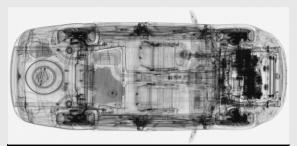
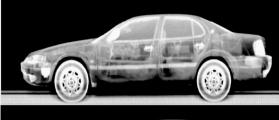


NUCTECH™ CS1000T(BX)Passenger Car Inspection System

The NUCTECH™ CS1000T(BX) Passenger Car Inspection System is a multi-imaging technology inspection system that combines transmission and backscatter imaging technology and provides comprehensive image information to scanned passenger cars. The system adopts a patented conveyor to transport cars through the scanning tunnel and generate one top-view and two side-view scanning images of a car in one pass, providing great help for image analysts to identify concealed contraband or dangerous materials hidden in the cars. It can be deployed at land border, police checkpoint, airport and entries of important infrastructure and public building.







→ High Penetration Top-view Scanning Image

The Inspection System can provide high penetration top-view scanning image to help analysts to identify concealed contrabands or dangerous materials. It is particularly suitable for a chassis inspection.

→ Backscatter Imaging

Backscatter imaging can highlight low atomic number materials (e.g. explosives and drugs), which helps the analyst to find the contraband and dangerous goods concealed in

→ Self-shielding Structure

The Inspection System adopts self-shielding structures, which effectively reduce the radiation protection area.

→ Patented Conveyor

The Inspection System is equipped with a patented two-piece conveyor, which ensures that cars will be parked and transported safely and smoothly without impacting imaging results.

Technical Data

	Transmission module	Backscatter module
Type of X-ray source	Electron Linear Accelerator	X-ray Tube
X-ray energy	1 MeV	225 keV
Penetration	150 mm steel	6 mm steel
Contrast sensitivity	2.0% thickness steel sheet behind 15 mm thick steel plate 4.0% thickness steel sheet behind 75 mm thick steel plate 8.0% thickness steel sheet behind 120 mm thick steel plate	6mm plastic sheet in front of 100 mm thick plastic plate 3mm plastic sheet in front of 6 mm thick steel plate
Wire detection	Φ1.5 mm cooper wire in free air	$\Phi3.0\text{mm}$ cooper wire
Spatial resolution	Horizontal: 3.0 mm Vertical: 4.0 mm	Horizontal: 10.0 mm Vertical: 10.0 mm
Max. Dim. of scanned vehicle	7.0 m (L) $ imes$ 2.5 m (W) $ imes$ 3.0 m (H)	
Scanning method	The conveyor transfers the passenger car through the scanning tunnel	
Throughput	25 units of passenger vehicles per hour	
Scanning speed	0.2 m/s for standard	
Operating temperature	-20 °C - +55 °C	
Humidity range	0% - 95%, non-condensing	
Average dose rate on the system boundary	≤ 0.5 µSv/h	
Computer monitor	24" LCD Monitor or better	
Zoom	1X, 2X, 4X, 8X, 16X	
Image acquisition mode	Real-time, synchronized	
Operator number	4 (one for system control, one for check-in and two for image inspection)	



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