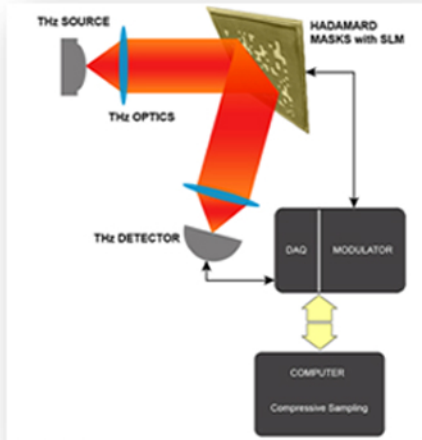


THzImaging



About

Due to the latest technological developments, it becomes now possible to realize a spectrometer/and imager with performant data acquisition, small dimensions, light weight and with no essential moving parts - for space applications.



Principle

Hadamard spectrometer with DMD masks and Compressive sensing based imaging system, for THz domain

Objective

THz Imaging project wants to develop a Hadamard spectrometer and compressive sensing based imaging system, for THz domain of the electromagnetic spectrum. It will incorporate a laser THz source, digital micromirror device hardware (to generate de Hadamard masks), THz detectors, special optics (for spectrometer and imaging system), as well as compressive sensing software for image retrieval.

PROJECT INFO

Title

Compressive THz Imaging and Hadamard Spectroscopy for Space Applications

Acronym

THz Imaging

Type

CDI Star Project financed by the Romanian Space Agency (ROSA)

Starting date

Nov 18th, 2012

Duration

36 months

Partners

INFLPR, Coordinator

CEO Space Tech, Partner

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CEO SpaceTech