soarability

Sniffer4DMini2

Multi-gas Detection & Mapping System

For DJI M30 Series Aircrafts

Sniffer4DMini2



A Multi-gas Detection & Mapping System for DJI M30/M30T

Sniffer4D Mini2 consists of a compact yet powerful multi-gas detection hardware, and user-friendly analytic software. This system can measure and visualize real-time 3D gas concentration distributions. By providing timely & actionable information, Sniffer4D Mini2 helps first responders, oil & gas industry, environmental protection agencies, and researchers improve efficiency, mitigate risks, and reduce costs.

Typical Applications



One-stop Workflow

From data collection to result delivery.

Available Parameters						
PM2.5 PM10 SO2 CO NO2 O2 O3 VOCs						
H2 Cl2 PH3 NO HCN Odor (OU)						

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.

Examples

- PM2.5, PM10, O3, NO2, CO, SO2, VOCs, Odor (OU) for ambient air monitoring;
- VOCs, CH4, CO, Cl2, O2, NO2, H2S, CO2 for HAZMAT response;
- VOCs, CH4, H2S, SO2 for oil & gas plant leak detection.



I 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.

🙏 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.



2D Isoline Map





2D Grid Map

Cone-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.

SZ Xiaping Landfill Site Soarability Technologies								
	3v: Sniffer4DMappe	r 1 3 11 18						
H ₂ S Concentration Distribution	ctName : Organiza	ition :						
	Time Stamp	Abs.Alt m	Longitude	Latitude	Temperature °C	Humidity %	Pressure Pa	VOCs ppm
Mission Time: 2019/09/09 11:36:57 to 2019/9/09 12:01:35	2019/9/9 11:36	-0.0762963	114.0757	22.59848	36,666668	35.098038	98118.0547	0.030519
Sniffer4D DeviceID: 8ac3f6aa Modual ID: 100	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.098038	98118.0547	0.030519
Method: Electrochamical	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.098038	98118.0547	0.030519
metriod. Electrochemical	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.098038	98118.0547	0.030519
Sample Dots: 1478	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.098038	98118.0547	0.030519
Average Size of the Grid: 46.1612 Meter X 46.1612 Meter (2130.855 Square Meter)	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.098038	98118.0547	0.030519
The total detected area: 127851 281 (Square Meter)	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.294117	98118.0547	0.030519
	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.294117	98118.0547	0.030519
Central Coordinates of the Area: 114.0782 E, 22.5980 N	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.294117	98118.0547	0.030519
H ₂ S Average Concentration: 0.163 mg/m ³	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.294117	98118.0547	0.030519
H2S Maximum Grid Concentration: 0.497 mg/m3(114.0775 E. 22.5978 N)	2019/9/9 11:37	-0.0762963	114.0757	22.59848	36.666668	35.098038	98113.1719	0.030519
	2019/9/9 11:37	0.19837	114.0757	22.59848	36.666668	35.098038	98108.2891	0.030519
H ₂ S Minimum Grid Concentration: 0.000 mg/m ³ (114.0798 E, 22.5957 N)	2019/9/9 11:37	1.5717	114.0757	22.59848	36.862743	35.098038	98103.4063	0.030519
H ₂ S Maximum Point Concentration: 0.983 mg/m ³ (114.0777 E, 22.5980 N) 2019/09/09 11:58:46	2019/9/9 11:37	3.2197	114.0757	22.59848	36.862743	35.098038	98078.9922	0.030519
H2S Minimum Point Concentration: 0.000 ma/m3 (114.0793 E, 22.5984 N) 2019/09/09 11:46:36	2019/9/9 11:37	4.8677	114.0757	22.59848	36.862743	35.098038	98064.3359	0.030519
	2019/9/9 11:37	6.37837	114.0757	22.59848	36.862743	34.901962	98054.5703	0.030519
	2019/9/9 11:37	6.5157	114.0757	22.59846	36.862743	34.901962	98039.9219	0.030519
	2019/9/9 11:37	6.65304	114.0757	22.59844	36.862743	34.705883	98035.0391	0.030519
\rightarrow \wedge	2019/9/9 11:37	6.65304	114.0757	22.59842	36.862743	34.705883	98030.1563	0.031281
	2019/9/9 11:37	6.65304	114.0758	22.59839	36.862743	34.313725	98025.2734	0.032807
	2019/9/9 11:37	6.65304	114.0758	22.59838	36.862743	34.117645	98025.2734	0.03357
	2019/9/9 11:37	6.65304	114.0758	22.59838	36.862743	34.117645	98025.2734	0.034333
The second s	2019/9/9 11:37	6.65304	114.0758	22.59838	36.666668	34.117645	98025.2734	0.035096
	2019/9/9 11:37	6.65304	114.0758	22.5984	36.666668	34.117645	98025.2734	0.035859
	2019/9/9 11:37	6.5157	114.0758	22.59841	36,666668	34.11/645	98015.5078	0.035859
	2019/9/9 11:37	6.24104	114.0758	22.59844	36.666668	33.92157	98010.625	0.035859
	2019/9/9 11:39	-0.0762062	1110770	00 50000	01010705	07.450001	00000.0100	0.001001
	2019/9/9 11:30							
	2019							
	20							
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More Software Features



- * Display real-time gas concentration values and temporal graphs;
- * Display Sniffer4D's working status (e.g. GPS satellite number, a ltitude);
- * Automatically retrieve data collected by Sniffer4D during communication interruption back to the software;
- * Display real-time video feed from drone;
- * Support connecting to multiple Sniffer4Ds at the same time;
- * Display real-time UAS camera view;

- * Support screen recording during missions;
- * Calculate estimated Fuel Sulfer Content (FSC);
- * Import historical mission files;
- * Import & display orthophoto;
- * Import geo-tagged photos;
- * Calibrate Sniffer4D;
- * Show demo missions;
- * Automatic update.

Seamless Integration with DJI M30/M30T

Sniffer4D Mini2's all-new industrial and structural designs bring significant reduction in its size and weight, maximizing M30's flight time. The new quick-release mount and cable connection, shorten the operation preparation time even further.





User-friendly Designs



Plug & Play

With Sniffer4D Mini2's built-in 4G connectivity, all you need to do is to plug the cable to the PSDK port on the top of DJI M30.



Status LEDs

The 6 status LEDs enable users to quickly understand Sniffer4D Mini2's working status, boosting your work efficiency.



Warning Lights

The 3 warning lights on Sniffer4D Mini2 have larger visible angle. They change color under different gas concentrations, notifying nearby people about the risks.



DJI Cloud API

Sniffer4D Mini2 supports DJI's new Cloud API, bringing unprecedented amount of visual information to the M30's large screen remote control.

Verified Data Quality



Industry leading data quality (R2 0.81-0.95) in co-location test with a scientific grade monitoring station.

Flexible & Easy Calibration

Every Sniffer4D is factory calibrated before being shipped out. We recommend re-calibrating the device every 6 months. There are generally 3 ways to calibrate Sniffer4D.



Data Learning

Compare long-term datasets from Sniffer4D and a local reference monitoring station (placed at the same location) to determine the calibration parameters.



Calibrating Gas

Inject gases with known concentrations into the calibration chamber

Local Air Quality

PM10 µg/m ³	25	PM2.5 µg/m ³	26
NO2 µg/m³	39	O3 µg/m³	23
CO µg/m³	416	SO2 µg/m³	3

Quick Adjustment

Use local AQI information to roughly determine the calibration parameters.



Founded in 2016, SZ Soarability Technology LLC is a world leader in developing drone-based environmental data acquisition systems.

As of March 2022, Soarability's products are helping users in 33 countries across 6 continents to improve work efficiency and reduce risks.



For more information www.soarability.tech inquiry@soarability.tech www.linkedin.com/company/soarabilitytech/

Product specifications may change without any notification. Soarability Technologies reserves the right of final interpretation.