

NUCTECH™ CX180180D

X-ray Inspection System



NUCTECH™ CX180180D X-ray Inspection System is a new generation dual view dual-energy X-ray inspection machine for large parcels as well as pallet cargo.

With its dual view design, images of each view are shown on a dedicated monitor. Dangerous objects and contraband hidden beneath overlapping areas are more likely to be found and located.

It stands out with a more modern and ergonomic design for efficient and professional X-ray screening. With tunnel dimensions of 1850mm width and 1806mm height, it is perfectly suitable for inspecting large luggage, pallet cargoes at airports, Customs, railway stations, ports, logistics companies and warehouses, etc.

Technical Features

- State-of-the-art technology for superior image quality with wire resolution of 36AWG and steel penetration of up to 50mm.
- Threat Image Projection (TIP), an always-ready X-ray system, provides a practical solution for operator performance monitoring and training and effectively reduces missed threats.
- X-ray leakage around the equipment is close to natural background levels to meet all published international health and safety standards.
- Automatic detection and alarm of explosives and drugs.
- Support systematic, continuous and local zoom functions for flexible and quick enlargement of scanned images.
- Images can be saved in common image formats (BMP, JPG and PNG) and be transferred to USB storage devices.
- Ergonomic keyboard and user interface design ensures the efficiency and professionalism of X-ray screening operations.
- Modular design and construction combined with a fully built-in diagnostic facility guarantee the efficiency of equipment maintenance.

Technical Data

General Specifications

Dual-view Imagin	Both vertical and horizontal projecting images
Tunnel Dimensions	1850mm(W)×1806mm(H)
Conveyor Speed	0.2m/s
Conveyor Height	320mm
Max. Load	2000kg

Image Performance

Wire Resolution	36AWG
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
ROI & Zoom	Step / stepless zoom, up to 32 times enlargement
Image Recall	Preceding images recallable
Image Storage Capability	Up to 100,000 images

Installation Data

Dimensions	6336mm(L)×3102mm(W)×3143mm(H)
Weight	5315kg
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	2.5kVA

System 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 detections, high-density area alert, threat image projection (TIP)

Health and Safety

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

Note: Image performance specifications are based on test materials complying with CAAC standard.

