METHANE DETECTION & COMPLIANCE

All-in-One Solution for Methane Detection & Compliance



Xplorobot Laser OGI is an EPA-approved methane detection and inspection solution that combines a handheld or drone-mounted laser sensor with industrial AI, so that leaks are detected, pinpointed, quantified and documented, and repairs verified, in a single visit.

Cost-Effective Compliance

Approximately 50% lower cost than legacy LDAR programs.

Real-Time Reporting

Sensor-to-cloud connectivity sends instant leak notifications, reducing repair delays.

Regular Field Personnel

No specialist thermographers are required, so regular crews can run the survey.

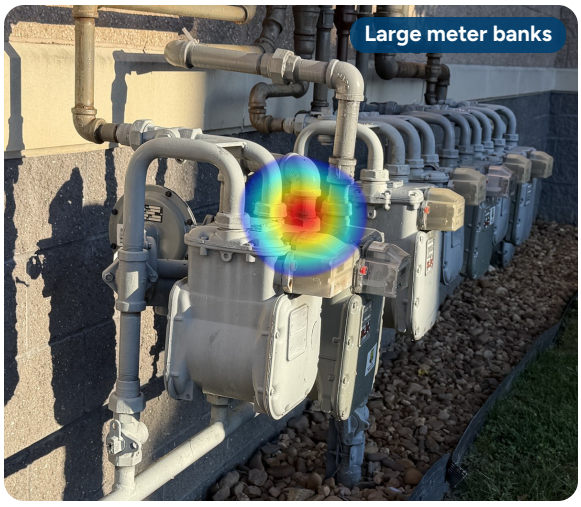
Automated Recordkeeping

Audit-ready compliance tags are generated with the click of a button.

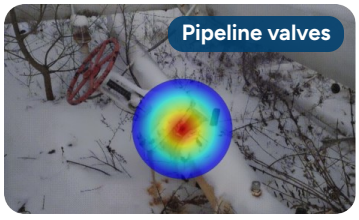
One platform. One workflow. Multiple applications.

Detect emissions above ground and below ground, near and far.

USA EPA APPROVED



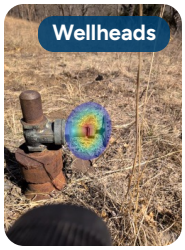




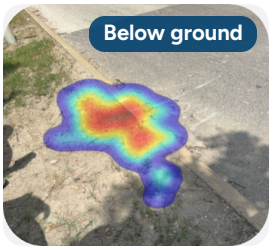










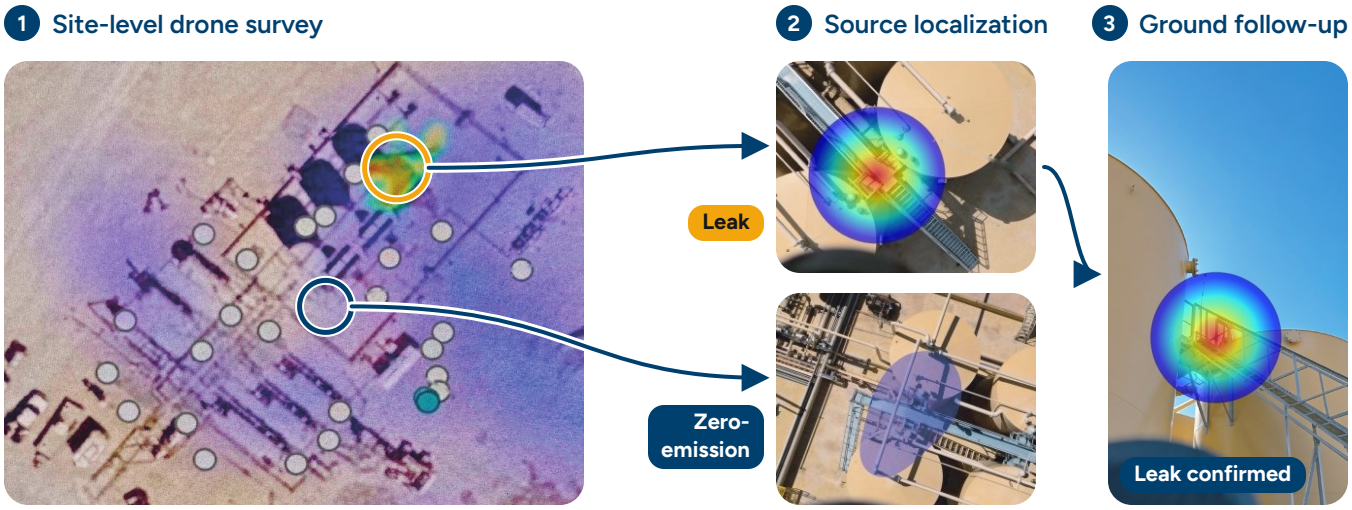


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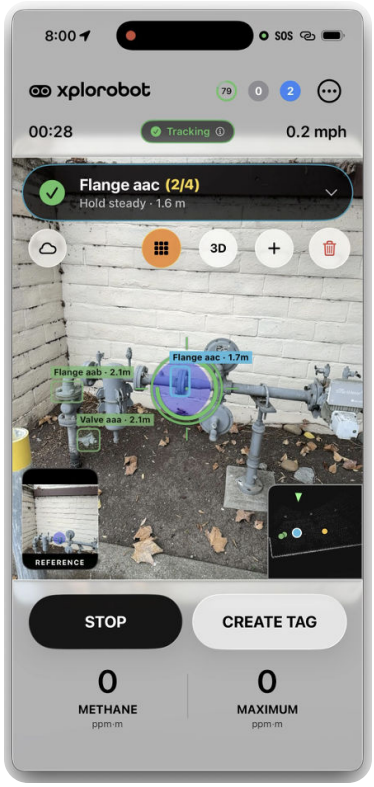
Compliance Without the Extra Steps

Compliance programs shouldn't require expensive equipment, multiple site visits, or hours of paperwork. Xplorobot helps operators reduce costs while improving visibility and documentation.

ONE SENSOR, ON A DRONE AND IN HAND



Drone-to-ground workflow. A drone flight maps methane across the site (1), and each indication is localized by drone (2): the amber-circled hotspot is a leak on a tank-top hatch, while the navy-circled piping reads clean and receives a zero-emission tag. The leak is then confirmed and tagged from the ground with the same sensor (3).



Automated re-inspection workflow

For LDAR programs at wellpads and compressor, M&R and storage stations, the app walks the technician back to every tagged component. AR labels name each flange and valve with its distance, a reference photo from the last visit confirms the view, and a live 3D map shows where the next component is.

- ✓ Progress counter, so no tagged component is skipped
- ✓ Each check logged automatically, with no re-keying
- ✓ A complete, repeatable survey every visit

→ Reduce Labor Requirements

Designed for regular field personnel, reducing dependence on specialized inspection teams.

→ Complete More in One Visit

Detect leaks, verify repairs, and create compliance records before leaving site.

→ Stay Ahead of Regulations

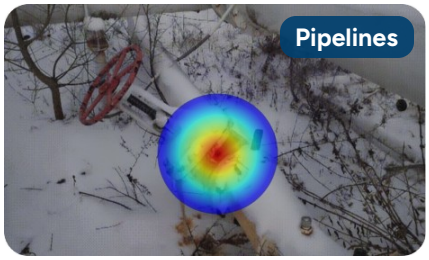
Supports EPA requirements and is designed to help operators navigate evolving methane regulations.

→ Create Audit-Ready Records

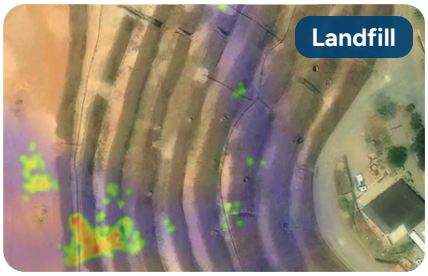
Every inspection, repair, and verification is stored in a searchable cloud database.

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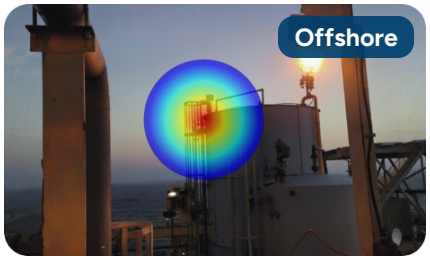
Industries & Applications



Scan long stretches quickly, flag leaks in real time, and generate GPS-tagged reports with ease.



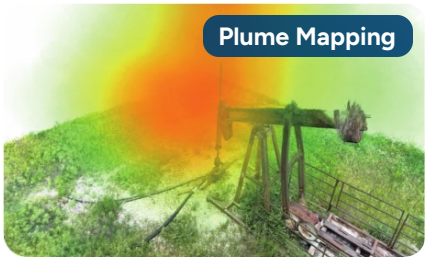
Detect methane hotspots and quantify emissions for sustainability and compliance.



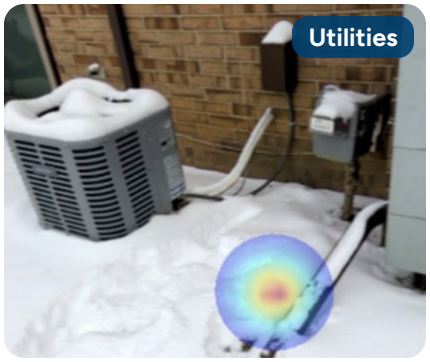
Built tough for offshore conditions. Rapid inspections reduce helicopter trips and cut OPEX.



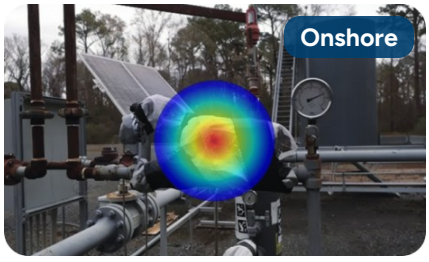
Ideal for one-time site surveys. Our handheld tech makes low-cost, scalable inspections possible — even on legacy infrastructure.



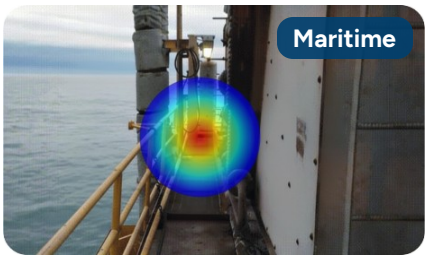
3D plume visualizations and orthomosaic imaging for situational awareness.



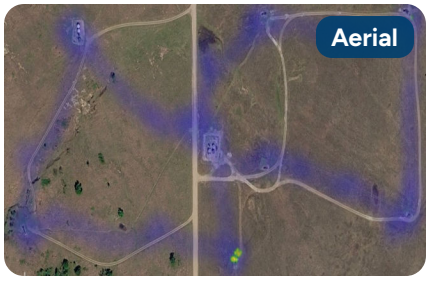
Integrate emissions monitoring into existing gas distribution maintenance cycles.



Deployable by field teams with minimal training, accelerates LDAR across multi-pad sites.



Future-forward monitoring for LNG fueling infrastructure and offshore platforms.



Drone flights scan dozens of wells per day.

Proven Solutions for Regulatory Compliance & Emissions Management

Xplorobot's platform is built to help operators stay ahead of global methane regulations — streamlining emissions detection, reporting, and audit-readiness in one handheld device.

International, State & Provincial Approvals	EPA OOOOa/b/c	EPA Subpart W	European Methane Regulations	OGMP 2.0 Levels
US EPA, TX, PA, CO, UT, WY. Germany, Canada (Alberta, British Columbia) as an OGI camera replacement	An Alternative Test Method for OOOOa/b/c, Subpart W	Meets 40 CFR Part 98.234(a)(3) for equipment-level leak verification	Ready for the new EU monitoring and LDAR requirements	Supports source & site level detection and reconciliation

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Find It. Fix It. Prove It.

Traditional methane inspections often involve multiple tools, disconnected workflows, and manual reporting. Xplorobot connects the entire process from detection to compliance documentation, providing real-time, reconciled source-level and site-level perspectives.

THE FOUR STEP WORKFLOW

Detect

Visualize methane emissions in real time and identify leak locations quickly.

Tag

Create component-level digital records directly from the field.

Verify

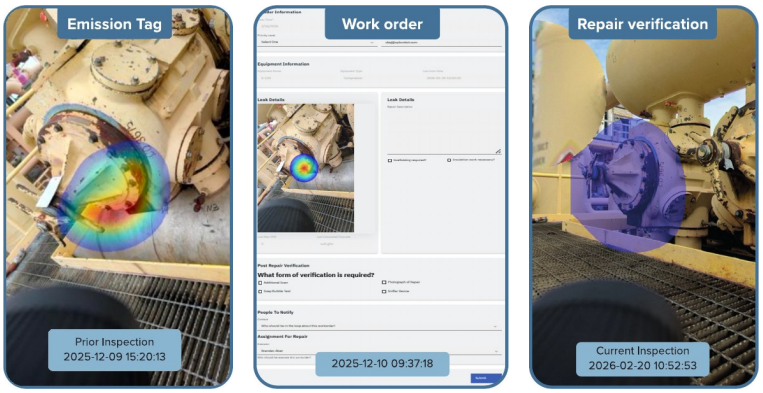
Confirm repairs immediately and document results before leaving the site.

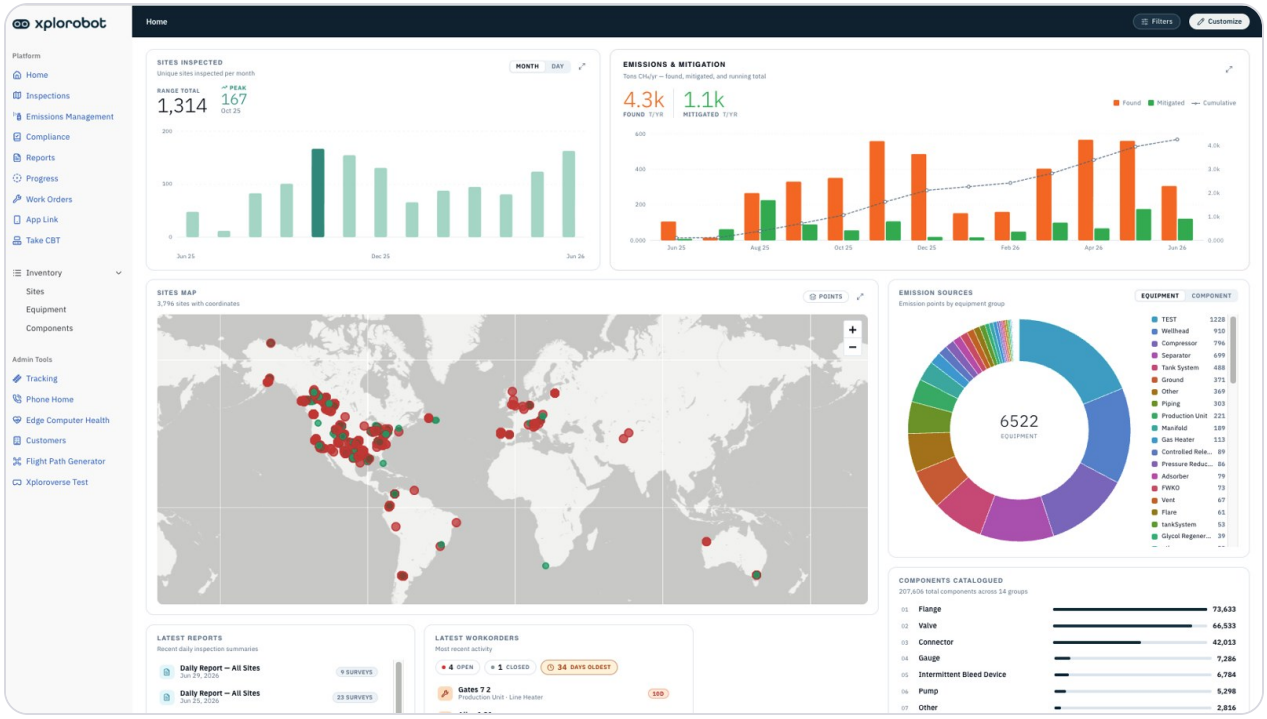
Report

Generate organized, audit-ready records automatically through the cloud platform.

Reduce the headache of tracking detect → repair → verify workflows

Work orders, tracking and verification are programmed into the app and the dashboard.





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Methane Detection as Simple as Using a Smartphone

Automated component identification speeds inspections.



Performance at a Glance

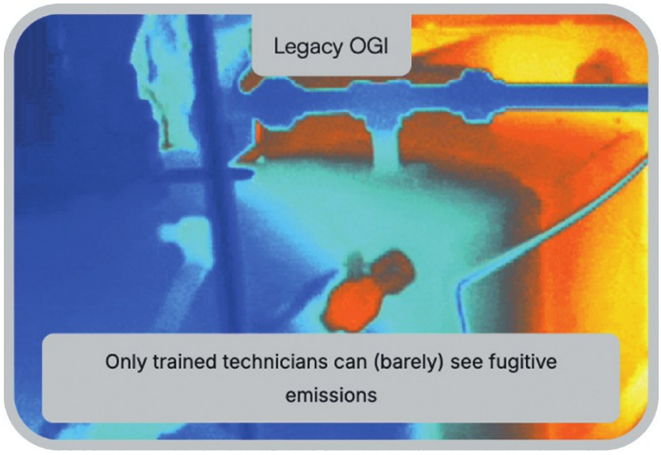
- Highest accuracy hand-held: 98% Probability of Detection (METEC); <1.5x Factor Uncertainty in Quantification (GTI)
- 0.04 grams/hour minimum detection level – EU LDAR Type 2 (GTI)
- >50 m detection distance
- 0–100,000 ppm-m detection range
- 5 ppm-m minimum detection threshold
- Detection method: Tunable Diode Laser Absorption Spectroscopy (TDLAS)
- CE Certified. Intrinsically Safe / ATEX option available
- Wireless and GPS connectivity via iPhone

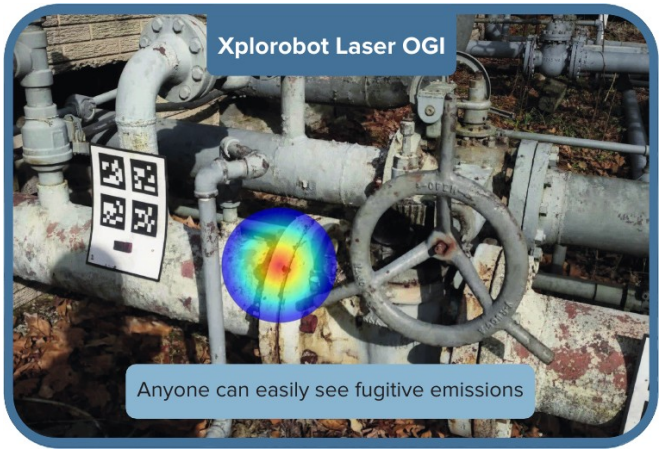
Why Teams Choose Xplorobot

- Real-time methane visualization
- Component-level records
- Automated reporting
- Cloud-based compliance database
- Handheld and drone deployment
- No specialized certification required

How is Xplorobot Laser OGI better than Legacy OGI cameras?

Legacy OGI systems are built for specialists. They're expensive, hard to operate, and offer limited visibility that often misses small leaks. Xplorobot changes that. Our Laser OGI device is designed for everyone — bringing precision, ease of use, and crystal-clear visualization into the hands of any operator.





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Built for the Field.
Trusted Across the Industry.

Our customers aren't just meeting standards — they're setting them.

From independent operators to multinational producers, Xplorobot helps energy teams stay compliant, cut emissions, and scale LDAR programs with confidence. Whether onshore, offshore, or beyond oil & gas, our customers rely on our platform to streamline inspections and stay ahead of regulations.





5,000+
Industrial sites catalogued

79
Corporate customers

26
Countries

5
Continents

> This technology has the ability to leapfrog camera-based OGI at about half the cost and provide a digital twin, a 3D model, at the same time. … I could teach you or anybody in five minutes how to use it. So I'm excited because it shows if you have a leak exactly where it is, how much it is, and then shows you where you didn't have a leak, and it has a digital record.

Paul Espenan
Senior Vice President EHS&R at Diversified Energy

18,000+
Pieces of equipment catalogued

900,000+
Components catalogued

8,000+
Emission sources catalogued

2,500+
3D point clouds linked to imagery, inspection history, sensor measurements, and drone and robot navigation paths

Transform Your Emission Detection Now

xplorobot.com

Don't let emissions management slow you down. Connect with us to see Laser OGI in action and discover how it aligns with your operational needs.

Let Xplorobot be your partner in achieving operational excellence and regulatory compliance.

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