



NUCTECH™ CX60120D

X-RAY INSPECTION SYSTEM

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Introduction

The NUCTECH™ CX60120D X-ray Inspection System are designated designed for non-introding inspection of airline trolley. The CX60120D has a tunnel opening of 610mm wide by 1210mm high, suitable for scanning of major trolley models (e.g. ATLAS & KSSU) used by aviation industry.

By applying Dual-View and Dual-Energy imaging technology, the CX60120D can provide high quality image while ensure high screening throughput up to 120 trolleys per hour, offering higher security level and inspection efficiency at the same time.

Combining with our advanced AI inspection system, the CX60120D is capable of automatic recognition of a wide range of contrabands and dangerous goods (e.g. firearms, ammunition, bladed weapons, lithium batteries, etc.), which further reducing the manpower compared to manual inspection process.

Technology Features

- Accomodate to major aviation trolley models (e.g. ATLAS & KSSU)
- High security level ensured by dual-view imaging system
- High throughput up to 120 trolleys per hour.
- High penetration capacity from powerful X-ray generator
- Excellent image quality powered by high-performance detectors
- Compact design, small footprint
- (Optional) AI Inspection system for automatic threat recognition

Technical Specifications

General Specifications

Tunnel Dimensions	610mm(W) × 1210mm(H)
Conveyor Speed	0.20m/s
Conveyor Height	325mm
Max. Load	200kg

Image Performance

Wire Resolution	40 AWG
Steel Penetration	34mm
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	AI inspection system, explosives/narcotics detection, high-density alert, threat image projection (TIP)

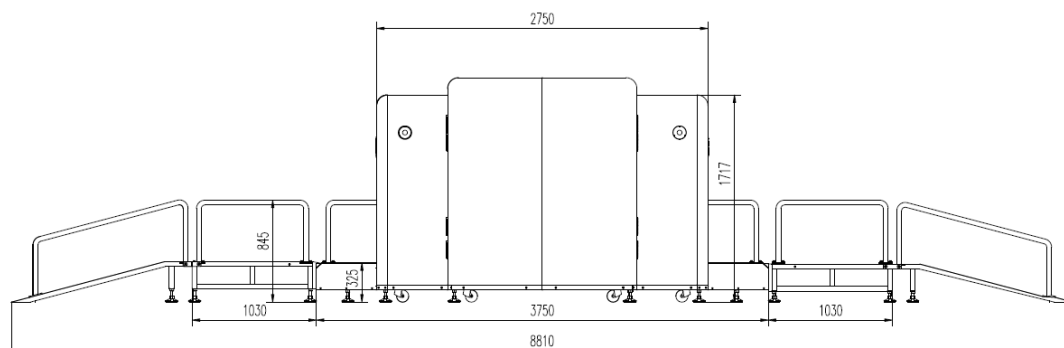
Health and Safety

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	3750mm(L) × 1690mm(W) × 1860mm(H) (w/o entrance/exit sliding slopes)
Weight	Approx. 2300kg (w/o entrance/exit sliding slopes)
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	1.5kVA

Note: Image performance specifications are based on customized european standard test piece.



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NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO 9001:2015)
 NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO 14001:2015)
 NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (OHSAS 18001:2007)

