

About Lingacom

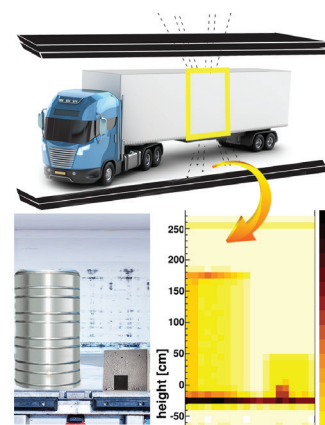
Lingacom Ltd develops and fabricates muon based detection solutions for security, mining exploration, industrial and civil applications. Our green, radiation-free solutions target imaging for the security market and underground mapping for uses such as in mining exploration. Lingacom's muon tomography uses natural cosmic particles, proprietary algorithms and detectors with high spatial resolution developed in-house. Lingacom's key management is built upon a variety of management disciplines enabling product development and the key personnel are highly experienced in all relevant fields: technology, product and business.



High-energy natural atmospheric cosmic-ray muons

Lingacom inspection solution for containers & vehicles

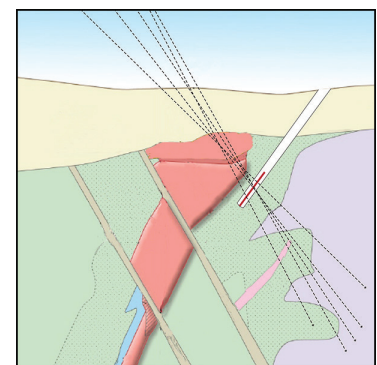
Lingacom's security solution provides an efficient and radiation-free solution for seaports, airports, border crossings, critical infrastructure and sensitive locations. Our solution is useful for detecting high-Z materials such as shielded nuclear and radioactive materials (used in "dirty bombs") in containerized cargo and vehicles. Lingacom's muons based solution provides the capability of effectively penetrating all materials in dense containers, especially in mid to high attenuating cargos using the penetrating cosmic ray muons. Lingacom's solution is based on innovative 3D imaging algorithms combined with large scale and highly efficient muon detectors.



Containers and vehicle inspection

Lingacom Underground Mapping Solution

Lingacom's solution radically changes the underground mapping by probing the ground far from the borehole, unlike current technologies that are limited to the close vicinity of the borehole. The high energy cosmic ray muons penetrate hundreds of meters into the earth. The data is collected by dedicated muons detectors inside the borehole. The collected data is used to image the density of surrounding soil to localize denser objects such as mineral materials (uranium, gold, and copper) and to map the geological layers. This innovative solution reduces the number of expensive drillings.

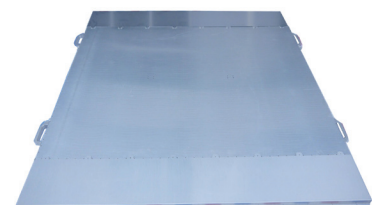


Underground mapping using cosmic ray muons

Lingacom in-house muon detectors

Lingacom develops and fabricates unique muon detectors based on ionization and electron multiplication in a gas for security and underground solutions. The key advantages of our detectors technology are:

- ❖ Simple production process (PCB based)
- ❖ Low cost
- ❖ Support high spatial resolution
- ❖ The gas mixture used is completely safe and chemically very stable.
- ❖ Not sensitive to temperature



Large detector



Lingacom cylindrically shaped imaging detector