NUCTECH™ BX1000SA
Body Inspection System

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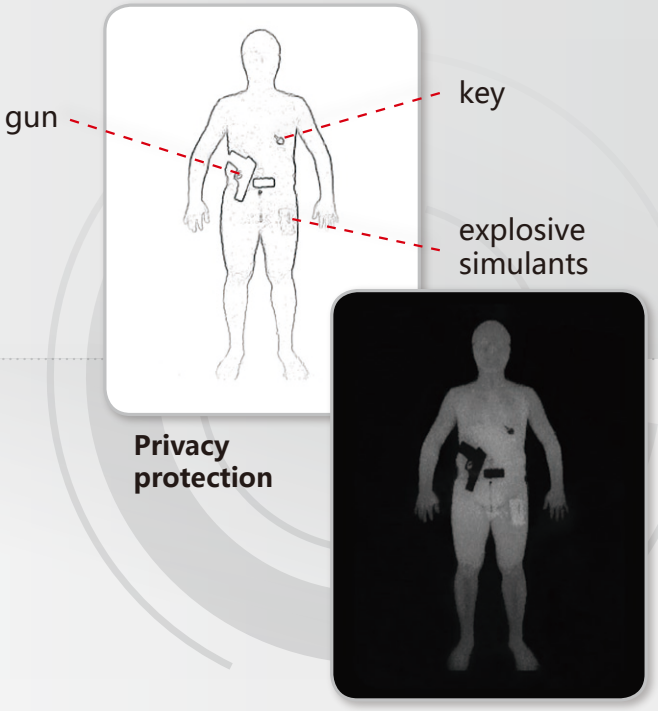


Introduction

NUCTECH™ BX1000SA is a high-performance, efficient people screening solution designed and made by NUCTECH. It employs the latest ultra low-dose X-ray backscatter imaging technology and a unique X-ray flying spot scanning mechanism. The NUCTECH™ BX1000SA ensures high-quality, privacy protected images providing inspection without physical"pat down".The NUCTECH™ BX1000SA can easily find concealed objects and detect non-metal/metal weapons, explosives and drugs hidden under or within clothing. The NUCTECH™ BX1000SA is adaptable and suitable for personal security inspections at all airports, stations, customs, government offices, market places, etc.

Working Principle

Compton scattering effect occurs when X-rays interact with material. By using a unique X-ray flying spot scanning mechanism and specialized detectors, backscattered X-ray photons are collected and two-dimensional backscattering images are obtained. Analyzing and extracting density information from the substance of the backscattered signal ensures compositional information is highlighted and the detection of suspected contraband items concealed under clothing is thus significantly improved. Adopting ultra-low dose X-ray backscatter imaging technology reduces X-rays passing through the human body and the X-ray absorbed dose becomes almost negligible.

Technology Features

- Non-contact inspection, high throughput
- High quality backscattered images, Nonmetal/metal detection
- Comply with the ANSI N43.17and IAEA for bystanders and the public dose limitation
- Unique privacy protection
- Radioactivity monitoring (RM) function implanted
- Network data transmission and remote monitoring
- All the core technologies for the system are owned by NUCTECH

NUCTECH™ BX1000SA Body Inspection System

Radiation dose comparison

Single inspection

Daily background radiation

=50 times single inspection

2-hr flight

=100 times single inspection

Technical Specifications

General Specifications

Inspection mode	non-contact
Throughput	≥ 200p/h
Radiation dose for single inspection	≤ 0.1μSv
Human height	≤ 2m
Backscatter imaging for one person	≤ 18s
Imaging capabilities	Metal/non-metal weapons, explosives, drugs, etc
Applications	Borders, airports, prisons, Customs, subway stations, Embassies and other government buildings, commercial buildings

Imaging Processing System

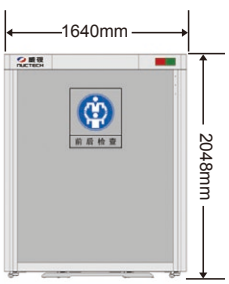
Standard operator number	1
Image acquisition mode	in real time, in-phase
Image enhancement	Contrast adjustment, brightness adjustment, reverse video, privacy protection
Image recall	Preceding image recallable

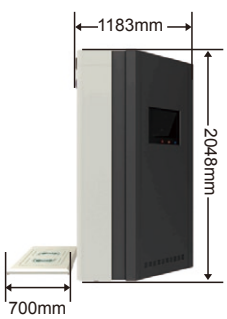
Installation Data

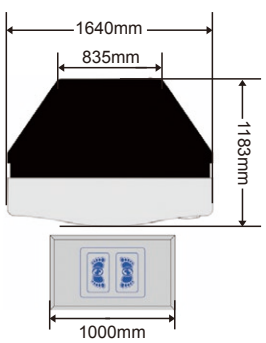
Dimensions	2048mm(H)×1640mm(W)×1183mm(D)
Weight	< 800kg
Power supply	110~240VAC，50/60Hz
Operating temperature	0℃ ～ +40℃
Storage temperature	-20℃ ～ +55℃
Humidity	≤ 93% (non-condensing)

Others

Options	Radioactivity monitor (RM)







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NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2000)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGENENT SYSYTEM(OHSAS18001:2001)

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