mdTECTOR
1000CH4

GE industrial drone line

GET OVER YOUR GAS DETECTION PROBLEMS

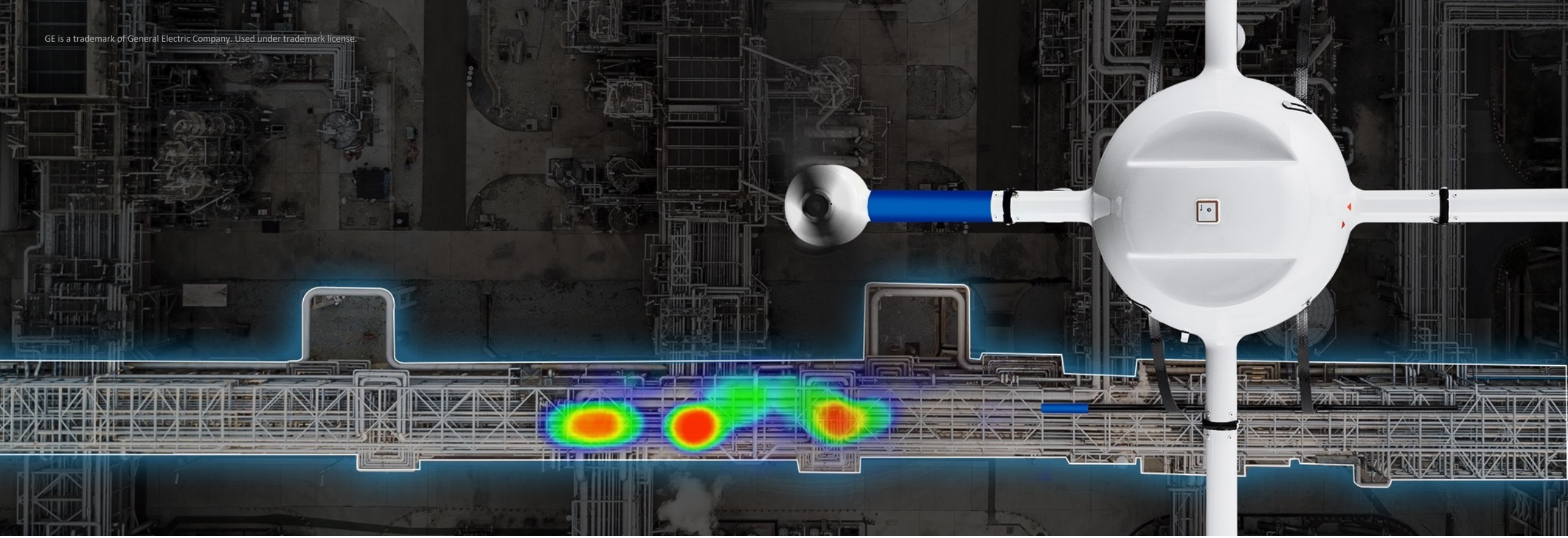
mdTector1000CH4, is a fully integrated aerial methane inspection package. It’s purpose-built for professionals who are responsible for inspecting methane gas infrastructure.

microdrones®

mdTECTOR 1000CH4

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.



A DRONE PACKAGE FOR PEOPLE WHO GET STUFF DONE.

- Natural Gas Line Surveys
- Tank Inspections
- Gas Well Testing
- Landfill Emission Monitoring
- Plant Safety

BENEFITS

- Low cost compared to the expense and risk of traditional gas detection methods
- Broad range of detection, from 1 – 50,000 ppm × m
- Lightweight and easy to transport
- Easy to deploy and operate

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OUTPUTS

The mdCockpit Android App provides a live data view of potential gas leaks in real time during flight.

- Methane Column Density in ppm × m
- Sensor Status
- Plot the LMm readings

The mdTector Android App allows you to graphically visualize and present all exported post-flight data on one convenient map.

- Data includes LMM reading and GNSS position
- Import TFD from md4-1000
- Quickly export data to .csv for exploitation in GIS software
- Data is displayed by color
- Toggle between Google Imagery and Google Maps

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WHAT CAN YOU DO WITH IT?

mdTECTOR1000CH4 is a versatile package that can be used for a wide range of applications. Some of the most common uses are:

SURVEY EQUIPMENT

mdTECTOR 1000CH4

microdrones

md4-1000

Charger, Flight Battery & Rugged Carrying Case

Integrated Cooling Covers

Mag-less Navigation

LED Light Rings

COMMUNICATIONS

Encrypted Digital Data Link

mdRC

Extended Communication Range Operation

Multiple Tablet Control

Remote ID Enabled

SURVEY EQUIPMENT

mdTECTOR 1000CH4

PAYLOAD

integrated Methane Gas Sensor & FPV Camera with Video Link

SURVEY EQUIPMENT SOFTWARE

mdCockpit Tablet Software

mdCockpit Tablet Software

Tap & Fly

mdInfinity | mdaaS

TECHNICAL SPECS

mdTECTOR 1000CH4

SOLUTION COMPONENTS

Platform
md4-1000

Payload
- Sensor: Pergam Laser Methane Falcon

Software
- mdCockpit
- mdTector Viewer App

TECHNICAL SPECIFICATIONS

Takeoff Weight (TOW)
5520 g

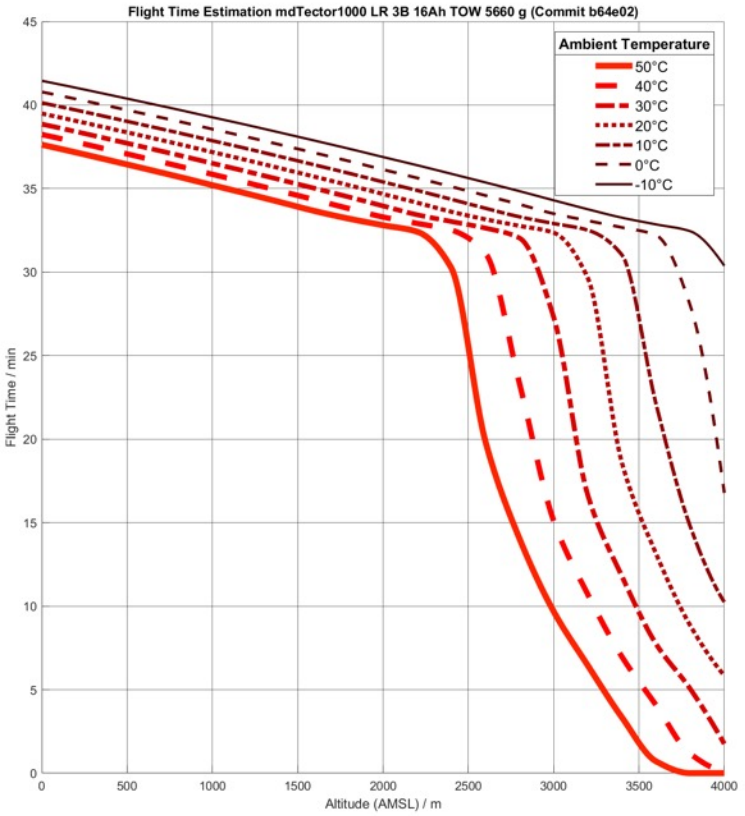
System Operational Temperature
-10 °C to 50 °C

APPROXIMATE FLIGHT TIME

	mdTector1000CH4
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) m
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.