

Sniffer4D

TDLAS Methane Sensing & Mapping System

Quantitative Methane Detection at 1 ppm Resolution

Specifically Designed for DJI M30 Series and DJI Docks

The new industrial and structural designs provide less weight and smaller size, allowing the system to be integrated with DJI M30 series aircraft and DJI Dock. The all-new quick-release mount minimizes the prep time and maximizes the operational efficiency. The system uses state-of-the-art Tunable Diode Laser Absorption Spectroscopy (TDLAS) detection method, achieving exceptionally high detection resolution.

When using with DJI Dock, the system is able to further reduce routine data collection costs for oil & gas, HAZMAT response, and carbon detection applications, opening infinite possibilities.

*Response to Methane within Seconds
1ppm Ultra-high Detection Resolution

*Conforming to GBT33672-2017



* Advanced real-time data visualization and analytical software

* Real-time intuitive & insightful information for decision-making



Seamless Integration with DJI M30 Series Aircrafts

- With the new quick release design, users can attach the system to or detach the system from DJI M30 within seconds.
- The system fully supports DJI Payload SDK. Only a single cable is needed for powering the system and data transmission between the system and DJI M30.
- The real-time methane concentration readings are directly shown on DJI Pilot App.



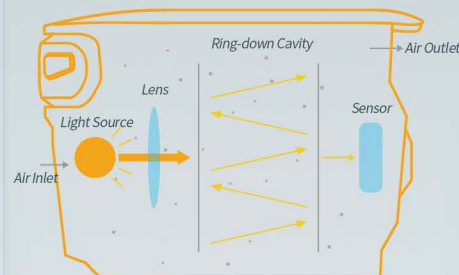
Compact yet Beautiful Industrial & Structural Design

- Ultra Lightweight**
With a size of 109x103x73mm and a weight of no more than 300g, the TDLAS Methane System maximizes the flight time of the aircraft.
- Sensitive to Methane (CH₄) Only**
The state-of-the-art TDLAS detection method offers exceptional gas selectivity, making the system only sensitive to methane (CH₄).
- Real-time Warning**
The front and rear warning lights have large visible angle. The color automatically changes according to the methane concentration, notifying on-site personnel about the risks in real-time.



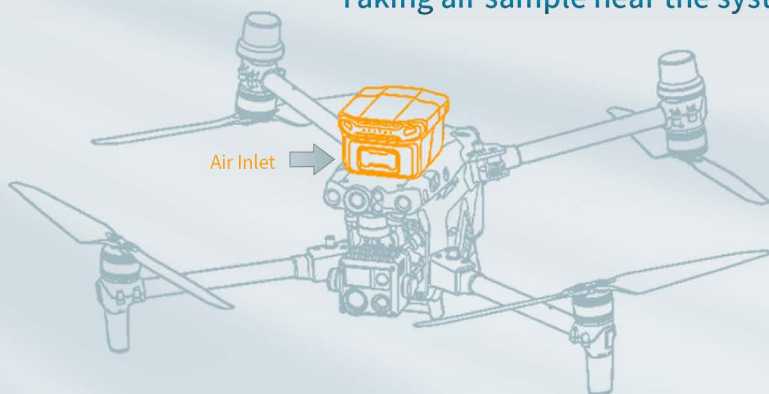
State-of-the-art Tunable Diode Laser Absorption Spectroscopy (TDLAS) Detection Method

- Shortened response time to only a few seconds.
- 1ppm ultra-high detection resolution and minimum detection limit thanks to its high signal-to-noise ratio.
- Auto calibration at every startup.



* As one of the emerging high resolution spectroscopy-based detection methods, the TDLAS-based detection method has been widely applied in micro quantity and substance analysis.

Taking air sample near the system



Advanced Real-time Data Visualization

Sniffer4D Mapper analytical software supports both real-time and post-flight data analysis, providing intuitive & insightful information for decision makers.

Real-time concentration value display



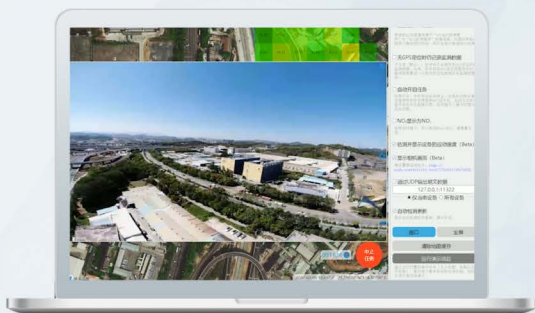
3 types of gas concentration distribution maps



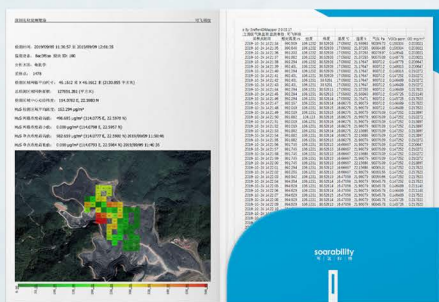
Unlimited data transmission range via built-in 4G



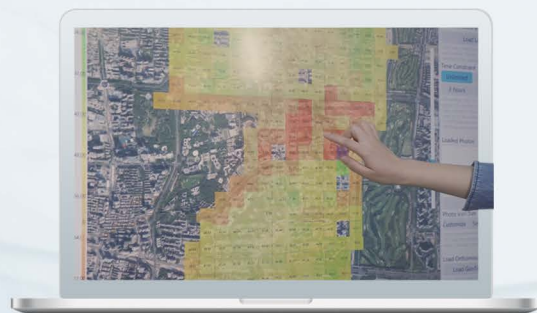
Real-time aircraft camera feed



One-click report generation



Post-flight analysis



Typical Applications



Pipeline Inspection



Carbon Emission Monitoring



HAZMAT Response



Landfill Inspection

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