



## Key Features

- Turnkey analyser – ready to operate out of the box
- Compact and rugged design, suitable for lab and field use
- User-friendly software for real-time data visualization
- Low power consumption (<30 W)
- Lightweight design (<6 kg)
- Fast warm-up time (<15 min)
- >8h autonomous operation (option)
- 4 simultaneous detection (option)

## Turnkey Solution for Rapid Field and Lab Evaluation

To enable fast, meaningful, and user-friendly evaluation of our QCL-based photoacoustic gas sensing technology, MirSense has developed a compact and versatile turnkey analyser integrating the MIRCHIP X OEM sensor.

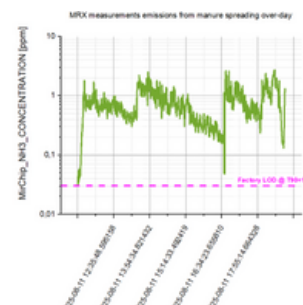
This plug-and-play analyser allows users to experience the performance of the MIRCHIP X under real-world conditions — both in laboratory setups and rugged field environments.

Designed for flexibility, the Demo Kit simplifies installation and data collection, ensuring quick deployment and efficient testing in any environment.

A dedicated software interface allows users to easily visualize sensor data along with analyser parameters such as temperature, pressure, and flow, ensuring a complete and intuitive testing experience.

## Applications

- On-site validation and field trials (agriculture, industry, process monitoring...)
- Laboratory performance evaluation and benchmarking
- OEM feasibility and integration testing
- Multi-gas detection and R&D demonstrations



Field application example: Ammonia daily measurements from manure spreading

## SPECIFICITY

Parameter	Category	mirSense Specification
Power Supply	Série	14/26V
Power Consumption	Série	25W
Maximum Power	Série	55W
Batteries	Option	288Wh LiFePo
Ambient Temperature	Série	0 - 40°C
Ambient Humidity	Série	< 85% RH non condensing
Flow Rate	Série	40 - 200mL/min
Fittings / Connectors	Série	4mm push-in fitting
Warm-up Time	Série	13 minutes
Weight with Batteries	Série	6kg
Weight with Batteries	Option	10kg
Dimensions	Série	542x402x220(mm)
Backpack	Option	Carrying straps
Operating System	Série	Raspbian
Data Output	Série	Internal storage, USB
Connectivity	Série	Ethernet, Wifi
Limit Of Detection $3\sigma$	ppb	$\leq 25$ with 10 s averaging time