HYPER-CAM METHANE

TELOPS

METHANE DETECTION AND IMAGING

The Hyper-Cam Methane is a unique, high performance, thermal hyperspectral imaging camera for the detection and identification of methane (CH4) gas leaks and emissions.

VISUALIZE METHANE GAS

With the Hyper-Cam Methane you can easily detect and identify methane gas at even very low concentrations and flow rates. Acquire data which will allow you to develop the necessary algorithms to visualize methane gas leaks and obtain a clear view of where leaks are located and where the gas is heading.

KEY BENEFITS

• Rapid visualization of leaks and emissions
• Detect small quantities of methane due to high sensitivity
• Passive monitoring of vast areas
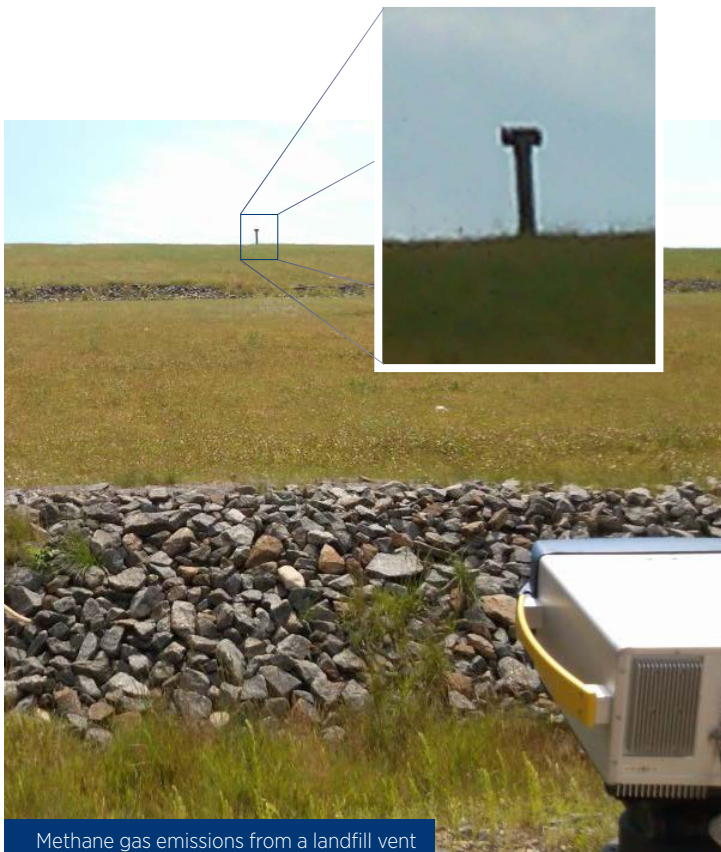
Methane gas emissions from a landfill vent
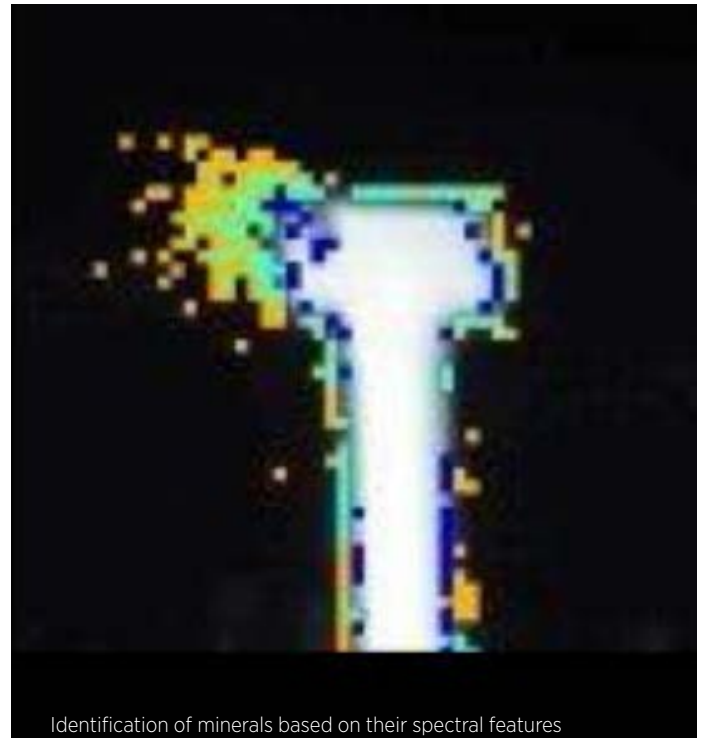
Identification of minerals based on their spectral features

PERFORMANCES

Detection lower limit	1 ppm*
Flow rate lower limit	2 litres/min. at 100 m**

PHYSICAL PROPERTIES

Spatial resolution	320 × 256 pixels
Field of view	25.2° × 20.3°
Operating temperature	− 20°C to 40°C
Certification	IP42
Size	19" × 19" × 10" 482.6 mm × 482.6 mm × 254 mm
Weight	31 kg
Power consumption	150 W

* Sensitivity depends on gas cloud depth and temperature contrast assuming 200 ppm. m. K.
**Specifications are for illustrative purposes, actual results may vary depending on environmental conditions.

APPLICATIONS

Landfill Characterization

• Methane mapping and characterization of large areas
• Landfill liner integrity monitoring
• Passive vents system characterization
• Biogas emission measurements

Exploration and Exploitation of Natural Gas

• Characterization of natural gas leaks in hard to reach areas
• Oil and gas wells evaluation
• Separation unit evaluation
• Crises management

Environmental Research

• Detection and identification of greenhouse gases in:
     o Agriculture, ie. stables, fertilizers,
     o Permafrost monitoring
     o Swamps (putrefaction)
     o Forensic research