

## FUGITIVE EMISSIONS LEAK DETECTION

Infrared emission leak detection helps companies reduce fugitive gas emissions and better track VOC gas leaks. With infrared cameras it allows quick scanning of large areas and pipelines.



### FEATURES

- Operates in -15°C to +50°C temperature.
- 40G industrial shock rating.
- Scans at 30Hz or 30 images per second.
- Self contained power supply (6V battery).
- Polarity reversal capability changes the appearance of gas against the background.

### APPLICATIONS

- Day-to-day **maintenance**.
- **Safer** and easier QA/QC procedures.
- Inspections for predictive and **preventative maintenance** and process monitoring.
- Efficient gas plant **turnarounds**.
- Tank farm and fuel **storage tank** inspections.
- Inspections of **compressor facilities** and oil & gas **batteries**.
- Hydrocarbon **spills** on the ground or in the water.
- Facility **start-up** operations.

### BENEFITS

- Infrared imaging detects leaks at a safe distance.
- Provides real-time recordable images to better assess which repairs should be made.
- Thermal imaging allows the operator to clearly identify emission sources and location.
- Portable and mounted units scan thousands of components or kilometres of pipeline from a moving vehicle or helicopter to identify major and expensive leaks.
- No road access required when conducting ATV mounted pipeline sweeps.
- Solves compliance issues for emission regulations.
- Complies with CAPP - Best management practice guidelines.

Diagnostic Engineering provides the most current, efficient and well-recognized technology, as well as the industry BMP recognized procedures, in the following way:

### STEP ONE

- Scanning all components with GasFinderIR InfraRed Camera to identify the location of VOC leaks, place numbered LEAK TAG(s) on each “detected leak”, component or connection
- Take a documentary still photo of the leaking component(s)
- Take video footage of each leak for easy identification



### STEP TWO

- Quantifying methane leak rate ( $m^3/yr$ )
- Scanning each previously detected leak with Hi-Flow® Sampler to quantify leak rate in litres/minute
- Identifying the “screening concentration” and flag in the report, all locations where the leak is 10,000 ppm and over (or as directed by the client)
- Provide net annual value of lost gas, estimated repair cost and calculate the time taken to recover repair costs (flag all repairs with a payback period under 1 year, or as directed by client)
- Document all our findings in a full written report (also digital copy containing video clips and still photo’s on CD)

