Introduction

The NUCTECH™ CX7555D X-ray Inspection System is an advanced dual-energy X-ray security inspection system which is newly designed and produced by NUCTECH COMPANY LIMITED.

CX7555D employs 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 755mm width and 555mm height, it is perfectly suitable for briefcases, hand-held baggage, and parcels in airports, customs, railway stations, coach stations, ports, important events, government offices, stadiums, etc.

CX7555D combined with unsurpassed operation ergonomics, reliability and safety, can provide excellent image quality and advanced material classification. CX7555D offers explosive and drug auto detection as optional functions.

Technical Features

- Based on dual-view advanced technology, meeting high level security and operational effectiveness demands
- High image quality with wire resolution of 40 AWG and steel penetration of 38mm
- X-ray leakage around the equipment is close to the 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 and local zoom functions to enlarge the scanning images in flexible and quick ways.
- Images can be saved as general image format, e.g. BMP, JPG and PNG, 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

Advanced material classification: orange for organic, blue for metal and green for mixed material

Automatic detection of explosives & drugs
Technical Specifications

General Specifications
- **Tunnel Dimensions**: 755mm(W) × 555mm(H)
- **Conveyor Speed**: 0.20m/s
- **Conveyor Height**: 750mm
- **Max. Load**: 160kg

Image Performance
- **Wire Resolution**: 40 AWG
- **Steel Penetration**: 38mm
- **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**: 2397mm(L) × 1412mm(W) × 1531mm(H)
- **Weight**: 1100kg
- **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**: 1.2kVA

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