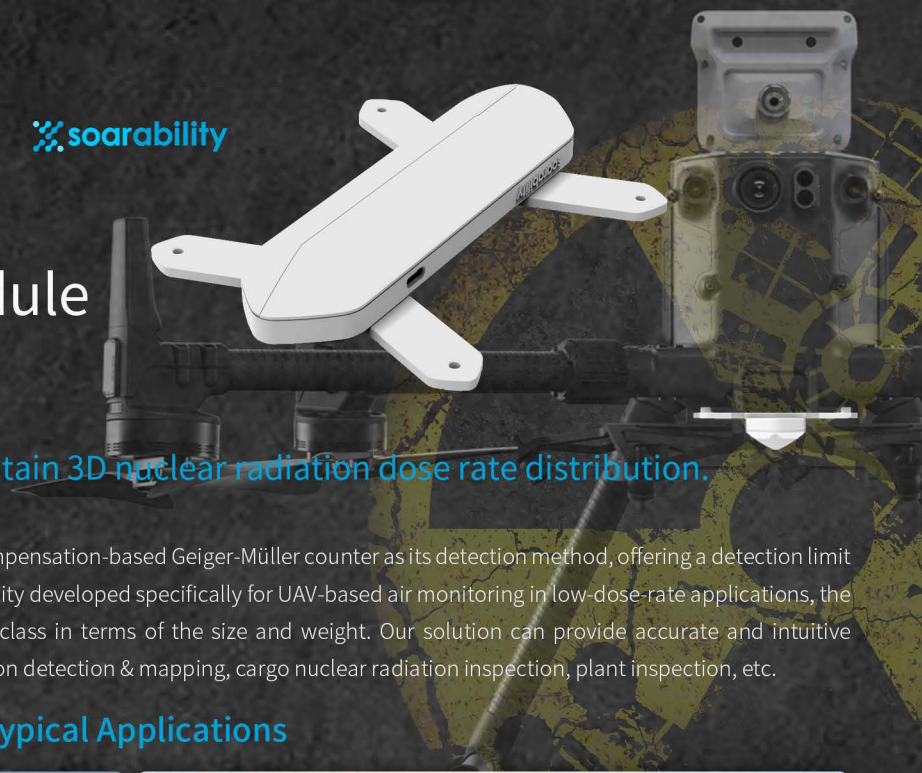


Sniffer4D Nuclear Radiation Sensing Module



A safe, efficient, and accurate way to obtain 3D nuclear radiation dose rate distribution. Assess the scene from a safer distance.

Sniffer4D Nuclear Radiation Sensing Solution uses energy compensation-based Geiger-Müller counter as its detection method, offering a detection limit up to 0.083uSv/h. Thanks to the optimized algorithm Soarability developed specifically for UAV-based air monitoring in low-dose-rate applications, the system is certified with industry leading data quality in its class in terms of the size and weight. Our solution can provide accurate and intuitive information, continuously serving users in emergency radiation detection & mapping, cargo nuclear radiation inspection, plant inspection, etc.

Typical Applications



HAZMAT Response - Emergency Radiation Detection & Mapping



Customs - Cargo Nuclear Radiation Inspection



Nuclear Power Plant - Plant Inspection



Mining - Nuclear Radiation Mapping

Low Risks

No need for on-site technical operation & avoid risks of radiation exposure.



Fast Response

Fast response and timely deployment in emergency events.



Real-time Data for Decision Makers

Sniffer4D Mapper provides insightful & intuitive 3D nuclear radiation dose rate distribution in real-time for decision makers.



Recommended Configuration:

Sniffer4D Nuclear Radiation Module + Sniffer4D V2 + UAV + Sniffer4D Mapper

Seamlessly integration with UAV platforms, Sniffer4D Nuclear Radiation Sensing System generates real-time 3D distributions of γ -ray and x-ray dose/dose rate while flying.



Energy Compensation-based Geiger-Müller Counter with High Sensitivity :
A Reliable UAV-based Solution for Nuclear Data Acquisition

Detection method Energy Compensation-based Geiger-Müller Counter	Range 0.083μSv/h~3.5mSv/h	Theoretical resolution 0.05μSv/h
Sensitivity 1.2μGy/h (60Co radiation source)	Energy range 30keV~3MeV	Power consumption 0.2W
Background level 10CPM	Operating temperature -35~80°C	Warm-up time About 40s
	Estimated service life 8.3$\times 10^8\mu$Sv (10⁹ pulses)	



Remote Operation for Safety First

With its small size and light weight, Sniffer4D Nuclear Radiation Sensing Solution allows a Max. flight time up to 35minutes for DJI M300 (with a zoom camera) and a Max. working radius of 10km in a single mission. The solution can prevent onsite personnel from the exposure risk of nuclear radiation to the most.



Quick Response & Efficient Deployment

Combined with advantages of multi-rotor UAVs (e.g. enhanced flight performance, easy taking off & landing, autonomous cruise, waypoint hover), Sniffer4D Nuclear Radiation Sensing Solution allows the crew to respond with efficiency in multiple scenarios.



Multi-dimensional Detection & Overall Assessment

In HAZMAT scenarios, Sniffer4D Nuclear Radiation Sensing Solution offers a safe, efficient, and accurate way to obtain 3D nuclear radiation dose rate distribution in real-time, providing timely actionable insights for decision makers.



Soarability

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