

LYNRED launches PICO640S Broad Band 7-14: a new uncooled infrared detector for Optical Gas Imaging to support climate action

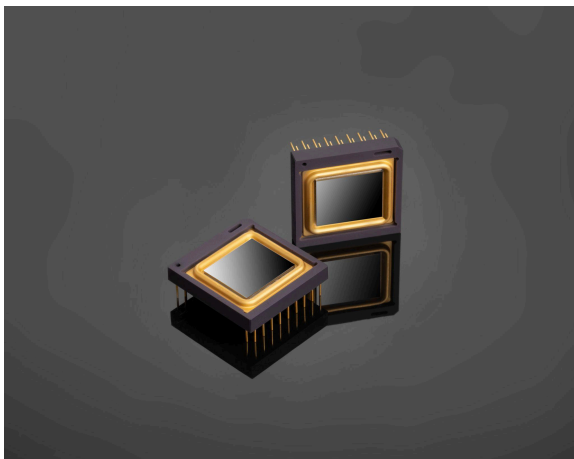
An accessible, high-performance solution for methane leak detection

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LYNRED, a global leader in infrared (IR) imaging technologies, announces the launch of the PICO640S Broad Band 7-14, a new uncooled infrared detector designed for Optical Gas Imaging (OGI) applications. Primarily aimed at applications for oil and gas industry, the PICO640S BB 7-14 offers an affordable, high-resolution solution for continuous greenhouse gas leak detection, helping actors to improve safety, and to reduce their environmental footprint from exploration through distribution. It is specifically intended for Oil and Gas facilities (natural gas treatment and gathering lines, underground natural gas storage installations, etc.), industrial sites (natural gas treatment plants, oil refineries, etc.) and petrochemical facilities (wells, transmission, storage and distribution pipelines, etc.)

Pinpointing emissions at the source

Installed in fixed surveillance systems monitoring valves and pipelines, the PICO640S BB 7-14 allows operators to detect thin gas emissions, via source-level leak identification, hence ensuring early and quick maintenance reaction.



With its extended 7-14 μm spectral range, the detector is optimized for greenhouse gas detection, including methane (CH_4), sulfur dioxide (SO_2), and sulfur hexafluoride (SF_6). It features:

- High sensitivity (NETD of 30 mK) for early-stage leak detection,
- VGA resolution (640 x 480) for image quality and range,
- Low power consumption (<130 mW) for embedded systems.

Complementing cooled solutions

PICO640S BB 7-14 complements ideally LYNRED's EOLE cooled solution, designed for on-site high performance mobile inspection, enabling operators to measure and quantify leak rates. Therefore EOLE is a perfect answer to the new upcoming regulations (EPA OOOOs and EU 1787), while PICO640S BB 7-14 is best suited for 24/7 leak monitoring.

This complementary approach provides oil and gas operators with a complete toolkit for LDAR (Leak Detection and Repair), combining preventive monitoring and precise measurement capabilities.

The latest [annual report from the International Energy Agency \(IEA\)](#) highlights that methane emissions from the energy sector continue to rise. Methane is responsible for about 30% of global warming, according to international climate studies. Optical Gas Imaging (OGI) is increasingly recognized as a key method for detecting fugitive emissions. By enabling quick, non-invasive visualization of gas emissions, it helps industries:

- Reduce environmental impact,
- Improve safety and operational efficiency,
- Reduce financial leaks.

The PICO640S BB 7-14 will be available for sampling by June 2025.

A dual offering for a dynamic market

PICO640S BB 7-14 and EOLE reflect LYNRED's strategic response to the dual market demand for precision and scalability in gas detection. Together, they provide manufacturers and integrators with solutions tailored for both Continuous Emissions Monitoring Systems (CEMS) and mobile diagnostics, without technological trade-offs.

"With PICO640S BB 7-14, we are helping our customers meet the new environmental challenges", explains Nadia Souhami, Uncooled Product Division Director at LYNRED. "This launch reinforces LYNRED's commitment to providing solutions that support the global effort to mitigate greenhouse gas emissions."

About LYNRED

LYNRED, alongside its subsidiaries LYNRED USA, LYNRED Asia-Pacific and New Imaging Technologies (NIT), is a global leader in designing and manufacturing high quality infrared technologies for aerospace, defense and commercial markets. It has a vast portfolio of infrared sensors that covers the entire electromagnetic spectrum from near to very far infrared. Its products are at the center of multiple military programs and applications and are key components in many top brands in commercial thermal imaging equipment sold across Europe, Asia and North America. LYNRED is the leading European manufacturer for IR detectors deployed in space.

www.lynred.com

Press contacts

Virginie Raison - Oxygen

+33 6 65 27 33 52

virginie@oxygen-rp.com