soarability

Sniffer4D Nano2

Multi-gas Hyper-local Detection & Mapping System

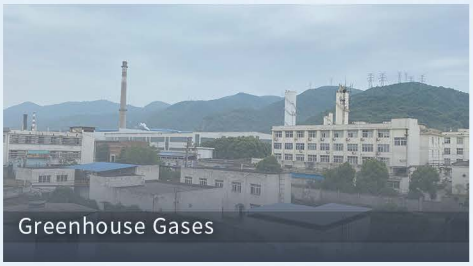
Multi-path TDLAS Hyper-local Methane Detection & Mapping System

For DJI Dock 2 and DJI Matrice 3D/3TD

Sniffer4D Nano2 Detection & Mapping System, is a state-of-art UAV-based environmental mobile monitoring solution that can be seamlessly integrated with DJI Matrice 3D/3TD and Dock 2. The compact design ensures zero interference with M3D/M3TD's obstacle avoidance functionality. With excellent magnetic compatibility, the system guarantees long-term operational safety and stability.
In addition to multi-gas monitoring, Nano2 also boasts up to 1ppm high-resolution methane measurement using contact-based Multi-path TDLAS detection method.

- Within the Max. Payload Limit of DJI M3D/3TD
- Ultra Lightweight ⩽200g
- Compact Body ⩽110*70*70 (mm)
- E-Port: Connect to DJI M3D/M3TD's E-port for Power
- DJI Flight Hub 2 Supported Data Display and Device Control
- Built-in 4G/3G/EDGE/GPRS
- Swarm Supported Multi-end Operation and Data Viewing
- Powerful Spatiotemporal Data Analysis & Visualization

Typical Applications



Available Parameters

TVOC | SO_2 | CO | NO_2 | O_3 | PM1.0 | PM2.5 | PM10 | CxHy/CH4/LEL | H_2S | HCl | TSP/PM100 | NH_3 | CO_2 | HCN | H_2 | PH_3 | Cl_2 | O_2 | NO | HCHO | Odor (OU)

Multi-path TDLAS CH4 (1ppm High-resolution)

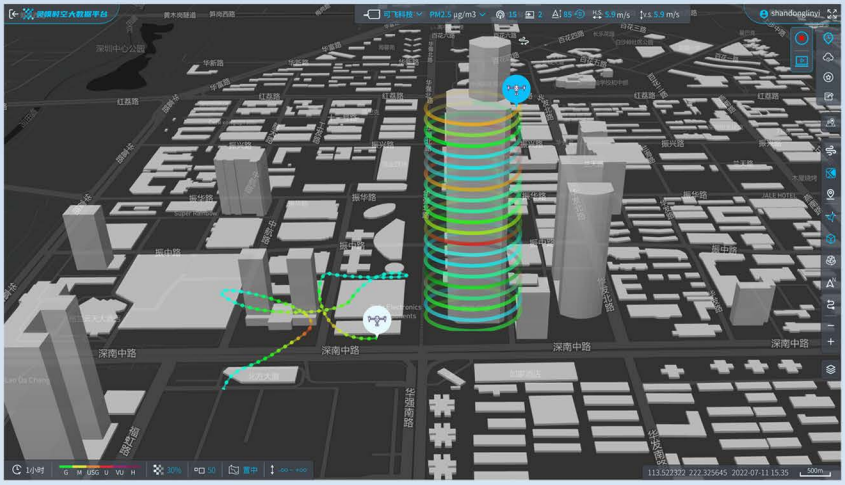
Contact Soarability if customization required.

Multi-gas Hyper-local Detection & Mapping System

Multi-path TDLAS Hyper-local Methane Detection & Mapping System

Enhanced Cross-Platform Compatibility

Ensuring streamlined and efficient data processing and management on Soarability Spatiotemporal Insights, DJI Flight Hub 2 and other third-party platforms.



Soarability Spatiotemporal Insights

The spatiotemporal big data analytical platform, Soarability Spatiotemporal Insights, boosts up advanced spatiotemporal data analysis and intelligent visualization, adeptly transforming real-time and historical spatiotemporal big data into actionable insights.

** Private deployment supported.*

Visualized Concentration Distribution Mapping

Users can adjust the size of the visualized data points in the software, and three types of visualization (2D grid/2D isoline/3D point cloud map) enhance the comprehensive understanding of target gas distribution patterns within a specified region.

Real-time Concentration Map

Drone-based detection allows users to identify hotspots and assess their impact on surrounding areas using real-time wind data.

Real-time Data Analysis

Offer a comprehensive view of real-time data from all active devices, with features that enable device ranking, concentration histogram plotting, and targeted device searches for efficient monitoring and analysis.

Historical Cloud Map - Single/Double

Manage up to a billion data points to highlight high-concentration areas and trends. Utilize Dual Mode to contrast concentration maps displaying different periods or parameters for more in-depth insights, such as assessing the effectiveness of control policies, and finding correlations between pollutants.

Historical Concentration Map - Time-lapse Animation

Generate dynamic time-lapse animations depicting concentration trends within a chosen time period, providing an intuitive visualization of environmental changes over time.

Historical Concentration Map - Multi-source Data Analysis

Harness the power of diverse Gdata sources, integrating ground measurement data from Ground-based CitySense hardware, UAV-mounted Sniffer4D measurement data, and Street View imagery. This comprehensive approach facilitates robust and thorough environmental analysis.

User-defined Locations of Interest - Points, Lines, and Areas

Soarability Spatiotemporal Insights supports defining points, lines, and areas of interest, analyzing daily/weekly/monthly/quarterly/annual data for a better understanding of concentration changes in various areas.

Report Generation - Export Editable Analysis Report with One Click

Through generating comprehensive analytical reports and highly informative animations, Soarability Spatiotemporal Insights provides a brand-new way of studying pollutant trends, and contributes to efficiency & quality improvement in the report work.

More Features

Support target setting & navigation / Display real-time UAV camera view / Support screen recording during missions / Load orthophoto (GeoTiff, WGS84) into the software / Load geo-tagged real-life photos / Cloud-based auto data forwarding / Auto software updates and more.

DJI Flight Hub 2

Sniffer4D Nano2 now offers seamless integration with DJI Flight Hub 2, enabling Sniffer4D real-time reading display and device control through PSDK connection.

Soarability Spatiotemporal Insights

The spatiotemporal big data platform supports importing historical data (.s4d or .csv format), enabling smart spatiotemporal data analysis & visualization. This empowers the responders to rapidly obtain insights from massive amount of data, thereby enhancing efficiency for better decision-making.

Sniffer4D Mapper

Sniffer4D Mapper visualizes and analyzes data from Sniffer4D in real-time, provides intuitive information (e.g. 2D/3D pollution distribution, PDF mission reports) for decision makers to improve work efficiency and reduce cost.

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