

# NUCTECH™ BI2002

## Body Inspection System



### Introduction

The NUCTECH™ BI2002 Body Inspection System is the most ideal solution for detection of both metallic and non-metallic threats and contrabands concealed inside body and artificial limbs, beneath clothes and in shoes. Working with the best proven and extra low dose x-ray transmission imaging technology, and featuring unmatched imaging performance, ergonomic and friendly user interface, excellent reliability and maintainability, the BI2002 has an attractive market prospects at customs, airports, rail transportation stations, prisons, rare metal mines and etc.

### Technical Features

- By extra low dose x-ray transmission imaging, all kinds of threats and contrabands, such as metallic and non-metallic weapons, explosives, narcotics, and rare metals are detectable inside and on surface of human body.
- Unparalleled imaging performance guaranteed by applying advanced medical x-ray generator optimized for body screening, high resolution detector technology, and creative system structure design for scanning human body in static status.
- On condition of acquiring high imaging performance, the x-ray radiation exposure to the inspected human body is reduced to a minimal, by using diversity x-ray doses for persons with different size, filtering useless soft x-rays (low energy x-rays), and scanning ROI (Region of Interest) only.
- Full radiation protection design around the whole equipment, makes the x-ray leakage out of the housing covers is close to natural background level, and no extra radiation protection structure, region or measurements are required.
- Video monitor and snapshot device, as well as intercom system are integrated with the BI2002, to assist the operator in interactions with the inspected persons.
- Windows XP based computer platform builds powerful network capabilities with good compatibility and easy extendibility, and gains great advantages in network applications.
- Unmatchable maintainability comes from modular system design, optimized components layout, full built-in diagnostic tools with easy-to-use graphic user interface, coding error information and system operating logs for reference.

## Technical Specifications

### General Specification

Scanning Area	2000mm(H) × 800mm(W)
Wire Resolution	36AWG
Spatial Resolution	1.0mm

### System Function

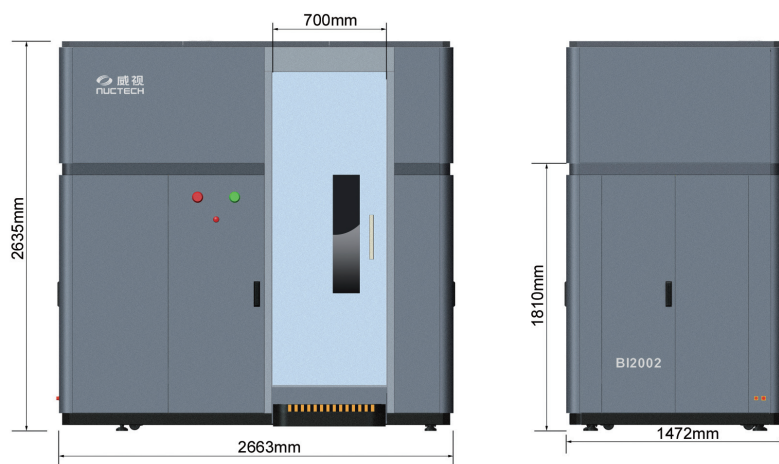
Image Processing Tools	Super enhancement, Detail enhancement, Quasi-3D, Negative, ROI enhancement and Pseudo color, etc.
Image Zoom	Selectable image zoom region, up to 32 times enlargement
Image Management	Image storage capability is up to 50,000. Scan image can be auto-saved and be converted to general image format, e.g. BMP, JPG and TIFF, etc. Images can be exported to USB storage devices or be printed.
ROI Scan	Free selection a region of interest to be scanned for concerned inspection area
User Management	User classification, User adding and deleting, User privilege customization
Assistant Management	Data/time display, Inspection counter, System-on timers, X-ray on timers, Operation log, Built-in diagnostic facility

### Radiation Safety

X-ray Leakage	Less than 1 $\mu$ Sv/hr (5cm from the housing), complies with all international health and safety standards
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### Installation Data

Dimension	2663mm(L) × 1472mm (W) × 2635mm (H)
Weight	1300kg, including radiation self-protection devices
Operating Temperature/Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Storage Temperature/Humidity	-20°C ~ +60°C / 5% ~ 95% (non-condensing)
Power Supply	200~240VAC(-15% ~ +10%), 50Hz/60Hz ± 3Hz
Power Consumption	3kVA



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