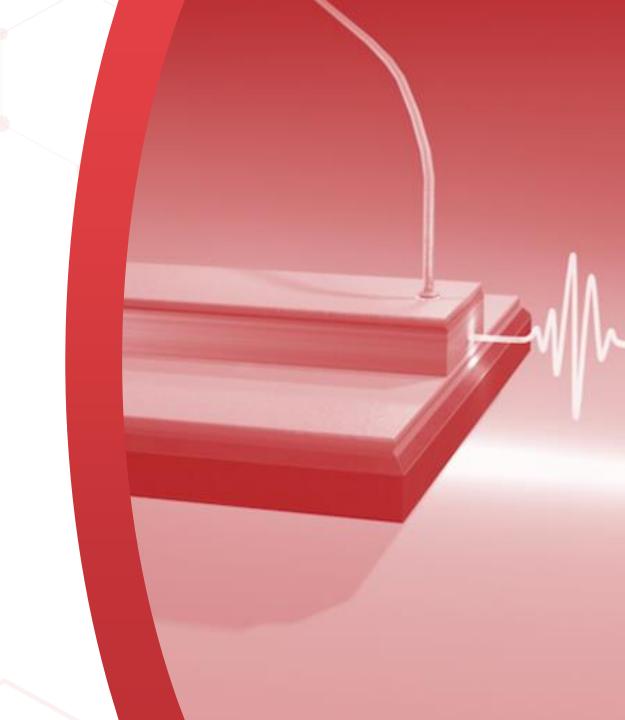


EXECUTIVE SUMMARY



MIRSENSE ADDRESSES TODAY'S MAIN SOCIETAL CHALLENGES: ENVIRONMENT & SAFETY

CONTEXT

Major strategic environmental and safety issues call for a dense, large-scale sensor network, to monitor or ensure:

- · CEM, Process control, GHG & Air quality (CO2, CH4, CF4, H2O, NOx, NH3, Formaldehyde)
- · Worker safety (CH4, CO, NH3, H2S, Benzene)
- Airborne security (dissemination of manpads)
- Road safety (ethanol)

PROBLEM

Mid-Infrared laser-based sensors are needed to ensure adequate monitoring of those issues, but have serious limitations:

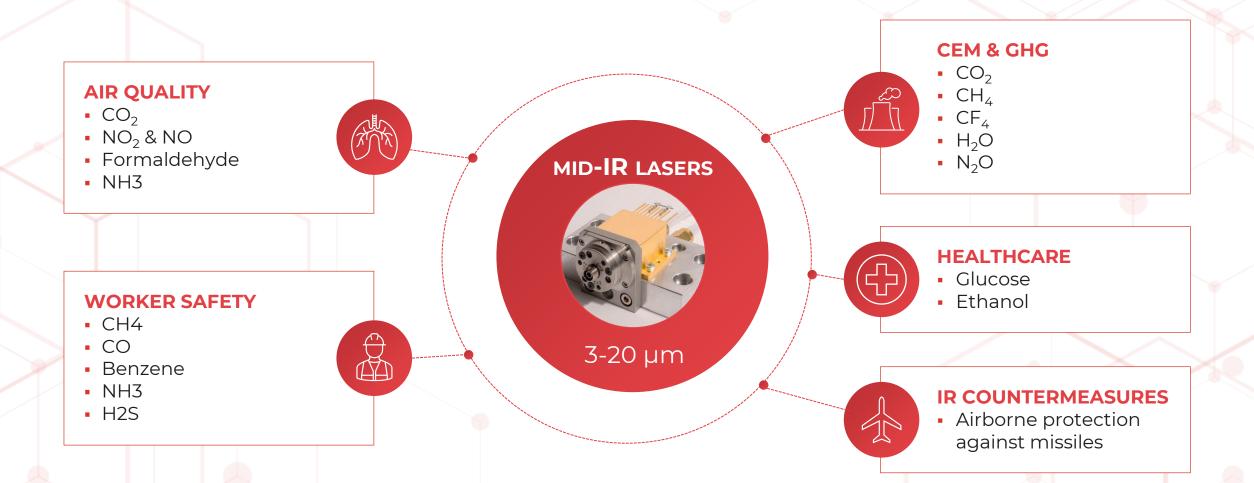
- The are far too expensive (x 10 k USD)
- They are not suitable for embedded applications, in terms of compactness & robustness

MIRSENSE'S SOLUTION

mirSense provides unique, disruptive, patented Quantum Cascade Laser (QCL)-based sensors to unlock the potential of mid-IR laser-based solutions

- Our integrated solutions are 100x less expensive and more compact, designed for embedded applications
- mirSense's addressable market exceeds USD 2 Bn / year

MID-IR LASERS EMIT IN THE 3-20 μM WAVELENGTH BAND, WHICH IS OPTIMAL FOR KEY MOLECULE DETECTION AND FOR INFRARED COUNTERMEASURES



QCLS ARE TAKING OVER THE MID-INFRARED LASER MARKET

 Quantum-Cascade Lasers (QCL) are semiconductor laser diodes that have unique mid-IR detection properties

SPECTROSCOPY

Gas detection & Molecular spectroscopy

QCL have replaced other mid-IR laser solutions (leas-salt lasers, fiber lasers, Gas lasers, OPO*), thanks to a much better combination of compactness, affordability as well as wavelength availability & purity

The new frontier for QCLs is to achieve integration into embedded solutions through miniaturization and cost-reduction

DIRCM

Directional IR Countermeasures QCL have won out over other technologies such as OPO* thanks to their compactness, affordability and power efficiency (> 10x)

The new frontier for QCLs is to increase emission power to expand its application to any airborne and ground platform

MIRSENSE IS IN POLE POSITION FOR QCL-BASED EMBEDDED SOLUTIONS

We drastically reduce QCL cost



- 10-fold reduction of chip cost
- Ability to integrate nonpackaged lasers
- Only player to cover the full mid-IR spectral range



Compactness x100 Unit price ÷ 100



Industrial & business maturity:

- 100 000 installed laser chips production capability
- More than 50 clients have validated our lasers
- 20 sensors validation projects

The first smart QCL ASIC

- Unique ASIC design for all QCL applications
- ~100-fold cost reduction vs. complex electronic boards

MEMS microphones as a mid-IR detector



- Unique integration skills of photo-acoustics with QCL
- ~1000-fold cost reduction vs. complex optical detectors

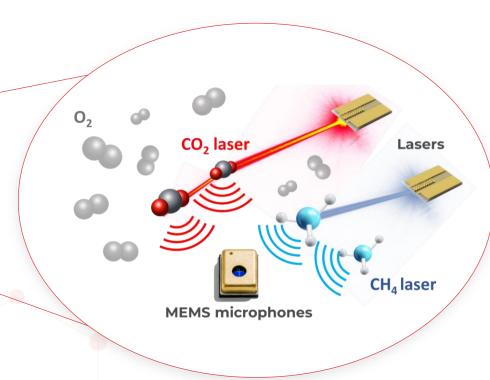




MIRSENSE'S UNIQUE QCL INTEGRATION WITH PHOTO-ACOUSTICS

 Using QCL chips and MEMS microphone, we can build a QCL Module based on photo-acoustics (sound induced by laser excitation)

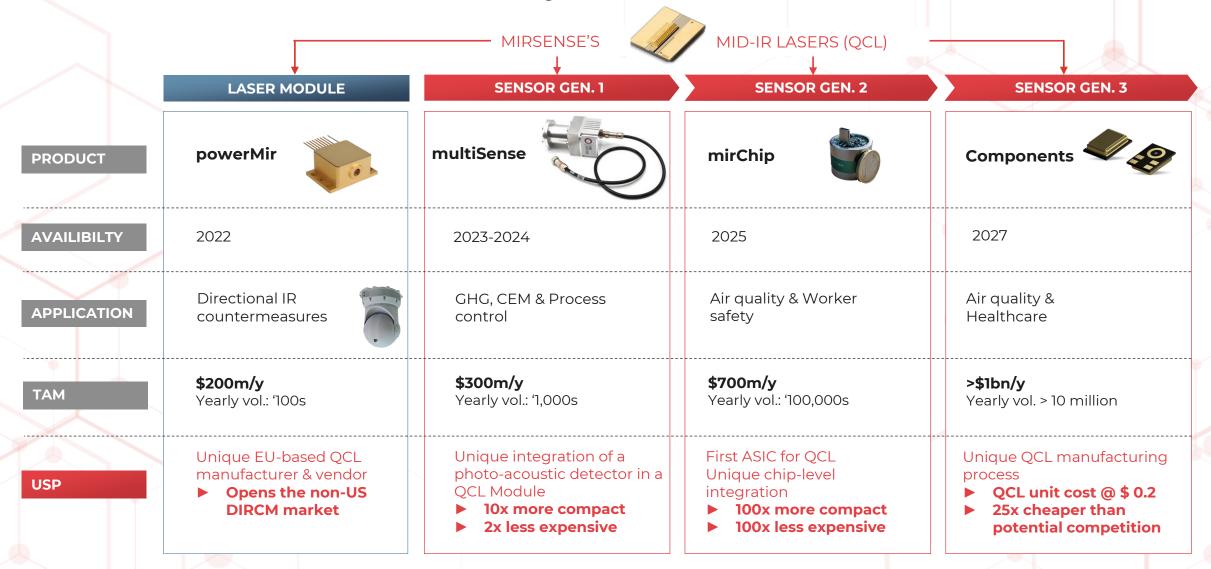
MIRSENSE SMART MODULE 1cm



Advantages of Photo-acoustics

- Extreme compactness: A breakthrough solution for embedded applications, without degrading sensitivity
- Low cost: MEMS-based photo-acoustics leads to a cost reduction by a factor of 1.000
- Performance: Delivers the performances of laser-based spectroscopy
- Multi-gas: Several laser chips on the same sensor, each for a given gas (acoustic multiplexing)

MIRSENSE WILL DISRUPT THE AIR-QUALITY AND GAS DETECTION MARKETS



A TEAM OF 26 INDIVIDUALS, INCLUDING THE FOLLOWING MANAGERS













- R&D engineers
- 7 Manufacturing & Test
- 4 Sales & Marketing
- 4 Management & Admin

FINANCIAL PROJECTIONS •

 Gross margin on product sales: 60% at maturity

EBIT Breakeven point in Q1 2025

MILLIONS OF EUROS	2023	2024	2025	2026	2027	2028	2029	2030
REVENUES	3.0	5.9	11.1	22.6	50.4	78.0	106.5	127.0
SALES	1.8	4.5	9.5	21.1	48.8	76.3	104.8	125.2
Incl. PowerMir	1.5	3.4	6.7	13.5	20.7	23.7	25.0	28.0
Incl. MultiSense	0.2	1.0	2.2	3.4	9.1	15.6	23.5	32.0
Incl. MirChip	0.0	0.0	0.2	3.2	16.0	32.7	51.3	59.4
Incl. Other	0.0	0.1	0.3	1.0	3.0	4.2	4.9	5.8
OTHER REVENUES	1.2	1.4	1.6	1.5	1.6	1.7	1.8	1.9
cogs	-0.3	-0.8	-2.6	-6.1	-16.3	-29.9	-44.3	-52.3
As a % of Sales	10%	14%	23%	27%	32%	38%	42%	41%
OVERHEAD	-3.2	-4.7	-6.8	-9.4	-15.2	-20.2	-24.9	-30.1
EBITDA	-0.5	0.4	1.8	7.1	18.9	27.9	37.3	44.6
Amortization & Depr.	-0.1	-0.3	-0.6	-0.8	-0.8	-0.9	-1.0	-1.1
EBIT	-0.6	0.0	1.1	6.4	18.1	27.0	36.3	43.5
NET PROFIT AFTER TAX	-0.7	-0.2	1.2	5.4	13.8	20.5	27.5	32.9

MIRSENSE PLANS TO RAISE €5M

- To finance mainly its CAPEX & Commercial growth
- Free Cash Flow breakeven point in early 2026

KEY INVESTMENT CONSIDERATIONS

WE ADDRESS TODAY'S TWO MAIN SOCIETAL CHALLENGES

- Greenhouse Gases & Air quality
- Security & Safety

UNIQUE, DISRUPTIVE, PATENTED TECHNOLOGY SOLUTIONS

MARKET OPPORTUNITY: OVER USD 2 Bn / Y



HIGH INDUSTRIAL MATURITY

- 100k lasers produced & tested
- Secured roadmap to mass production

HIGH-GROWTH IN RECURRING SALES

- €1.8m sales in 2023
- Pipeline of €4,5m sales in 2024 (€2m backlog)
- Direct & indirect sales in Europe, Asia & the US

SHORT TERM PROFITABILITY

• EBITDA breakeven in 2024

