

# Cargo SmartScan

## Product Data Sheet



**Cargo SmartScan automatically identifies cargo contents to assist operators and keep commerce moving.**

### Key Features

**Automatic, nonintrusive, fast material identification:** innocent cargo is rapidly cleared.

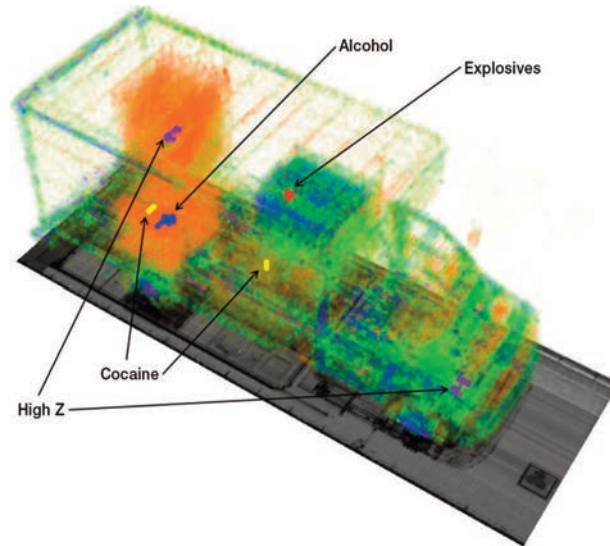
**Highly accurate automatic alarms:** anomalies are detected and located.

**3-D volumetric data enables rapid, automated detection:** unique technology provides detailed information in 3-D to alert operators to specific regions of interest for contraband.

**High Energy X-rays:** dense cargos can be inspected to quickly verify manifests.

**Minimizes the need for costly manual inspections.**

# Automated, accurate, nonintrusive Cargo SmartScan



The detailed 3-D visual (seen above) alerts operators to specific regions of interest for contraband and radioactive materials in cargo

## Cargo SmartScan Technical Information

### Electron Beam

- IBA Rhodotron TT100
- 9 MeV

### Effective Z in 3D (EZ-3D™)

- 3D Image with approximately 2 cm spatial resolution and 10 units of Z resolution
- Automated alarms

### Fissionable Material Identification (PNPF)

- Automated detection of > 500 g of fissionable material in real time in average cargo

### Transmission X-ray

- Greater than 16 inches of steel penetration
- High contrast high-resolution images

### Material Identification (NRF)

- Automated alarm resolution for > 1 kg materials in average cargo
- Wide range of material identification

### Passive Radiation Detection

- Integrated passive radiation detection and identification capabilities

### System Properties

- Throughput of up to 20 vehicles/hour
- Standard configuration facility footprint (17.8 m (max width) x 55 m (max length)) supports inspection volume of 23 m (length) x 4.1 m (height) x 2.8 m (width)
- User configurable materials library with onsite learn mode
- Container/vehicle ID scanner
- Scan control and archiving, system health and diagnostics, and safety interlocks

**Cargo SmartScan**  
is designed specifically for:

- Customs
- Security Professionals

**Passport**  
Systems Inc.