



NUCTECH™ CX100100BI

X-RAY INSPECTION SYSTEM



Introduction

NUCTECH™ CX100100BI X-ray Inspection System, NUCTECH's new generation product for inspection of luggage, baggage and small cargoes, is an advanced dual-energy X-ray security inspection system with tunnel dimensions of 1010mm width and 1005mm height. It stands out with more modern and ergonomic design for efficient and professional X-ray screening and is perfectly suitable for baggage inspection in airports, railway stations, customs, ports, and stadiums, etc.

Combined with unsurpassed operation ergonomics, reliability and safety, CX100100BI can provide excellent image quality and advanced material classification. Multiple enhanced options are available including higher image quality, explosive and drug auto detection, etc.

Technical Features

- High image quality with wire resolution of 38 AWG and steel penetration up to 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
- TIP(Threat Image Projection) provides a practical solution for operator performance monitoring and training
- Support stepwise, continuous and magnifier functions to enlarge images
- Images can be saved as general image format, such as BMP, JPG, GIF and TIFF, and be transferred to USB storage devices
- Ergonomic keyboard and user 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	1005mm(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 100,000

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)

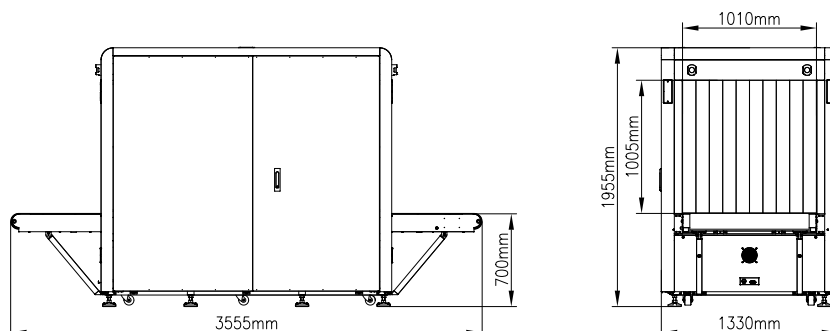
Health and Safety

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) × 1130mm(W) × 1955mm(H)
Weight	1420kg
Storage Temperature / Humidity	-40°C ~ +60°C / 5% ~ 95% (non-condensing)
Operating Temperature / Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Power Supply	100VAC ~ 240VAC (-15% ~ +10%), 50 Hz/60Hz ±3Hz
Power Consumption	15kVA

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



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