Technological Solutions: Towards a Convergence of Technologies

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Technological Solutions: Towards a Convergence of Technologies

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Cargo Inspection Product Offerings
Threats

- Drugs
- Contraband
- Stowaways
- Security Threats

Customer Needs
Different Missions for Different Customers
Bush signs homeland security bill
planes within three years and sets a five-year goal of scanning all container ships for nuclear devices before they leave foreign ports. It also elevates the

Standard 3 – Modern Technology in Inspection Equipment
Non-intrusive inspection equipment and radiation detection equipment should be available and used for conducting inspections, where available and in accordance with risk assessment. This equipment is necessary to inspect high-risk containers or cargo quickly, without disrupting the flow of legitimate trade.

Comparison Chart

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<th>WMD Detection</th>
<th>Security Threats</th>
<th>Trade Fraud</th>
<th>High Throughput Inspection</th>
<th>Re-locatable</th>
<th>Inspecting Dense Cargo</th>
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ZBV Scanning Cargo Containers

- ZBV offers flexibility for customs agents when scanning containers
  - **Double stacked containers don’t need to be moved**
- Highly effective at finding false compartments
- Mobility allows ZBV to be deployed quickly and easily, to scan all cargo

ZBV in Port Environment

Images of containers
4.2 Tons of Cocaine in Cargo Container

$850,000 in a Vehicle Being Exported
Benefits of Multi-View Imaging

- Create images from left, right and top of cargo and vehicles for improved detection
- Speeds image interpretation and image analysis time increasing the overall throughput of the system
- More comprehensive inspection leads to better detection capabilities
- Top down backscatter image allows for improved cargo recognition and positioning information
OmniView Gantry - Multi-View, Multi-Technology Imaging

Backscatter Left Side

Transmission

Backscatter Top Down

Backscatter Right Side

OmniView Gantry: Transmission + Backscatter

Two 9mm handguns inside pallet of soda

Artillery shell behind barrels of sugar

Three Cartons of cigarettes inside of computer monitor

Three 2lbs bags of sugar inside computer monitor

3lb Delrin block in place of soda

Two 2lbs bags of sugar on side of soda pallet
OmniView Gantry at Port of Charleston

Suspicious item identified in shipment of clothing

2,075 pounds of marijuana smuggled in shipment of clay pottery

Z Portal for Trucks and Passenger Vehicles

- Provides improved detection by imaging all sides of the vehicles
- Offers high-throughput with drive through configuration
- Safe for drivers and passengers

Truck Portal

Car Portal