

NuDRONES-G COMBO

Complete Aerial Radiation Survey Solution



NUVIATech delivers a fully integrated aerial radiation monitoring solution, combining a high-performance UAV with advanced DRONES-G modules. Designed for airborne radiation surveys, emergency response, and environmental monitoring, this system ensures real-time, high-precision radiation detection and mapping. Unlike standard UAVs, it provides a complete, turnkey solution with seamless integration of specialized measurement technology.

Benefits

- Complete radiation monitoring
- Compatible with the full DRONES-G suite of detectors
- High-precision gamma mapping
- Versatile payload integration
- Modular & adaptable design
- Encrypted real-time data
- Extended mission capability
- Extreme environment ready

Key figures

20 m/s
Max. wind speed

up to 5 kg
Total payload capacity

up to 35 min
Operational flight time

Product description

The NuDRONES-G COMBO solution is a fully integrated aerial radiation monitoring system, combining advanced DRONES-G modules with a high-performance UAV platform. Unlike conventional UAVs, this solution is designed specifically for radiation detection, environmental monitoring, and nuclear safety applications.

The system integrates all DRONES-G modules (base module and special detection modules that can be attached, in various combinations according to application needs) enabling real-time, high-precision radiation mapping. This provides essential data for nuclear facilities, environmental agencies, and emergency response teams. The UAV platform ensures stable, long-duration flights in extreme conditions, while encrypted real-time data transmission guarantees secure and reliable measurements.

Thanks to its modular architecture, the system supports multiple payload configurations, including LIDAR, multispectral cameras, and gas detectors, making it adaptable for various industrial and scientific applications.

Technical specifications

UAV Carrier Platform	Airodit Explorian XLT (Multicopter, 4 Motors, RTK optional)
Radiation Detection System	DRONES-G - Gamma Detection and Spectroscopy UAV System
Payload Capacity	Up to 5 Kg
Flight Time (without payload)	Up to 60 min
Flight Time (with radiation modules)	Up To 35 min
Max Wind Resistance	20 m/s
Navigation	GPS/GLONASS/BeiDou/Galileo
Data Transmission	Encrypted Real-Time Data Link



Key applications

- Nuclear Safety & Environmental Monitoring
 - Real-time radiation mapping in nuclear facilities, contaminated zones, and large-scale environmental assessments.
- Emergency Response & Crisis Management
 - Rapid deployment for nuclear accidents, contamination detection, and radiation hazard assessment.
- Industrial & Critical Infrastructure Inspections
 - Radiation exposure monitoring around power plants, hospitals, and research centers.
- Border & Customs Security
 - Detecting unauthorized transport of radioactive materials in cargo and vehicles.
- Scientific Research & Decommissioning
 - High-resolution data collection for radiological studies, dismantling of nuclear facilities, and contamination mapping.



The NuDRONES-G COMBO solution sets a new standard in aerial radiation monitoring, providing a fully integrated, high-precision system designed for demanding applications. By combining a high-performance UAV platform with state-of-the-art radiation technology, it ensures real-time, secure, and efficient radiation detection even in the most challenging environments.

This turnkey solution enables rapid deployment, precise data collection, and reliable performance, making it the ideal choice for nuclear safety, environmental monitoring, emergency response, and industrial inspections. With its modular design, encrypted data transmission, and extended flight capabilities, the system offers unmatched accuracy, adaptability, and operational efficiency.

Related products

DRONES-G

