



mdTECTOR
1000CH4 LR



GET OVER YOUR GAS DETECTION PROBLEMS.

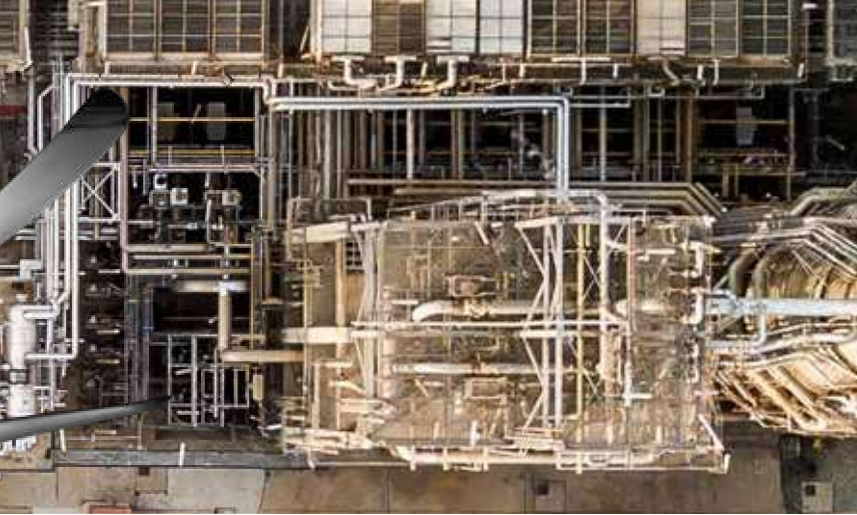
mdTector, from Microdrones,
is a lineup of professional aerial
inspection solutions.

mdTector1000CH4 LR, is a fully integrated aerial methane
inspection package. It's purpose-built for professionals who
are responsible for inspecting methane gas infrastructure.

mdTector1000CH4 LR consists of a Pergam gas sensor,
mounted and integrated perfectly with a Microdrones
md4-1000 UAV. It has an onboard HD video link. That means
that you can see in real time what you are detecting with
the laser sensor.



A perfectly integrated
Pergam Laser Methane Falcon
sensor for detecting Methane
(CH₄) and methane-containing
gases, 1 – 50,000 ppm × m.



THE mdTECTOR1000CH4 LR PACKAGE INCLUDES:

PLATFORM



md4-1000

Robust, powerful, stable and dependable. Build your business on this versatile platform.



Charger, Flight Battery & Carrying Case

One md4-1000 flight battery and charger for maximum flight endurance and a field tough carrying case.

COMMUNICATIONS



mdRC

Proven, professional controls and telemetry keep you in control when you need it most.



Digital Data Link

Conveniently connect your Microdrones UAV to your digital devices.

PAYLOAD



Integrated Methane Gas Sensor & FPV Camera with Video Link

Pergam LMm Gen 2 for Methane (CH_4) and methane-containing gases, 1 – 50,000 ppm x m

SOFTWARE



mdTector Viewer App

Visualize methane detection levels, post flight on a map, via an intuitive, easy to use Microdrones Android app.



mdCockpit Tablet Software

Simple swipes of the finger help you plan your survey area and monitor progress in flight on your Android tablet.



It goes where people shouldn't.

Whether your gas infrastructure is in a hard to reach riverbed or near a steep cliff... the tough, carbon-fiber built drone will easily navigate terrain that would be difficult, dirty or dangerous by traditional foot crews. Microdrones is known for its field-proven aircraft platform. It's sturdy, stable, resistant to wind and weather, as well as dust and dampness.

The mdTector1000CH4 LR is versatile and can be used for:

- Natural gas line surveys
- Tank inspections
- Gas well testing
- Landfill emission monitoring
- Plant safety



mdTector1000CH4 LR technical specs:

SOLUTION COMPONENTS

Platform

md4-1000

Payload

Sensor: Pergam Laser Methane Falcon

Software

- mdCockpit
- mdTector Viewer App

TECHNICAL SPECIFICATIONS

Solution Take off Weight (TOW)

5520 g

System Operational Temperature

-10 °C to 50 °C

PRODUCT PERFORMANCE

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 ⁽¹⁾
Detection Distance	1.5 ft. (0.5 m) – 328 ft. (100 m)
Laser Safety Class	Guide light (Green laser light): Class 3R, Measurement light (infrared laser light): Class 1
Dimensions	120 (W) × 120 (D) × 140 (H) mm
Features	Live view telemetry, Live view video feedback

⁽¹⁾ The mdTector1000CH4 solution averages 10 data in order to record 1 value each second.

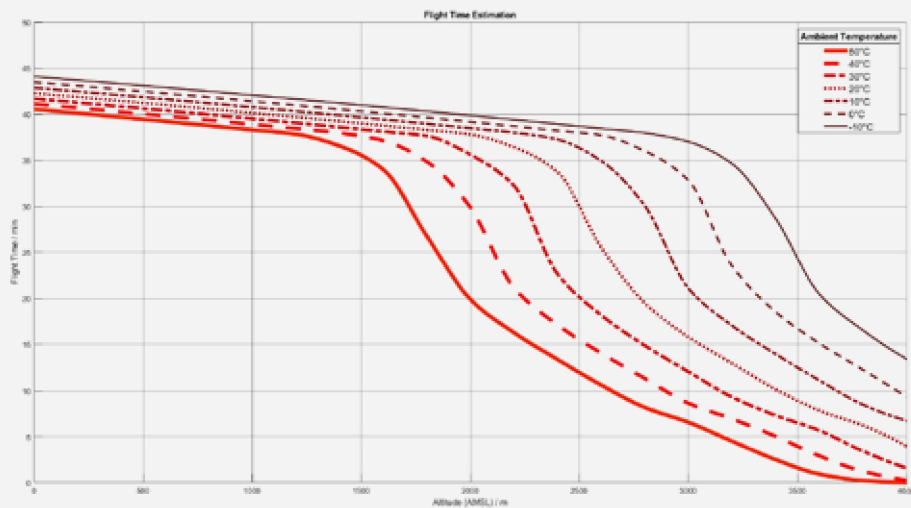
⁽²⁾ Please take note that the lower distance values might represent safety issues for the UAV in terms of altitude above ground level.



APPROXIMATE FLIGHT TIME

Systems are delivered with a preflight planning tool that will provide the pilot with the low battery level recommended for safe landing.

2 BLADE FLIGHT TIME



(OPTIONAL) 3 BLADE FLIGHT TIME

