



# NUCTECH™ CX6040BC

## X-RAY INSPECTION SYSTEM

EN



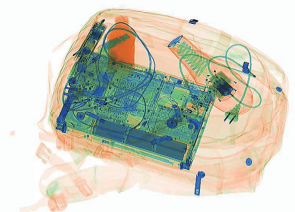
### Introduction

The NUCTECH™ CX6040BC X-ray Inspection System comes from the most advanced and best proven CX product platform, and fully inherits and shares improved image quality with a variety of professional image enhancement processing functions, ergonomic and friendly user interface, intelligent networking capabilities and applications, excellent reliability and maintainability.

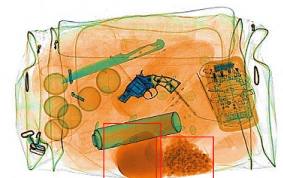
The CX6040BC has a popular tunnel opening of 610mm wide by 420mm high, as well as a modern outlook and compact framework design, and it's the best solution for security and customs requiring screening of hand-held baggage and parcels at airports, rail transportation stations, critical infrastructures and big events, etc.

### Technology Features

- World-leading image quality with high wire resolution of 40 AWG and steel penetration up to 38mm
- Explosives and narcotics detections and alarms according to the atomic number signatures.
- Threat Image Projection (TIP) ready X-ray system, providing a practical solution for operator performance monitoring and training, as well as reducing the probability of threats misses effectively
- X-ray leakage around the equipment is close to natural background level, complying with all international safety and health standards
- Ergonomic keyboard and user interface design ensure the efficiency and professionals of baggage screening operating
- High reliable operating and data storage safety are guaranteed by applications of industrial computer, embedded system, and data access strategy and configurations
- Optimized concept of operations, centralized image identify and storage capability implemented by various network applications
- Modular design and constructions, combined with full built-in diagnostic facilities, make the system maintenance more economic and efficient



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 | 610mm(W) × 420mm(H) |
| Conveyor Speed    | 0.20m/s             |
| Conveyor Height   | 700mm               |
| 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 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)                                                                                                             |

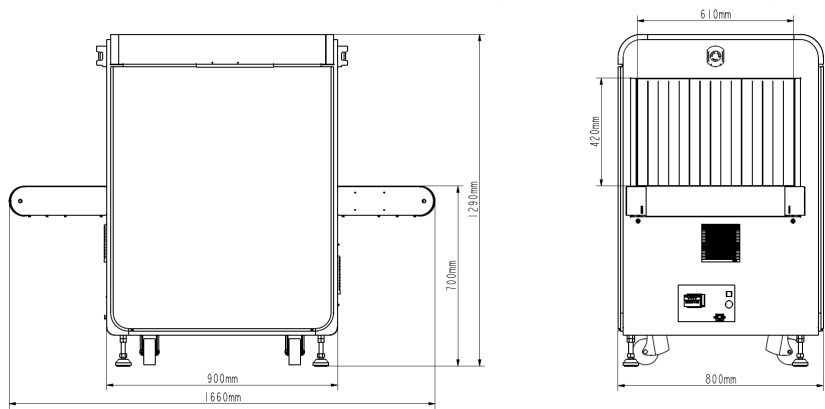
## Health and Safety

|               |                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------|
| X-ray Leakage | Less than 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                       | 1660mm(L) × 800mm(W) × 1290mm(H)               |
| Weight                           | 360kg                                          |
| 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                | 0.8kVA                                         |

Note: Image performance specifications are based on test piece complying with GB15208 Standard (China).



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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)

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