

NUCTECH™ MXT80

Mobile Inspection Checkpoint

Creating a safer world



NUCTECH™ MXT80 is a newly developed CT (Computed Tomography) inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual energy material discrimination technology with spiral CT technology. With multidimensional information acquired by the system, it realizes automated explosives/liquid explosives/ narcotics detection and alarms with a higher probability of detection and a lower false alarm rate.

Designed with a larger tunnel size and a higher throughput, the MXT80 is an ideal security solution for airports, Customs, stations, government buildings, public events, etc.

Technical Features

- Selection of world class Germany Man medium trucks, excellent performance, adapt to the complex conditions. There are two power supply modes, city power and generator, to meet the demand of rapid response.
- Generating high-resolution DR images and identifying tiny thin objects like matches and lighter cores.
- With the dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- MXT80 provides 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping making decisions more effectively and efficiently.
- Inspecting objects in 360 degrees free of blind corners and identifying the contraband more easily with a more intuitive image.
- Easier to detect the contraband concealed in interlayers or placed in a particular angle.
- Automated detection of various contraband like explosives, liquid explosives and narcotics, satisfying security needs for airports, customs, etc.

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Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 754mm, Max. Height: 635mm
Max. Baggage Size	1500mm(L)×750mm(W)×410mm(H)
Conveyor Height	700mm(entrance), 600mm(exit)
Belt Speed	0.2m/s
Wire Resolution	40AWG
DR Steel Penetration	40mm
CT Pixel Resolution	2mm line pair
Display Monitor	24" color monitor / High resolution of 1920×1080

System Function

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

Image Processing System

DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
3D Image Processing	Color / BW, Negative, Edge enhancement, Super penetration, Organic stripping, Inorganic stripping, 3D mark, 3D measurement, Threat single display, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Up to 10,000 images

Installation Data

Dimensions / Weight	9650mm(L)×2500mm(W)×3650mm(H) / 15T
Operating Temperature / Humidity	-25°C ~ +45°C / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-30°C ~ +55°C / 5% ~ 95% (non-condensing)
Power Supply	Three-phase, 380VAC, 50Hz, cable length of 50m
Built-in Generator Supply	Single-phase, 220VAC, 50Hz
Power Consumption	15kVA

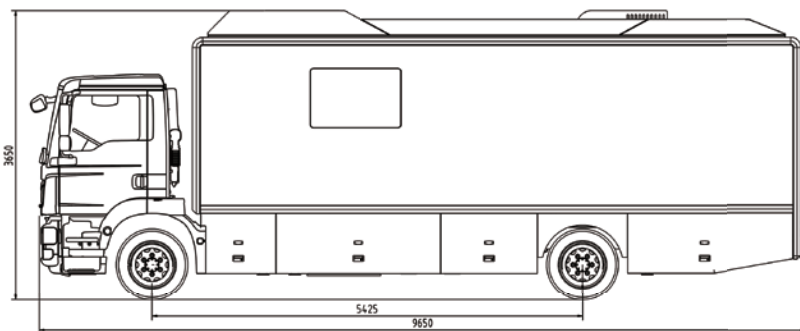
Health and Safety

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

Vehicle Standard	MAN TGM15.290
Engine	Diesel
Emission Standard	Europe IV

Note: Image performance specifications are based on test piece complying with Civil Aviation Administration of China Standard.



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NUCTECH AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2015)
NUCTECH AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (GB/T28001-2011)

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