

OPTRA

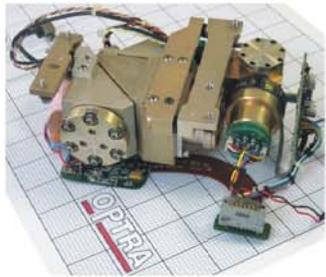
Demonstrated Capabilities

RPA - Risley Prism Scanner



Optical Beam Steering

JSLSCAD - FT-IR Spectrometer



Infrared Spectroscopy

LER - Laser Event Recorder



Laser Detection

Standoff Trace Explosive Detection



Systems Integration



HIDRA - IR Scene Projection



Object Tracking
Passive Ranging
Compressive Sensing

Capabilities We Seek

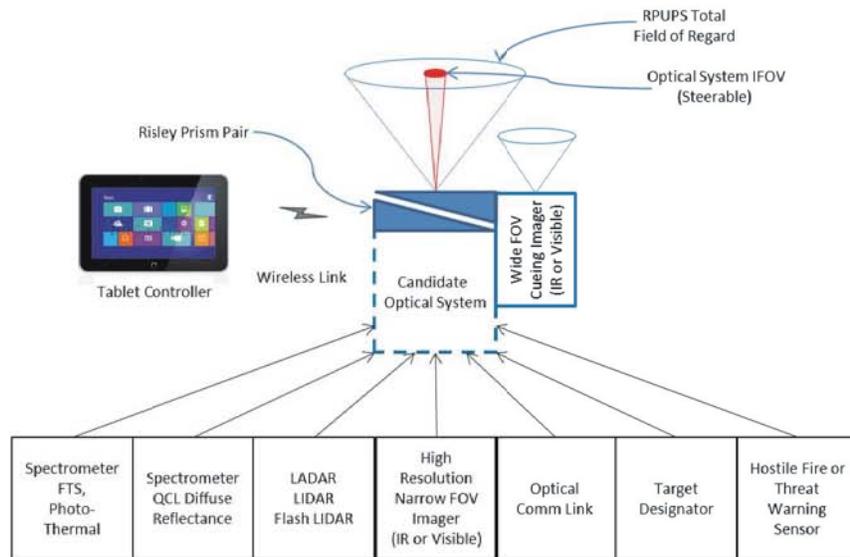
Spectroscopic Algorithms
MIR Tunable Laser Sources

Research Areas of Interest

Standoff Trace Chemical Detection

OPTRA is actively performing research that combines their compact laser beamsteering RPA system with an active source to perform trace chemical detection from a safe standoff using infrared diffuse reflectance spectroscopy (DRS), photothermal spectroscopy (PTS), and Raman spectroscopic techniques.

RPUPs Risley Prism Universal Pointing System



Cueing imager wide field-of-view images are wirelessly linked to a COTS tablet-type device. The operator identifies a region of interest, 'mouses' over that region and wirelessly sends a pointing command to the Risley prism pair to direct the optical system IFOV to that point in the field. Pointing updates continue under manual or auto-track

Contract Information

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