PERGAM TECHNICAL SERVICES

We Invent to Prevent

LMC

METHANE DETECTION FOR UAVs

Natural gas is composed of more than 75% methane. There is high demand for an easy and cost-efficient method for the detection of methane in all sectors of the natural gas industry. From production through processing and transmission, to distribution; an impressive number of applications can be realized with the LMC sensor including line, tank and asset inspections, landfill emission monitoring, and surveys in difficult to access areas that previously required scaffolding. The booming LNG and the shale gas industries are other markets with huge opportunities for leak detection services.

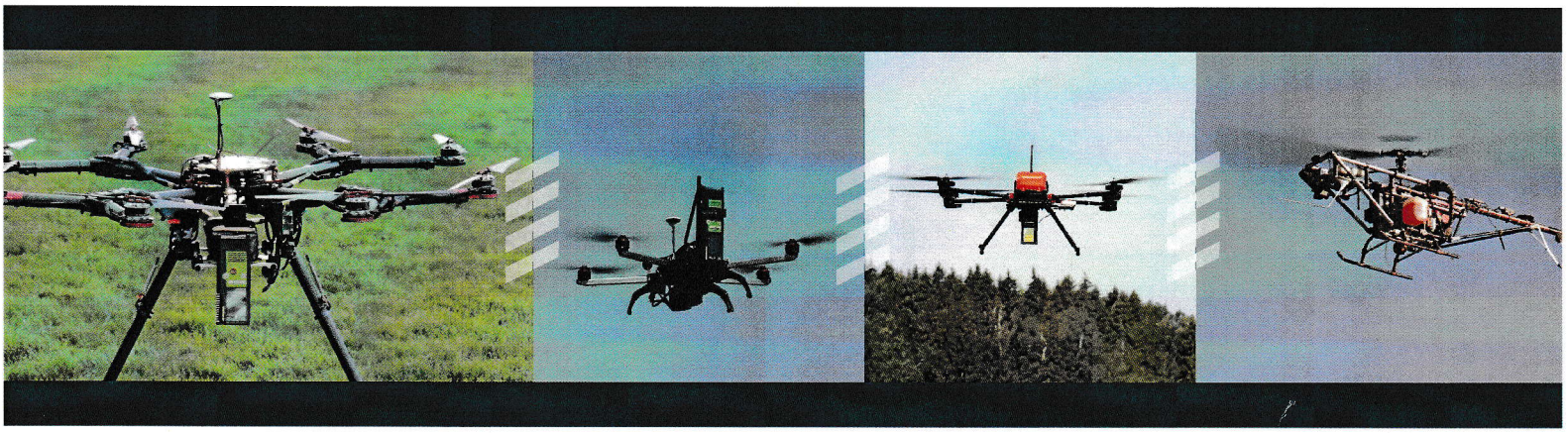
- **Immediately usable with almost every UAV with payload capabilities >1.5 lbs.**
- **Tracks the inspected route with coordinates and gas concentration**
- **Easy data export for reporting**
- **Eye safe class 3R laser**

Preliminary Information

LMC SPECIFICATION

Target Gas	Methane (CH4) and methane-containing gases (natural gas and similar)
Detection Units	ppm × m
Detection Limits	1 ~ 50,000 ppm × m
Detection Speed	0.1 seconds
Distance	1.5 ft. – 100 ft. / 0.5 – 30 meters
Operating Time	Approx. 5 hours
Laser (Guide Light)	Output wavelength: 532 nm, Output level: 5 mW (Class 3R) or less
Laser (Measurement Light)	Output wavelength: 1653 nm, Output level: 10 mW (Class 1) or less
Operating Temperature	−1.4°F – 120°F / −17°C – 50°C
Operating Humidity	30 – 90 % (no dew condensation)

Specifications subject to change without notice.



About Pergam

Pergam is a multinational corporation with core compe-tencies in remote gas detection and a wide range of non-destructive testing methods (NDT). Pergam provides cut-ting edge inspection services to the natural gas industry. With its unique and patented ALMA and SELMA systems Pergam is a pioneer in laser based gas leak detection. Ex-cellent customer service is guaranteed through our head-quarters in Switzerland and a sales and support office in Seattle, WA dedicated to the needs of the North American market.