

ERDIT Platform meeting
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Industries and detector/electronics development

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Company Profile

- ▶ ALTA Lab is an industry based engineering team, specializing in the design and development of customized x-ray imaging solutions for application in the medical, industrial and security sectors.
- ▶ ALTA Lab is based in the Milan area and leverages on a qualified network of external supplier companies, professionals and institutions, committing to deliver to customers high tech and quality solutions for successful product marketing.



Technology Innovation

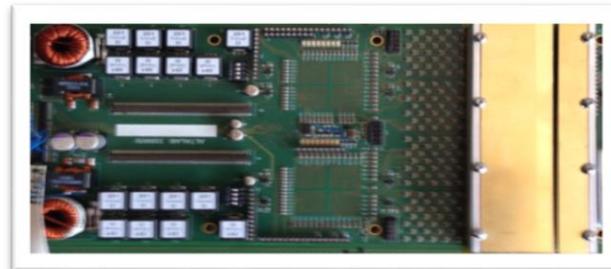
- ▶ ALTA Lab has focused x-ray attenuation spectroscopy as a promising technology providing various innovative applications in medical, industrial and security applications.
- ▶ Alta Lab is committed to deliver spectroscopic solutions tailored to high flux high speed x-ray scanning, addressing effective materials identification in non destructive inspections requiring accurate detection of hazardous substances, contaminants, contraband and counterfeit goods, as well as receipt quality indicators.
- ▶ ALTA Lab is lead partner in a consortium funded by Regione Lombardia / MIUR* developing the spectroscopic technology project named SpectroScan.

Project realized with resources from the European Union, the Italian State and Region Lombardia, in application of (CE) 1083/2006 (art. 69) Regulation, and (CE) 1828/2006 Regulation.



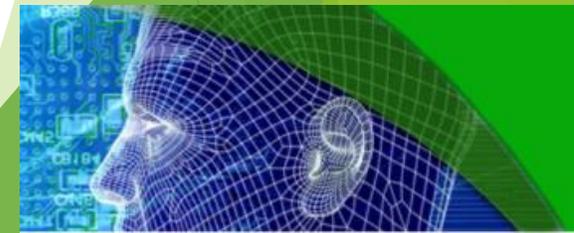
Spectroscan Identifiers

- ▶ SpectroScan is a modular technology addressing linear scanning applications in the range up to 300 keV, with high photon counting and high energy resolution capability.
- ▶ The spectroscopic system is supported by state-of-art electronics providing fast photon counts acquisition, pre-processing and transmission to the host work station, for dedicated multi-core elaboration and material identification.



future radiation detector and imaging technologies road-map

- Alta Lab is presently committed in the deployment of SpectroScan project and its validation in multiple fields of application.
- As desired future trend for radiation detector and imaging technologies road-map, Alta Lab looks forward to future European funding by specific H2020 calls of programs and topics including
 - ▶ development of modular low cost sensor and electronics solutions for industry scale application of spectroscopy in attenuation, back scatter, forward scatter and CT modalities.



ALTA_{LAB}

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