



Towards net zero carbon  
emissions and optimising  
operational effectiveness

ORION<sup>®</sup> CH<sub>4</sub>  
Open Path  
Gas Analyser

For Oil and Gas

# Why MIRICO

At MIRICO, we have put together a world-class team of scientists who are focused on delivering the most reliable monitoring technology for gas emissions across multiple industries. In doing so, the impact of emissions can be reduced through monitoring and evaluation, whether you are seeking net zero targets or looking for optimal operational effectiveness.

## Introducing the unique Laser Dispersion Spectroscopy (LDS)

At the heart of all MIRICO products is a revolutionary new technology - Laser Dispersion Spectroscopy (LDS) developed by the dedicated scientists at MIRICO.

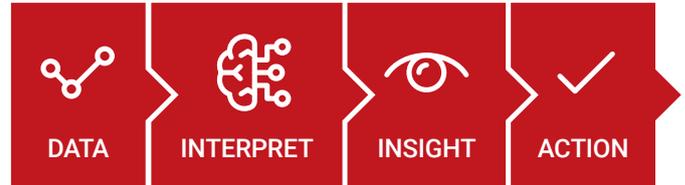
The technology provides real-time monitoring of emissions, operating specifically in the mid infra-red spectral region and enables the collection and interpretation of emissions data in almost all weather conditions.

From this data you are able to gain insights based on accurate continuous reporting, even in fog, rain, snow and particulate affected environments.

This new level of intelligence enables oil and gas installations to be managed more effectively than ever before.

### Advantages of Laser Dispersion Spectroscopy

- High resolution covering a wide dynamic range
- Uniquely works in almost all weather conditions, so no data gaps
- Continuous monitoring to maximise returns and future-proof compliance



## What sets MIRICO's LDS system apart?

The patented LDS technology delivers large scale monitoring using a bespoke set-up of a strategically positioned ORION<sup>®</sup> and corresponding retroreflectors. With its sweeping laser, which can scan through 360°, the full multi beam analysis provides real-time data on gas emissions in almost all weather conditions - which is key to the delivery of reliable information.

### Advantages of ORION<sup>®</sup> range

- Dedicated gas sensitivity providing real-time data
- Easily installed with fully configurable set-up and autonomous operation
- Easy remote monitoring and management

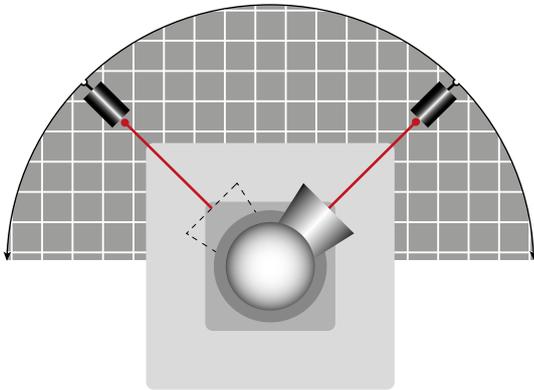


MID  
INFRA  
RED  
INSTRUMENTATION  
COMPANY

# Fully configurable technology

The MIRICO ORION<sup>®</sup> is fully configurable to meet the needs of oil and gas applications across a wide range of terrains. Two key applications predominate:

## Fugitive emissions



The ORION<sup>®</sup> can monitor a full installation with this set-up. Sweeping through a 180° arc, strategically placed retroreflectors provide continuous data which can be analysed using proprietary mapping tools.

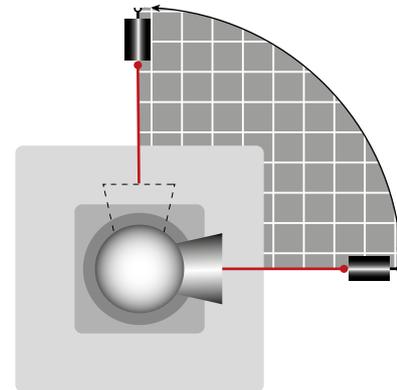
With this configuration you can detect, localise and quantify fugitive emissions to maintain safe operations, avoid costly false alarms and minimise environmental impact, whilst maximising uptime.

- Monitor fugitive emissions and track changes with alarm settings if applicable levels are exceeded
- Pinpoint leaks for evaluation of ongoing monitoring or remedial action
- Quantification of level of product loss for improved profitability of assets

## Site emissions

For those seeking to deliver net zero targets, it can be critical that emissions are monitored at point of egress from the site. This is particularly important for installations near populated areas.

- Monitors environmental impact 24/7/365 for peace of mind
- Provides immediate data should any safety or legislative levels be exceeded



By positioning two ORION<sup>®</sup> instruments at opposing corners of a facility, the continuous and autonomous total facility emissions monitoring provides real-time insights.

- Quantification of site emissions data for health and safety and legislative compliance
- Accurate continuous data to track progress towards net zero

Transformational Gas Measurement

If you are looking to specify a methane emission monitoring system for your oil and gas installation then **MIRICO** is offering free consultations to help you design the optimal set-up.



# MIRICO

Transformational Gas Measurement

## Contact Us

Call +44 (0)1235 612 400 or book a session with one of our specialists at [www.mirico.com](http://www.mirico.com)



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