

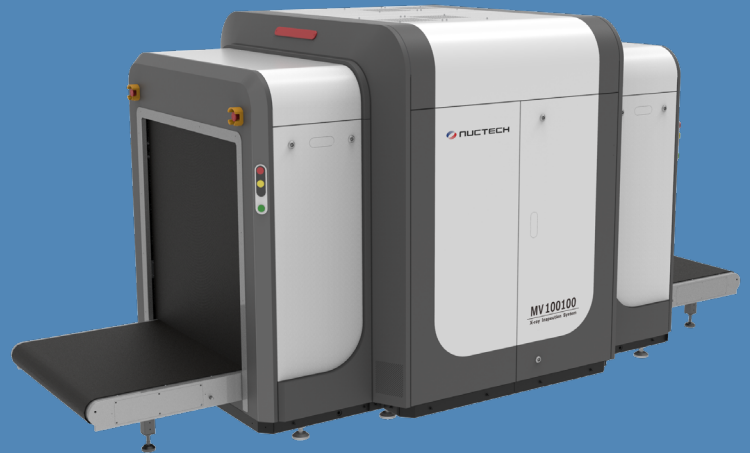
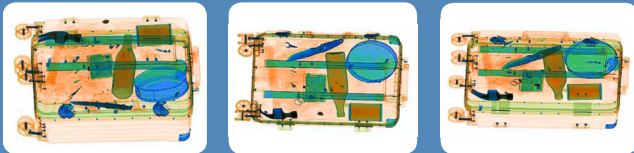
NUCTECH™ MV100100

X-ray Inspection System



The NUCTECH™ MV100100 is a new generation inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual-energy material discrimination technology with 3D Perspective technology, working with NUCTECH WEKNOW AI inspection system, it realizes automated explosives / liquid dangerous goods / aerosol spray bottles / controlled knives / guns detection and alarms with a higher probability of detection and a lower false alarm rate.

With multiple view high-definition 2D scanning images bonding with appearance images, a larger tunnel size and a higher throughput, the MV100100 is an ideal security solution for courthouses, correctional facilities, schools, stations, government builds, event venues, stadiums, etc.



Technical Features

- 3D Perspective Technology**
 Adopting 3D Perspective technology to provide high-definition color 2D images in triple-view, avoiding difficulties in image analysis due to the items overlapping and occlusion.
- Auto Detection and Alarming**
 Working with built-in AI inspection system, MV100100 realizes automated detection of various types of contraband such as explosives, liquid dangerous goods, aerosol spray bottles, controlled knives and guns, etc. and the alarm category of contraband can be expandable.
- Dual-energy Discrimination Technology**
 With the dual-energy discrimination technology, the system colorizes different materials with different colors in 2D images, which helps operators to make decisions more easily and more efficiently.
- Convenient for Maintenance**
 Newly designed detached cover plate make it convenient for maintenance and also easy for replacement of key components due to less maintenance space is needed.
- Bidirectional Scanning**
 The system can realize bidirectional scanning with the bidirectional conveyor, adapting to the different needs of different scenes.
- Large Tunnel Size**
 MV100100 builds a super-large square tunnel with 1 meter wide by 1 meter high which is capable of screening both in-gauge and out-of-gauge baggage.

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Technical Data

General Specifications

Tunnel Dimensions	1006mm(W)×1010mm(H)
Max. Baggage Size	2000mm(L)×1000mm(W)×1000mm(H)
Conveyor Height	300mm~330mm (adjustable)
Conveyor Load	200kg (evenly distributed)
Conveyor Speed	0.2m/s ~ 0.4m/s (adjustable)
Wire Resolution	36AWG
Steel Penetration	26mm
Spatial Resolution	0.8mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

Image Processing System

Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Over 500,000 images

Installation Data

Dimensions / Weight	2480mm(L)×1740mm(W)×1793mm(H) / 1870kg
Operating Temperature / Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40°C ~ +60°C / 5% ~ 95% (non-condensing)
Operating Mode	Support Bidirectional Scanning, Appearance Image Bonding
Power Supply	Single-phase, 220VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	1.7kVA

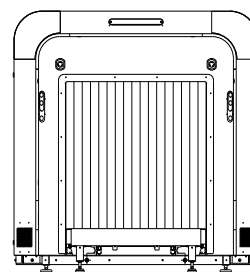
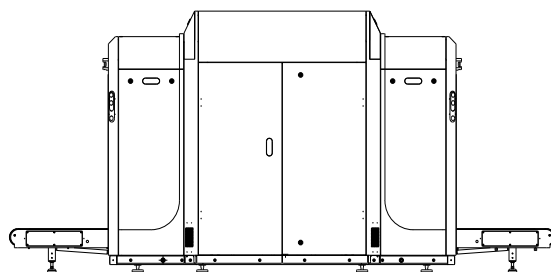
Note: Image performance specifications are based on test materials complying with ASTM standard.

Health and Safety

X-ray Leakage	Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO
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System Functions

Date / Time display, Luggage counter, User management, System-on timers, Power-on self-test, Image storage and query, Built-in diagnosis.



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NUCTECH COMPANY LIMITED



Address: 2/F Block A, Tongfang Building, Shuangqinglu, Haidian District, Beijing 100084, P.R.C.

Tel: +8610 62780909 Fax: +8610 62788896 Web: <http://www.nuctech.com>