

Sniffer4D V2

Professional

For Drones & Ground Vehicles



Ex-proof Rating : Ex ib IIC T5 Gb

Multi-gas Detection & Mapping System

Sniffer4D consists of a multi-gas detection hardware and powerful analytic software. This system is able to measure and visualize real-time 3D gas concentration distributions. By providing timely & actionable information, Sniffer4D helps first responders, oil & gas industry, environmental agencies, and researchers improve work efficiency, mitigate risks, and reduce costs.

»» One-stop Workflow

- Sense Up to 9 Gases at a Time

Sniffer4D is able to obtain up to 9 gas concentration distributions at one time. Users can flexibly choose or alter their sensor configurations that suit their applications and budgets.

Available Parameters

TVOC | SO2 | CO | NO2 | O3 | PM1.0 | PM2.5 | PM10 |

CxHy/CH4/LEL | H2S | HCl | TSP/PM100 | NH3 | CO2 | HCN | H2 | PH3 | HCHO

Cl2 | O2 | NO | Odor (OU) | High-resolution CH4* |

Wind Speed & Direction* | Nuclear Radiation* | Gas Sapling*

* Externally-mounted modules that do not occupy the internal space.

See Your Real-time Data, Anywhere

Sniffer4D's built-in cellular connectivity & US-based Cloud server enable secure real-time data transmission with unlimited range to decision makers in different locations.



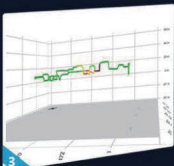
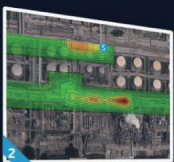
On-site

Remote Operation Center

Anywhere

Advanced Real-time Visualization

Sniffer4D Mapper software visualizes and analyzes data from one or more Sniffer4Ds in real time, providing intuitive & insightful information for decision makers.



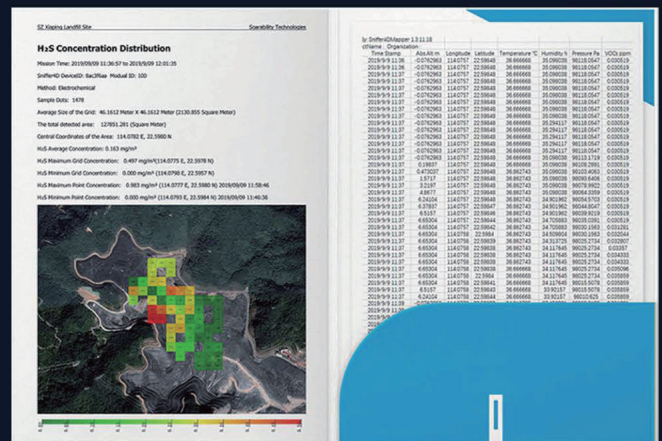
1 2D Isoline Map

2 2D Grid Map

3 3D Point Cloud

One-click Result Delivery

After a mission, simply click a button to generate a mission report containing key results, or a CSV file containing all the raw data. Reporting your work has never been easier.



More Software Features S4D Mapper

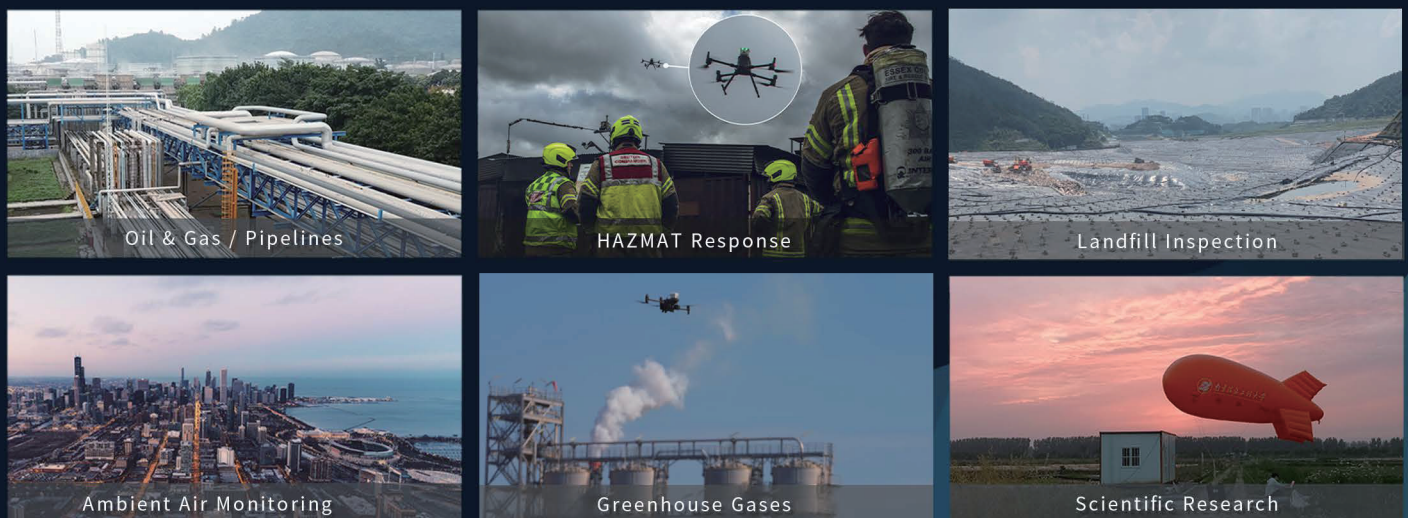
- * Display real-time working status of Sniffer4D, including device name, GNSS satellite number, relative altitude, volume of data to be retrieved. Control Sniffer4D V2's highbrightness warning LEDs, gas sampling module, and other functionalities.
- * Retrieve unreceived data during communication breakdown.
- * Display real-time measurement values and their time series graphs.
- * Generate real-time 2D grid gas/PM concentration heat map.
- * Generate real-time 2D isoline gas/PM concentration heat map.
- * Generate real-time 3D point cloud gas/PM concentration heat map.
- * Display real-time drone camera view and save geo-tagged screenshots ("Video Streaming Service" needs to be selected).
- * Estimate Fuel Sulfur Content (FSC) using proprietary inversion algorithm.
- * Support loading multiple historical data files into the software for post analysis.
- * Support loading an orthophoto (GeoTiff, WGS84) and displaying it under the concentration heat maps.
- * Support loading geo-tagged photos and showing their locations in the concentration heat map.
- * Support automatic PDF mission report generation.
- * Support exporting mission files as a CSV datasheet.
- * Track and display multiple Sniffer4Ds simultaneously.
- * Display the detailed working status of internally-mounted sensing modules inside the Sniffer4D. The user can calibrate the sensitivity (slope) and zero point (intercept) of each module.
- * Output decoded Sniffer4D data (json) using UDP.
- * Unlimited software installations and automatic software updates.

Designed for Drones & Ground Vehicles

Agile & flexible. Designed to work under motion, vibration, and EMI. Cellular connectivity enables real-time data transmission with unlimited range. Data retrieval algorithm and automatic data backup ensure data integrity to the highest level.

									
Sniffer4D + Multirotors		Sniffer4D + Fixed Wings		Sniffer4D + Ground Vehicles		Wearable			
Size 157*103*87 mm	Weight 400-500g	IPX2 Rated	Ex-proof Rating Ex ib II C T5 Gb	Cellular Connectivity	Anti-EMI Aluminum Casing	Internal Suspension Mechanism	Active Air Intake	Data Retrieval Algorithm	Automatic Data Backup in the SD Card

Typical Applications & Configurations



Exclusive Distributor:



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