

Discovery[®] Commodity Quality Verification

FACTSHEET

MUON TOMOGRAPHY SUPERIOR PENETRATION

Muon Tomography offers unparalleled penetration of dense materials — water, ice, steel, lead, concrete — allowing inspection of cargo beyond the reach of other technologies.

100% RADIATION SAFE

Leveraging naturally occurring muons and electrons, the Discovery[®] system produces ZERO harmful radiation, making the system completely safe for officers and cargo.

3D IMAGERY

Imaging algorithms deliver true 3D imagery that can be rotated, cropped, and sliced. Operators use Discovery[®] to perform thorough inspections without unloading the container, saving time and money.

GAMMA DETECTION

In addition to penetrative imaging, Discovery[®] detects the presence of harmful gamma radiation and provides an estimate of the activity level of the source.

ALWAYS AVAILABLE

Discovery[®] relies on drift tube technology. With no moving parts, the system requires very little maintenance, and provides over 98% Operational Availability.

Verifying the purity/quality of your commodities ! Sugar / Grains / Minerals and much more.....



100% passive = 100% safe
an ideal tool in Quality Validation of bulk commodities

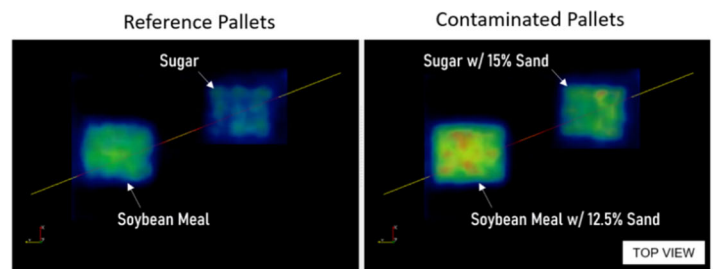
The Discovery[®] system by Decision Sciences translates *naturally occurring* charged particle data into accurate, informative, 3D visualizations to verify purity.



What Discovery[®] delivers to you:

- Standardize the quality of commodities into the Supply Chain.
- A.I.-enabled algorithms automatically detect material quality deviations.
- Quantitative validation of material purity and level of contamination.

Test Scene - Results



Material	Reference	Contaminated	% Increase
Sugar	1.77	2.27	28%
Soybean	2.16	2.96	37%

The table above shows the average image values in each of the material volumes analyzed. Sand contamination at the level of ~15% shows an increase in reconstructed image values of ~30%.



www.decisionsciences.com

e: info@decisionsciences.com

t: (858) 571-1900

