



# NUCTECH™ CX100100DB X-RAY INSPECTION SYSTEM



## Introduction

NUCTECH™ CX100100DB X-ray Inspection System, NUCTECH's new generation product of dual-view dual-energy X-ray inspection machine for inspection of large luggage, baggage and small cargoes. CX100100DB employees dual view design, images of each view will be shown on a dedicated monitor, thus dangerous objects and contrabands hidden beneath overlapping area are more likely to be found and located. It stands out with more modern and ergonomic design for efficient and professional X-ray screening. With the tunnel dimensions of 1010mm width and 1005mm height, it is perfectly suitable for baggage inspection in airports, railway stations, customs and ports, etc.

CX100100DB combined with unsurpassed operation ergonomics, reliability and safety can provide excellent image quality and advanced material classification. CX100100DB offers explosive and drug auto detection as optional.

## Technology Features

- Based on dual-view advanced technology meeting high level security and operational effectiveness demands
- High image quality with wire resolution of 38 AWG and steel penetration of 35mm
- X-ray leakage around the equipment is close to natural background level, which meets all published international health and safety standards and ensures the radiation safety of operators as well as the public
- Automatic detection and alarm of explosives and drugs
- Support stepwise, continuous zoom and magnifier functions to enlarge images
- Images can be saved as general image format, such as BMP, JPG and PNG, and be transferred to USB storage devices
- Ergonomic keyboard and operator interface design ensure the efficiency and professional of the x-ray screening operation
- Modular design and construction combined with full built-in diagnostic facility guarantee the efficiency of equipment maintenance

# Technical Specifications

## General Specifications

Tunnel Dimensions	1010mm(W) × 1005mm(H)
Conveyor Speed	0.20m/s
Conveyor Height	700mm
Max. Load	200kg

## Image Performance

Wire Resolution	38 AWG
Steel Penetration	35mm
Display Resolution	1280 × 1024

## 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 50,000

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

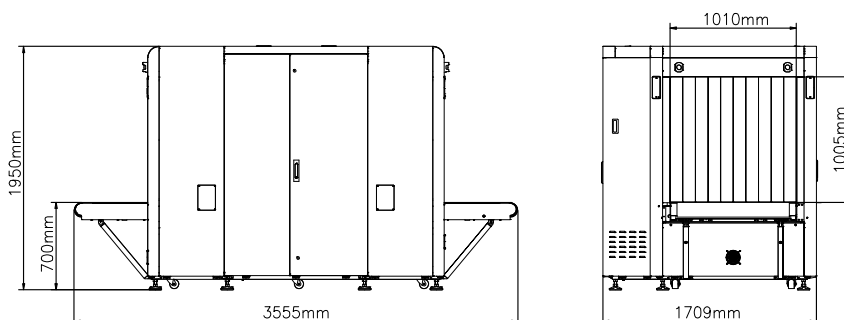
## Health and Safety

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

## Installation Data

Dimensions	3555mm(L) × 1709mm(W) × 1950mm(H)
Weight	1790kg
Storage Temperature / Humidity	-40°C ~ +60°C / 5% ~ 95% (non-condensing)
Operating Temperature / Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Power Supply	220VAC/ 110VAC (-15% ~ +10%), 50 Hz/60Hz ±3Hz
Power Consumption	1.5kVA

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



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