

NEW

LMC Laser methane copter

REMOTE METHANE DETECTION

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 Laser methane copter including line, tank and asset inspections, landfill emission monitoring, and surveys in difficult to access areas that previously required scaffolding. LNG and the shale gas industries are other markets with huge opportunities for leak detection services.



- ▶ Available as ready-to-go solution incl. UAV or gas sensor only
- ▶ Tracks the inspected route with coordinates and gas concentration
- ▶ Easy data export for reporting
- ▶ Eye safe class 3R laser
- ▶ Integrated Full HD camera

LMC Laser methane copter Specification



General specification

Items	Specifications
Target gas	Methane (CH4) & methane-containing gases
Detection limits	200 ~ 50,000 ppm x m
Accuracy of detection	± 10 %
Detection distance	0.5 m ~ 70 m
Dimensions	70 (W) x 179 (D) x 42 (H) mm
Calibration	Self-calibrating with integrated reference cell
Structure	Splash & Dust Proof (IP54)
Sampling rate	10 m / s
Battery life	Approx. 4.5 hours (at 25 °C, Display Level:5, Flashing Guide Light)
Operating temperature	- 17 °C ~ + 50 °C
Weight	530 g or less (including Ni-MH Battery Pack)
Guide laser light color	GREEN (Class 3R: 5 mW or below)
Certificate	CE (R & TTE)
Application	UAV
Connection	Bluetooth & Internet Access (Android) / data logger

General specification



Items	Specifications
Max. gas detection range	70 m
Flight time	up to 1 hour
Max horizontal speed	60 km/h
Max. vertical speed	5 mps
Flight distance	up to 25 km
Takeoff weight	6.5 kg
Max. altitude	500 m
Takeoff / landing side	5 x 5 m
Readiness time	5 min
Temperature range	-17 °C to + 40 °C
Max. wind speed	10 mps
Camera resolution	1920 x 1080 (Full HD)
Specifications subject to change without notice.	

Pergam is a multinational corporation with core competencies in remote gas detection and wide range of nondestructive testing methods (NDT). Pergam proved cutting 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. Excellent customer service is guaranteed through our headquarters in Switzerland and a sales and support office in Seattle, WA dedicated to the needs of North American market.