

NUCTECH™ Kylin

X-ray CT Inspection System

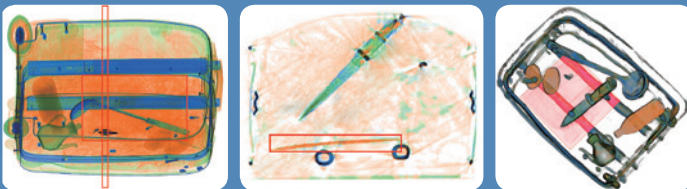


Creating a safer world



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

Designed with a larger tunnel size and a higher throughput, Kylin is an ideal security solution for airports, Customs, critical infrastructures, governmental buildings, public activities, etc.



Technical Features

- Automated detection of various contraband like explosives, liquid explosives and narcotics, satisfying security needs for airports, Customs, etc.
- Discriminating different materials and detecting various contraband like explosives and narcotics with higher probability of detection and lower false alarm rate, achieved ECAC EDSCB Standard C2.
- Inspect objects in a 360-degree view, free of blind corners and identify contraband easier and with a more intuitive image.
- Easier to detect contraband concealed in layers or placed at a particular angle.
- Generates high-resolution DR images, and identifies small thin objects like matches and lighter cores.
- With dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- Achieve the TIP in 3D images and provides effective methods for training and evaluating operators.
- Realizes remote resolutions, operations and diagnoses and shares data between different areas with the help of cloud computing technology.
- Modular design enables easy replacement of key components and convenient maintenance to reduce time and labor.
- Provides 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping to make accurate decisions more effectively and efficiently.
- Capable of integrating and communicating with any brand of ATRS manufacturers.

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Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 624mm, Max. Height: 420mm
Max. Baggage Size	2000mm(L)×620mm(W)×420mm(H)
Conveyor Height	702~717mm
Conveyor Load	160kg
Throughput	720BPH
DR Wire Resolution	40AWG
DR Steel Penetration	40mm
CT Spatial Resolution	2mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

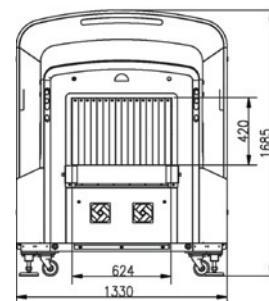
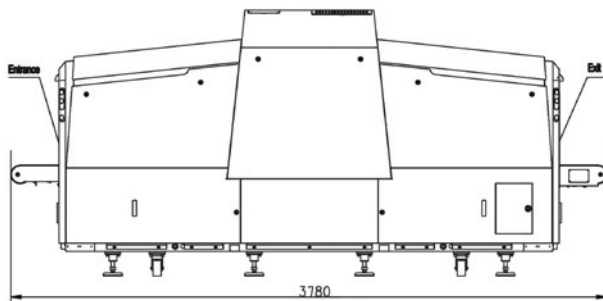
Image Processing System

DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
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	Up to 50,000 images

Installation Data

Dimensions / Weight	3780mm(L)×1330mm(W)×1685mm(H) / 2000kg
Operating Temperature / Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40°C ~ +60°C / 5% ~ 95% (non-condensing)
Power Supply	220VAC / 110VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	3.2kVA

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)

