



U.S. CARGO SECURITY

David Y. Loh

Cozen O'Connor

45 Broadway Atrium, Suite 1600

New York, NY 10006

Tel: (212) 908-1202

Fax: (866) 790-1914

Email: dloh@cozen.com

www.cozen.com

What is the foremost security threat from shipping containers?

- Covert nuclear devices & materials
- Prevention of contraband is a side-benefit
- Cargo loss or damage is not a concern

How to inspect without interrupting commerce?

Use of non-intrusive technologies to scan containers, including:

- Radiation Scanners
- X-ray Machines
- Gamma Ray Imagers



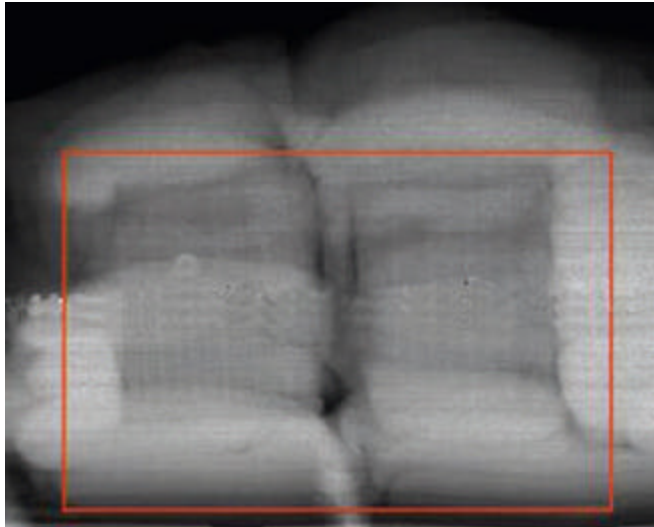
X-ray Imagers

Produces only a two dimensional picture

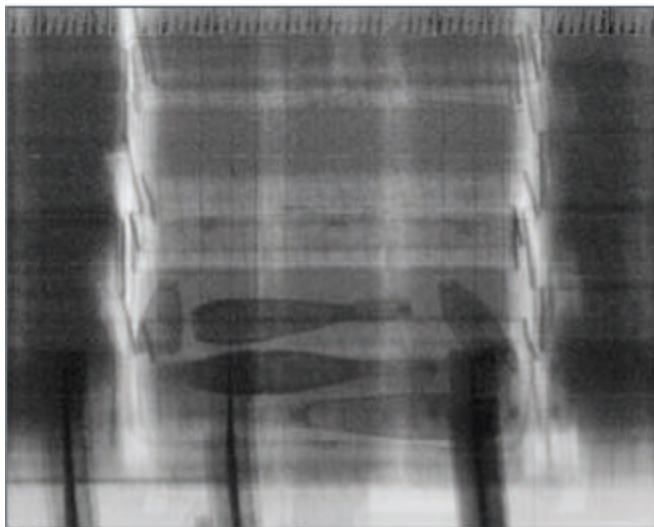


X-ray Imagers

Image has no depth and requires training to interpret data.



Cigarettes Hidden in Rice

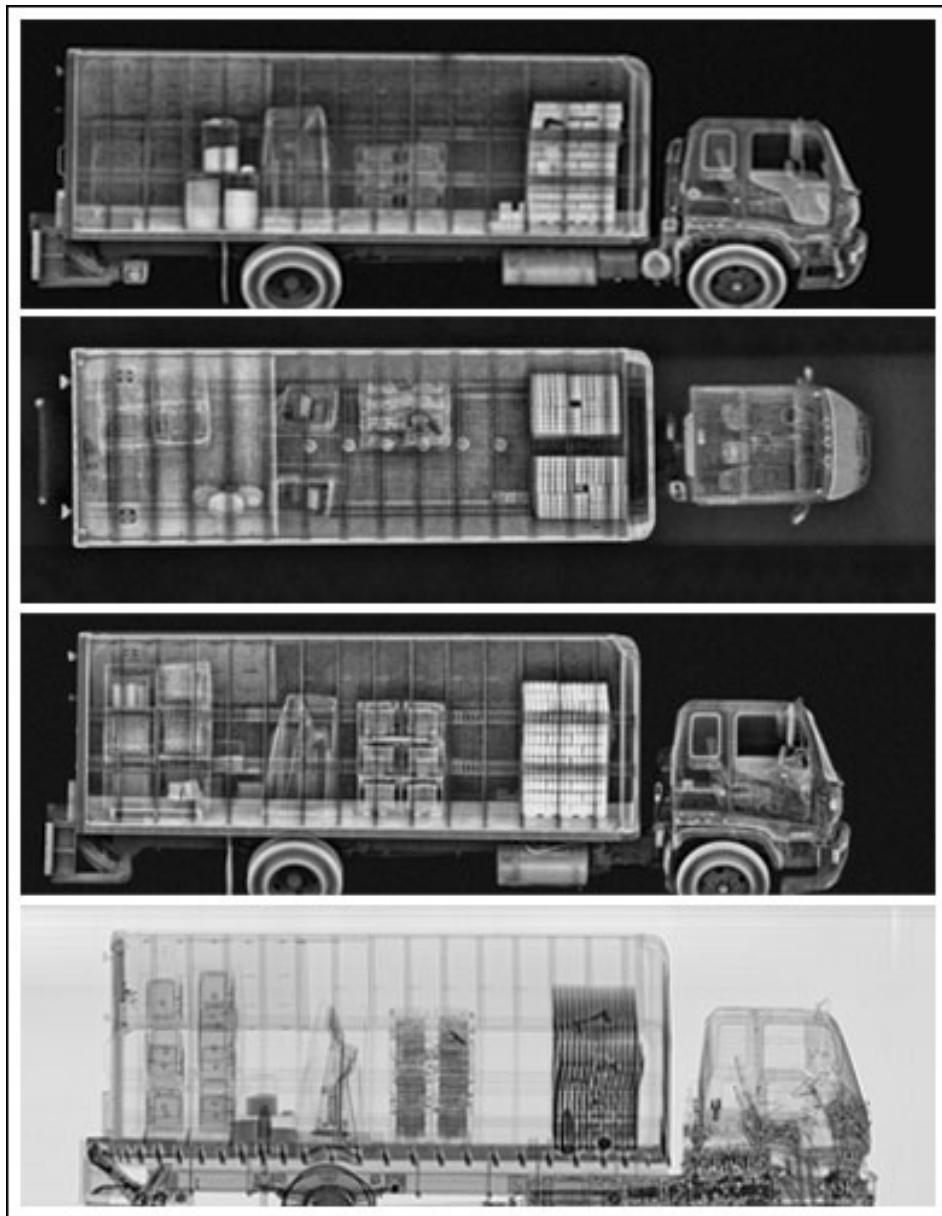


Shells Hidden Among Water Bottles

Gamma Ray Imagers

OmniView provides a three dimensional image of contents inside a container;





Gamma Ray Imagers

said to be extremely high-resolution; and can scan real-time within the scanning area; again requires training to interpret data.

Radiation Portal Detectors



Radiation Portal Detectors

- First generation detector; cannot differentiate between naturally occurring radiation and man-made radiation such as radioactive isotopes.
- Raytheon is developing Advanced Spectroscopic Portal to avoid secondary screening.



Secondary Screening

Radiation
Isotope
Identifier



Recovery Prospects

For security reasons, the government will never allow any images to be used by private insurance because of the possibility of subversion by the enemy.

© 2008 Cozen O'Connor. All Rights Reserved. Comments in the Cozen O'Connor Presentation are not intended to provide legal advice. The views expressed in this paper do not necessarily represent the opinions of Cozen O'Connor, its employees or any current or former client of Cozen O'Connor. Readers should not act or rely on information in the Alert without seeking specific legal advice from Cozen O'Connor on matters which concern them.