



MT1213DE
Mobile Container / Vehicle Inspection System

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NUCTECH™ MT1213DE

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Summary

The NUCTECH™ MT1213DE Mobile Container/Vehicle Inspection System is the latest generation of Mobile Container/Vehicle Inspection System adopting an Electron Linear Accelerator (LINAC.) as its X-ray source. It not only inherits the advantages of previous products, but also has larger operation space, deluxe working environment, lower scanning height, higher penetration, and more powerful image processing tools.

The System adopts the latest Interlaced Dual-energy Imaging Technology (IDE Technology) to realize the function of distinguishing materials.

The system is mounted on a VOLVO commercial truck chassis, which can be driven as an ordinary truck when the boom is folded. The weight and size of system can be adjusted according to road regulations of different countries.

The system provides the best mobility and can be deployed at ports, borders, road checkpoints, airports, and some special places where permanent facilities cannot be deployed (such as temporary checkpoints).



Technical Features

- Advanced Interlaced Dual-energy Imaging (IDE) Technology for material discrimination
- Deluxe appearance and comfortable operation environment
- Larger scanning tunnel and option of lower minimum scanning height
- Excellent flexibility design such as small angle deviation inspection enables the system to inspect the suspicious in the interlayer easily
- Powerful image processing tools and friendly user interface
- Convenient operation, such as automatic deploying or retracting
- Perfect system operating safety and data safety mechanism
- Working well in harsh conditions, such as extremely cold or heat, wind, snow and rain





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Technical Data

Type of X-ray source	Interlaced Dual-energy Electron Linear Accelerator
X-ray energy	6/3MeV
Material discrimination function	Organic material and inorganic material can be distinguished and marked by specified colors
Penetration	320 mm steel (standard mode)
Max. Dim. of scanned objects	18m(L) × 2.8m(W) × 4.9m (H) (Length can be expandable on request of customers)
Number of operator	2 (one system control operator and one image inspector)
Vehicle chassis	VOLVO FM/FE series
Scanning method	Scanned objects keep still and the system moves (standard mode) The system keeps still and the scanned objects pass through (Drive-through mode, optional)
Standard Scanning Speed	0.4m/s (standard mode) 7km/h (Drive-through mode)
Throughput	20~25 units of 40ft container vehicles per hour (standard mode) 100 units of 40ft container vehicles per hour (Drive-through mode)
Typical Radiation Safety Area	44m(L) × 37m(W) (standard mode) 32m(L) × 45m(W) (Drive-through mode)
Power consumption	≤30kVA
Image analysis	Pseudo color transformation; edge enhancement; filter; linear/logarithm transformation; histogram equalization; suspicious item mark and comments; multi image comparison; area calculation; user define macro; image format transformation, etc
Zoom	1/4×, 1/2×, 1×, 2×, 4×
Image acquisition mode	Real-time, synchronized
Options	Drive-through mode for fast-scan Radioactive Monitor (RM) License Plate Recognition (LPR) System Container Code Recognition (CCR) System

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* The key parameter such as penetration, radiation safety area and etc. can be adjusted according to customers' requirement.

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NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2008)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT
SYSTEM (GB/T28001-2011)

