



LASER METHANE COPTER G2

with Downlink

The PERGAM Group of companies in cooperation with SPH Engineering has now introduced the second generation of unmanned methane (CH_4) leak detection on a DJI Matrice 600 drone. Designed for a variety of applications, this new system is perfect for leak detection for distribution systems, storage and underground facilities, landfill areas and gas processing plants.

This second generation platform provides for real-time transmission of methane data at the surveyor's fingertips and is visible on a control panel.

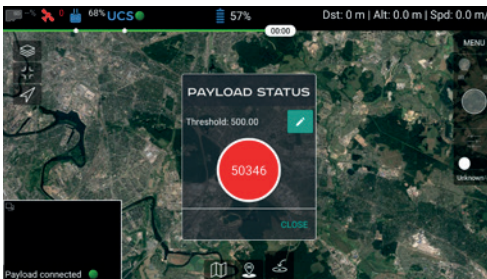
It is now possible to react in real-time to methane indications during flight. You can now pinpoint locations for the purpose of eliminating costly and dangerous leaks.

Features and Benefits

- **Survey rate** — up to 328 ft / 100 m² per 5 minutes
- **On-line (in-flight) data transmission** — through the standard DJI communication line
- **Sensitivity** — 1 ppm×m to 50.000 ppm×m
- **Transmission range** — up to 3 mi / 5 km
- **3D terrain relief mapping** for ease of flight preparation
- **Remote control capability**
- **User-friendly** and easily deployable

Laser Methane Copter G2 Specifications

Target Gas	Methane (CH ₄) and methane-containing gases (natural gas and similar)
Detection Limits	1 – 50,000 ppm×m
Detection Speed	0.1 seconds
Distance	1.5 ft. – 100 ft. / 0.5 m – 30 m
Operating Temperature Range	1°F ... 104°F / -17°C ... +40°C
Laser Safety Class	Guide light (green laser light): Class 3R Measurement light (infrared laser light): Class 1
Weight	UAV – 21 lbs / 9.5 kg (DJI Matrice 600 series) LMC – 2.2 lbs / 1 kg



Android App (remote controller)



Windows App (ground station)



Methane Copter Kit

Supported platforms: Microdrones MD4 series, DJI Matrice 600 series, Ardupilot, Px4 based drones and Mikrokopter.

About Pergam

Pergam, a multi-national corporation, is a pioneer in laser-based remote gas leak detection — with a wide range of non-destructive testing methods (NDT). Pergam provides cutting-edge inspection service to the natural gas industry with its unique and patented ALMA and SELMA systems. Located near Seattle, WA, our US office is dedicated to the needs of the North American market. Headquartered in Switzerland, our parent company provides gas leak detection services worldwide.

