



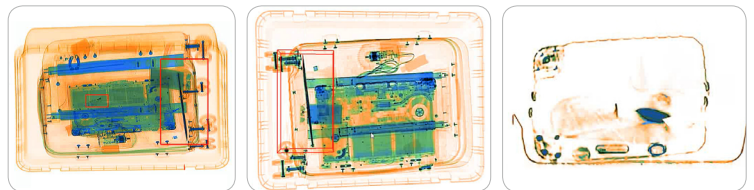
# NUCTECH™ Kylin Ti

## X-ray CT Inspection System



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 C3.
- 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.

## Technical Data

### General Specifications

|                       |                                              |
|-----------------------|----------------------------------------------|
| Tunnel Dimensions     | 624mm(W) x 420mm(H)                          |
| Max. Baggage Size     | 2000mm(L)×620mm(W)×420mm(H)                  |
| Conveyor Height       | 702~717mm                                    |
| Conveyor Load         | 160kg                                        |
| Throughput            | 900TPH                                       |
| 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.

### Health and Safety

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

### System Functions

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

