

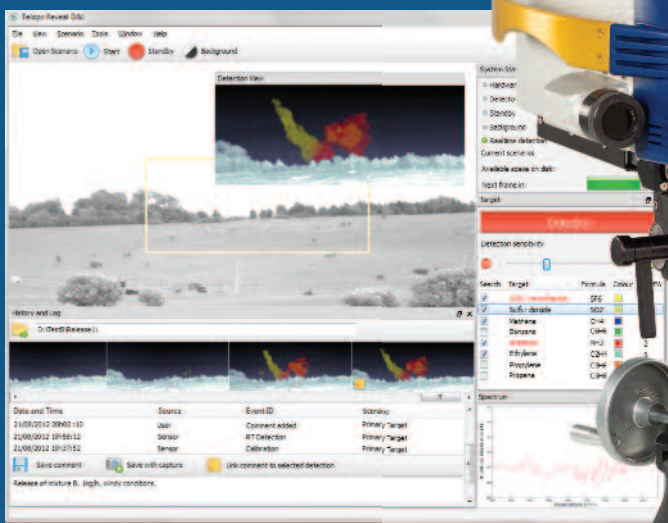
TELOPS

Real-time gas detection & identification

REVEAL D&I

CHEMICAL IMAGING SOFTWARE FOR HYPERSPECTRAL DATA

Reveal D&I is designed specifically for the detection and identification of gas emissions. This powerful software allows real-time detection of a large portfolio of gases simultaneously.



Reveal D&I is designed for use with the Telops Hyper-Cam, the leading standoff infrared hyperspectral imaging sensor.

Applications

DEFENSE AND SECURITY:

- Monitoring of
 - Chemical Warfare Agents (CWA)
 - Toxic Industrial Chemicals (TIC)
 - Volatile Organic Compounds (VOC)

ENVIRONMENTAL:

- Flare measurement
- Leak detection
- Pollution monitoring

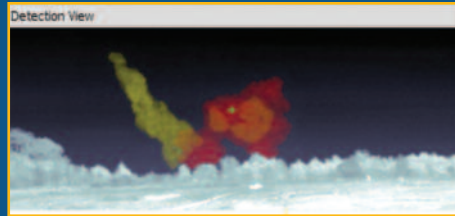
OIL AND GAS:

- Leak detection
 - Combustible gases
 - Toxic gases
- Gas emissions monitoring



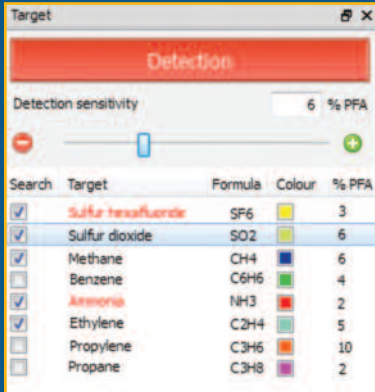
Real-Time Detection

- Multiple gas detection
- Display of multiple gases simultaneously
- Covisualization with the visible image
- Visualization of the calibrated spectra



Powerful Detection Algorithm

- Detection of complex gas mixtures
- Known or unknown background conditions
- High resolution hyperspectral images



Interactive Software

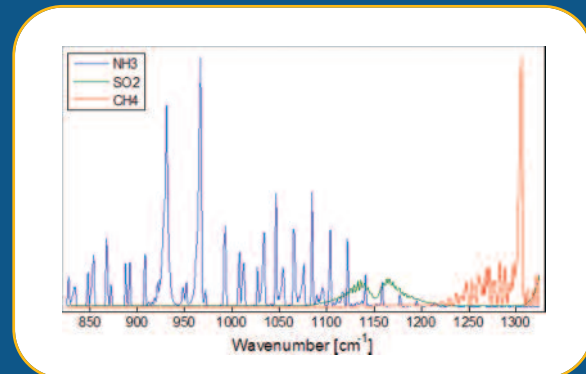
- Adjustable detection sensitivity
- User-defined target list and display
- Customizable detection display
- Visualization of calibrated spectrum at each pixel

Automated Parameter Optimization

- Automated radiometric calibration
- Monitoring of system status
- Autofocus

Spectral Signature Manager

- Compatible with existing spectral libraries including:
 - PNNL (Pacific Northwest National Lab) library
- Importation of spectra



Additional Features

- Rapid feedback for field test validation
- Direct results for ongoing experiments
- Control of configuration panel
- Visible detection history

