NUCTECH™ CX120200D
X-ray Inspection System

Introduction

The NUCTECH™ CX120200D X-ray Inspection System, is specially designed to conduct non-intrusive security inspection toward airline service trolleys. It employs dual energy X-ray imaging technology as well as dual-view design, which offers a much more effective inspection solution towards airline trolleys for aviation industry.

The CX120200D has a tunnel opening of 1250mm wide by 2010mm high, which covers the screening demands for typical full-size and half-size airline trolleys, as well as most user-customized aircraft trolleys and containers. The conveyor system is designed based on the mechanical characteristics of the airline trolleys, in order to guarantee a safe and smooth delivery of the trolley during the inspection process.

Technical Features

- Provide high-efficiency, non-intrusive security inspection for airline trolleys and containers.

- High image quality with wire resolution of 38 AWG and steel penetration of 44mm.

- Dual-view x-ray imaging design provides improved inspection efficiency.

- Specially designed conveyor system with load capacity up to 750kg.

- High throughput up to 144 full-size trolleys per hour.

- The radiation leakage comply with all published international health and safety standards.

Technical Specifications

General Specifications

Tunnel Dimensions	F250mm(W) × 2010mm(H)
Conveyor Speed	0.20m/s
Conveyor Height	400mm
Max. Load	750kg

Image Performance

Wire Resolution	38 AWG
Steel Penetration	44mm
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 64 times enlargement
Image Recall	Preceding images recallable
Image Storage Capability	Up to 100,000

Miscellaneous Functions

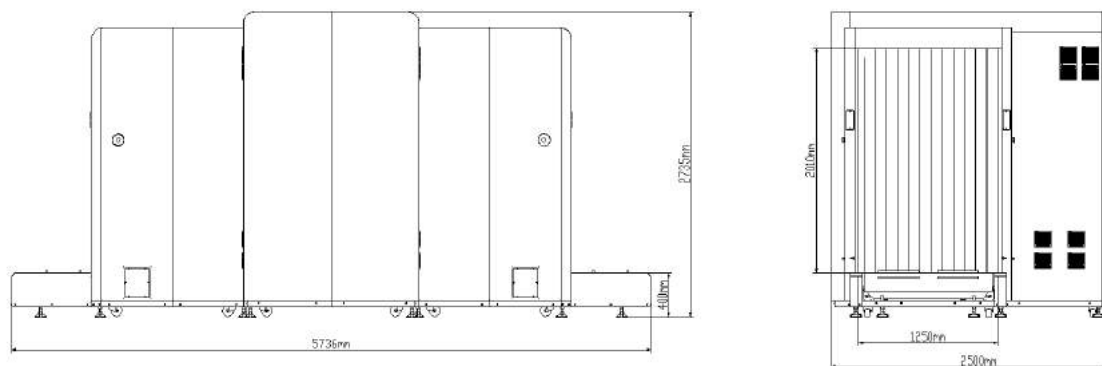|	
Standard Functions	Time/date display, counters, user management, system-on/X-ray-on timers, power on self test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and training, etc.
Optional Functions	Explosives/narcotics detections, high-density area alert, threat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

Health and Safety

X-ray Leakage	Less than 1μSv/h (10cm from the housing), complying with all published international standards
Film Safety	Guaranteed for high speed film up to ASA/ISO1600 (33DIN)

Installation Data

Dimensions	5736mm(L) × 2500mm(W) × 2735mm(H)
Weight	5000kg
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 ~ 240VAC (-15% ~ +10%), 50 Hz/60Hz ±3Hz
Power Consumption	2.5kVA

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

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