

NUCTECH CX5030T

X-ray Inspection System



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Introduction

NUCTECH CX5030T X-ray Inspection System is an advanced dual-energy X-ray security inspection system which is newly designed and produced by NUCTECH COMPANY LIMITED. With tunnel dimensions of 534mm width and 328mm height, it is perfectly suitable for inspection for handheld baggage, post parcels and briefcases in government offices, court, mailrooms, embassies, stadiums, exhibitions and other security sensitive areas. Due to its small size with width of only 770mm and weight of 190kg, CX5030T can be installed and transported very easily.

CX5030T combined with unsurpassed operation ergonomics, reliability and safety, can provide excellent image quality and advanced material classification. CX5030T also offers explosive and drug auto detection as optional functions.

Technology Features

- High image quality with wire resolution of 40AWG and steel penetration up to 16mm
- Compact structure and light weight of approximately 190kg, which can be installed and transported easily
- 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, PNG and TIFF, and be transferred to USB storage devices
- Ergonomic keyboard and user interface design ensure the efficiency and professionalism of the X-ray screening operation
- Modular design and construction combined with full built-in diagnostic facility guarantee the efficiency of equipment maintenance



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NUCTECH CX5030T X-ray Inspection System

General Specifications

Tunnel Dimensions	• 534mm (W) x 328mm (H)
Conveyor Speed	• 0.2m/s
Conveyor Height	• 160mm
Max. Load	• 60kg
Wire Resolution	• 40AWG (Φ0.08mm)
Steel Penetration	• 16mm
Display Monitor	• 17" color monitor, high resolution of 1280×1024

X-Ray Generator

Anode Voltage	• 100kV
Cooling / Duty Cycle	• Sealed oil bath / 100%

Image Processing System

Image Enhancement	• Colour/BW, Negative, High/Low penetration, Organic / Inorganic stripping, General enhancement, Multi-absorptivity, Pseudo color, etc.
ROI & Zoom	• Selectable image zoom regions, 1-32 times enlargement
Image Recall	• Preceding images recallable
Data Storage Capacity	• Up to 50,000 images

Health and Safety

X-Ray Dose per Inspection	• Less than 2μSv
X-Ray Leakage	• Less than 1μGy / hr (5cm from the housing)
Film Safety	• Guaranteed for high speed film up to ASA/ISO 1600 (33DIN)

System Functions

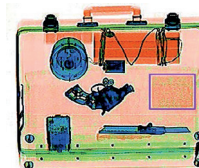
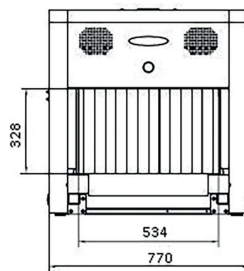
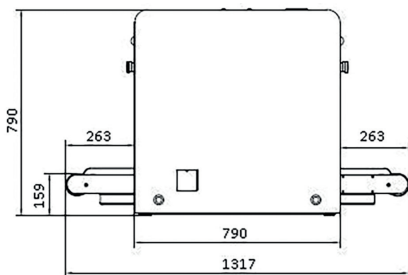
Date/time display, Luggage counter, Operation log, User management, System-on/X-ray-on timers, Power on self test, Built-in diagnostic facility, Dual direction scan, Image recognition training

Options

High-density area alert, Explosives / drugs detection, Threat image projection (TIP), Network kit

Installation Data

Dimensions / Weight	• 1317mm (L) x 770mm (W) x 790mm (H) / 190kg
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	• 0.7kVA



Automatic detection of drugs/explosives: Colored alarm frame shows the system automatic alarm for the 5mm thin explosive

Note: Specification is based on test piece complies with Civil Aviation Administration of China Standard.



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