NUCTECH™ CX150180D
X-ray Inspection System

Product Overview

The NUCTECH™ CX150180D X-ray Inspection System comes from the most advanced and best proven CX product platform, and fully inherits and shares improved image quality with a variety of professional image enhancement processing functions, ergonomic and friendly user interface, intelligent networking capabilities and applications, excellent reliability and maintainability.

The CX150180D employs dual-view design, images of both vertical and horizontal views will be shown on monitors, so that the screener operator can effectively eliminate the uncertainty caused by object overlapping and better identify the inner information of the cargoes.

The CX150180D has a large tunnel opening of 1550mm wide by 1805mm high, a low height and durable roller type conveyor, and a high steel penetration up to 50mm, so that it builds an optimal cost-performance solution for pallet cargoes and large luggage screening, and meets all advanced security and customs application demands at airports, seaports, rail transportation stations, and critical infrastructures, etc.

Technology Features

- Excellent image performance with steel penetration up to 50mm, and high objects identification capability complying with EU and China technical standards for aviation security equipment.
- Dual-view x-ray imaging design provides more efficient identification of weapons and contrabands, and meets advanced screening application demands.
- Heavy-duty roller conveyor with load capacity up to 2000Kg, and higher load capacity is customizable.
- Outstanding accuracy of atomic number signatures acquired builds perfect color coding of materials in x-ray images, and offers high level explosives & narcotics detection.
- Ergonomic, icon-marked and customizable special keyboards, as well as friendly and easy-to-use software interface create efficient and optimal user experience.
- Windows based computer platform builds powerful network capabilities with good compatibility and easy extendibility, and gains great advantages in x-ray screening operating by network applications.
- Designed with hermetic radiation safety protection, x-ray leakage around the equipment is close to natural background x-ray dose level, and complies with all general international safety and health standards.

Technical Specifications

General Specifications

Dual-view Imaging	Both vertical and horizontal projecting images
Tunnel Dimensions	1550mm(W) × 1805mm(H)
Roller Conveyor Speed	0.20m/s
Roller Conveyor Height	320mm
Load Capacity	2000Kg

Image Performance

Wire Resolution	38AWG
Steel Penetration	50mm

Image Processing System

Image Enhancement	Color/BW, negative, high/low penetration, organic /inorganic stripping, general enhancement, multi-absorptivity, and suspect material enhancement, etc.
Material Classification	According to atomic number signatures
Zoom	Stepwise/stepless zoom, up to 32 times enlargement
Image Recall	Preceding images recallable
Image Storage Capability	Up to 50,000 images

Miscellaneous Functions

Standard Functions	Time/date display, counters, user management, system-on/X-ray-on timers, power on self-test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and training, etc.
Optional Functions	Explosives/narcotics detection, high-density area alert, Threat Image Projection (TIP)

Health and Safety

X-ray Leakage	Less than 1μGy/hour (5cm from the housing covers)，complying with all general international health and safety standards
Film Safety	Guaranteed for high speed film up to ASA/ISO1600 (33DIN)

Installation Data

Dimensions	5139mm(L)×2732mm(W)×2443mm(H) (Not including entrance & exit passive roller tables)
Weight	Approx. 4112kg
Storage Temperature / Humidity	-40℃ ~+60℃ / 5%~95% (non-condensing)
Operating Temperature / Humidity	0℃ ~+40℃ / 5%~95% (non-condensing)
Power Supply	200VAC~240VAC (-15%~ +10%)，50Hz/60Hz ±3Hz
Power Consumption	3.5kVA

Note: Image performance specifications are based on test piece complying with Civil Aviation Administration of China Standard.

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 MANAGENENT SYSYTEM(GB/T28001-2011)

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