NUCTECH™ Kylin Ti
X-ray CT Inspection System

NUCTECH™ Kylin Ti is a newly developed X-ray security inspection system for hand luggage. The advanced dual-energy technology deployed, Kylin Ti is capable of detecting explosives, liquid explosives, narcotics, and other contrabands automatically with a lower false alarm rate.

With a high belt speed and compact dimensions, the Kylin Ti is an ideal solution for screening baggage in airport checkpoints, Customs, critical infrastructures, governmental buildings, events, etc.

Technical Features

- ECAC EDSCB C3
- Automatic detection on explosives and other contrabands with high detection rate and lower false alarm rate thanks to the dual- energy technology
- Generates sharp, 360° rotatable 3D image
- Higher efficiency due to the 0.2m/s belt speed, fast image processing, and continuous scanning
- Plug-in Installation due to compact machine dimensions, different voltage options, and standard platform design
- Integrates with Automatic Tray Return Systems and Centralized Image Processing Matrix, seamlessly integrates to existing checkpoint
- AI detection for weapons and customized items

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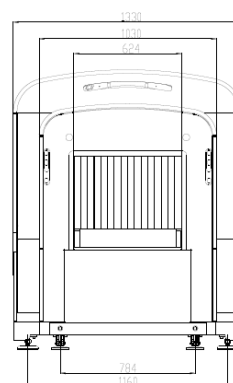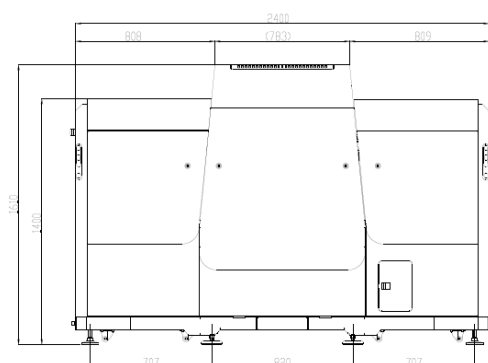
Technical Data

General Specifications

Tunnel Dimensions	624mm(W) x 420mm(H)
Max. Baggage Size	610mm(W) × 410mm(H)
Conveyor Height	687~717mm
Conveyor Load	160kg (evenly distributed)
Belt Speed	0.2m/s
Throughput	828BPH (based on a bag window of 0.67m long tray and 0.2m gap)
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

Image Processing System

Image Processing Function	Laptop Stripping, Three-dimensional Slice, Color/BW, Negative, Enhancement, Threat Mark & Tag, etc.
Threat Image Project	3D TIP function, including FTI & CTI .
ROI & Zoom	Selectable image zoom regions, 16x
Data Storage Capacity	Up to 50,000 images

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	2400mm(L)×1330mm(W)×1610mm(H) / 1550kg
Operating Temperature / Humidity	0℃ ~ +40℃ / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40℃ ~ +60℃ / 5% ~ 95% (non-condensing)
Power Supply	220VAC / 110VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	2.6 kVA