

mirSense raises €7M to industrialize production of its miniature lasers and gas sensors

- *French deeptech company mirSense designs ultra-precise quantum cascade infrared lasers for applications in defense, industry, and environmental monitoring.*
- *Its miniaturized technologies offer advanced optical countermeasures to protect aircraft and enable unmatched precision in the detection of harmful gases.*
- *mirSense now aims to accelerate the development of mirChip, its miniature gas sensor designed to prevent toxic gas leaks at sensitive sites.*

Paris, April 23, 2025 – [mirSense](#), a pioneering deeptech company specializing in quantum cascade lasers and miniature gas sensors, today announces a €7M Series A funding round. The round is led by Safran Corporate Ventures, alongside Supernova Invest, Polytechnique Ventures, and Crédit Agricole Alpes Développement (C2AD).

In a context where technological sovereignty, performance, and reliability are crucial, the startup is establishing itself as a strategic player in critical markets such as environmental monitoring, industrial safety, and defense.

Miniaturized lasers with unrivaled performance

Founded in 2015 by two physics PhDs, Mathieu Carras and Mickael Brun, mirSense develops modules based on quantum cascade laser (QCL) technology. These modules are already integrated into airborne defense systems capable of decoying missiles, as well as advanced gas detection systems for industrial environments.

Originating from the research of III-V Lab (Thales, Nokia, CEA) and IES Montpellier, the startup has become a key player in Europe thanks to a technology that combines miniaturization, robustness, and high precision. Specifically, its *powerMir* range meets the needs of optical countermeasures with high-power, ITAR-free QCLs. mirSense is currently the only independent global supplier of this strategic component, designed to equip aircraft, helicopters, or anti-missile turrets.

Meanwhile, *uniMir* is opening up new prospects in molecular spectroscopy. With high stability and enhanced precision, the solution enables targeted detection of sensitive molecules such as BTEX compounds, for both industrial and environmental applications.

Strengthening European leadership in infrared laser gas detection

This funding round marks a turning point for mirSense, which is now accelerating mass production of its *powerMir* and *uniMir* ranges, while finalizing the industrialization of *mirChip*, its miniature gas sensor designed for series integration.

A true technological powerhouse, *mirChip* embodies the company's industrial vision: a compact, precise, and robust device capable of detecting toxic gas leaks in the most demanding and sensitive environments.

To support this growth, mirSense is investing in expanding its infrastructure by upgrading its historic Orsay site, opening a new production unit in Grenoble, and strengthening its R&D center in Montpellier.

“Since its inception, mirSense has provided customers with high-level performance at a competitive cost, in increasingly compact formats. Today marks a new milestone, thanks to the renewed trust of our longstanding investors and the arrival of new strategic partners. This fundraising will allow us to make cutting-edge laser technologies more accessible and help build a safer, cleaner world.”, says Mathieu Carras, CEO and co-founder of mirSense.

“Through this investment in mirSense, Safran Corporate Ventures is supporting a French player in the development of innovative solutions to enhance our applications in the fields of military electronics, imaging and optical telecommunications.”, adds Florent Illat, Managing Director of Safran Corporate Ventures.

About mirSense

mirSense is a French deeptech company specializing in quantum cascade lasers (QCL) and high-precision miniature gas sensors. Founded in 2015, the company develops cutting-edge technologies serving the defense, industrial safety, and environmental monitoring sectors. Its lines of miniaturized infrared lasers, *powerMir* (ITAR-free) and *uniMir*, are recognized for their unrivaled performance and robustness. With its *mirChip* sensor, mirSense is ushering in a new era of embedded toxic gas detection. Based in Orsay, Grenoble, and Montpellier, the company relies on world-class R&D to build a sovereign European industry. To learn more, visit <https://mirsense.com>.

About Safran Corporate Ventures

Safran Corporate Ventures is Safran's venture capital arm, dedicated to strategic technologies in aerospace, defense, and space. It invests in innovative startups developing breakthrough solutions aligned with the Group's core businesses. Leveraging its industrial expertise and international network, Safran Corporate Ventures supports companies in scaling and industrializing their technologies.

About Supernova Invest

As the leading deeptech investor in Europe, Supernova Invest specializes in funding breakthrough innovations and high-potential technology startups, from early stages through industrialization and global expansion. The management company has recognized expertise in sectors such as digital technologies (microelectronics, quantum, robotics), healthcare, and the environment, with a portfolio of nearly 90 deeptech companies delivering strong technological impact.

About Polytechnique Ventures

Founded in 2020, Polytechnique Ventures is the venture capital fund dedicated to the entrepreneurial ecosystem of École Polytechnique. Financed by alumni, the fund supports and invests in 15 to 20 deeptech startups from the X community—whether founded by alumni, incubated at the school, or originating from its research labs. Polytechnique Ventures primarily supports teams tackling the challenges of transitioning to the world of tomorrow. Polytechnique Ventures is a Professional Private Equity Fund (FPCI) registered with the French Financial Markets Authority (AMF) and managed by Equitis Gestion, a portfolio management company, advised by Polytechnique Ventures SAS, a registered Financial Investment Advisor. Equitis Gestion is authorized by the AMF under license number GP0223. Polytechnique Ventures SAS is a member of Compagnie CIF and registered with Orias under number 20001759. Find out more on our [website](#) or on [LinkedIn](#).

About Crédit Agricole Alpes Développement – C2AD

Crédit Agricole Alpes Développement (C2AD) is a private equity advisory firm, a subsidiary of Crédit Agricole Sud Rhône Alpes and Crédit Agricole des Savoie. It supports businesses through all types of equity transactions, including venture capital, growth capital, buyouts, and shareholder restructuring, via its two funds: CADS Développement and CASRA Capital. C2AD operates across five departments (Ardèche, Drôme, Isère, Savoie, and Haute-Savoie), with offices in Grenoble and Annecy. The firm currently manages 157 portfolio investments with €122 million in assets under management.

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