTECH NRCT1000-YW builds a tunnel with nearly 1 meter wide and 1 meter high with inspection tasks of most baggage completed and baggage jams avoided effectively.



High resolution images

Imaging with non-rotating-gantry CT technology, NUCTECH NRCT1000-YW can generate 3D images, 2D images and CT slice images with higher resolution.



Low maintenance costs

Without rotating gantry and other moving parts, NUCTECH NRCT1000-YW is easy for maintenance and with low maintenance costs afforded.

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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)

NUCTECH COMPANY LIMITED

Address: 2/F Block A, Tongfang Building,
Shuangqinglu, Haidian District,
Beijing 100084, P.R.China

Tel: +8610 62780909

Fax: +8610 62788896

Http: //www.nuctech.com