

NUCTECH™ HT2100DV

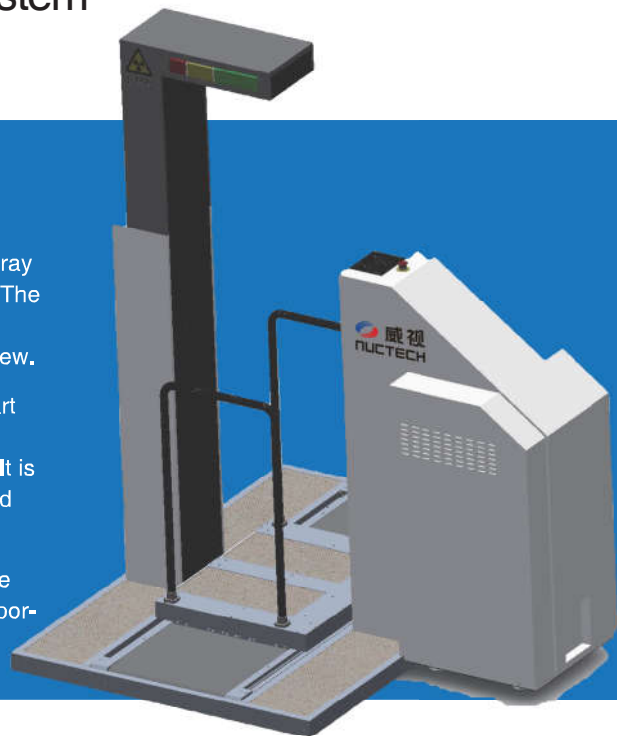
Body Inspection System

Introduction

NUCTECH™ HT2100DV is a high-performance, efficient people screening solution designed and made by NUCTECH. It employs the latest low-dose X-ray transmission imaging technology with an open channel walk-through design. The HT2100DV provides a dual view low dose transmission x-ray scan and is capable of providing a head to toe full body scan with additional abdominal view.

The NUCTECH™ HT2100DV provides high-quality images and state-of-the-art processing software. It detects metallic and non-metallic weapons, drugs, explosives, liquid, jewelry, electronic devices and other forms of contraband. It is capable of threat assessment function that is able to highlight areas with liquid and solid narcotics

The NUCTECH™ HT2100DV is an effective safety and security tool for a wide variety of applications, including corrections facilities, law enforcement, transportation security, public buildings and special events.



Technology Features

⦿ Non-contact head-to-toe inspection under 10 seconds

No special motion required; identifies threats hidden on and within the body with only one scan.

⦿ High quality images with threats assesment software

Provides high resolution and real time dual view images. One image with a head to toe full body scan, the other image for abdominal view. Automatic threat assessment function is able to highlight areas with liquid and solid narcotics

⦿ Practical software

Provides image processing, database management, user management and training functions; LAN and WAN compatible enabling remote inspection, portable monitor and centralized management.

⦿ Superior inspection capability

Easily detects contraband concealed under clothing, ingested or concealed within body cavities; Finds everything, including metallic and non-metallic weapons, explosives, drugs, smuggled goods, mobile phones, jewelry, gems and precious metals.

⦿ Radiation safety

Low dose levels comply with the IAEA and ANSI N43.17.

⦿ Convenient maintenance

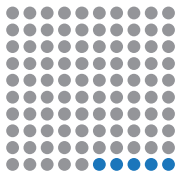
Modular design provides for easy installation and maintenance.



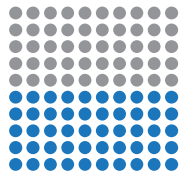
NUCTECH COMPANY LIMITED

People Screening Business Division

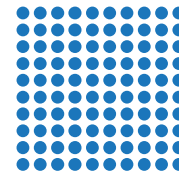
Radiation dose comparison



1 Inspection = 1 hour natural background
(0.25 uSv)



50 Inspections = 2.5 hours flight



400 Inspections = 1 Chest X-rays

Technical Specifications

General Specification

Inspection mode	Non-contact (dual view, dual x-ray generator)
Scan time	< 10 s
Spatial resolution	Φ 1.0 mm line pairs
Wire detection	≥ 34 AWG (up to 38AWG in high dosage)
Radiation dose for single inspection	< 4.5 μSv (adjustable)
Imaging capabilities	Metal/non-metal weapons, explosives, drugs, liquids, etc.

Imaging Processing System

Standard operator number	1
Image acquisition mode	Real time
Image enhancement	Contrast & brightness adjustment, reverse, pseudo color, partial enlargement, etc.
Image recall	Record image recallable, store more than 200,000 scanned images.

Installation Data

System dimensions	2370 mm(H) x 2200(L) x 2200 mm(W)
Scan dimensions	2050 mm(H) x 900 mm(W)
Weight	< 800 Kg
Power supply	230V/110V 50Hz/60Hz
Power consumption	< 1 KVA
Operating temperature/Humidity	0 C ~ +40 C, 5% ~ 95% (non-condensing)
Storage temperature/Humidity	-20 C ~ +60 C, 5% ~ 95% (non-condensing)

Advanced Function

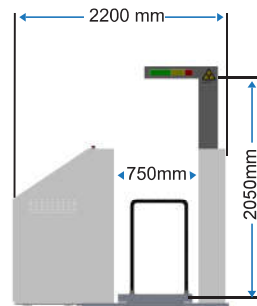
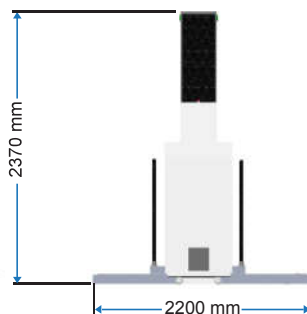
Optional feature	Threat assessment software, Video surveillance, talk back, bar code scanners, remote control & management terminal, controlled door gate (Cabin), radiation reader dosimeter, fingerprint readers etc.
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Scan Image



	Electronic detonator		Mobile phone
	Ceramic knife		Pistol
	Screwdriver		Handcuffs
	Narcotic (powder, liquid, solid)		Battery

Dimensions



Front view | top view