

Mobile CBRN LABORATORIES

IDENTIFICATION AND QUANTIFICATION OF CBRN HAZARDS AND THREATS

Mastering CBRN threats in **any situation** !



RAPID

- High mobility
- Choice of support vehicle and motorization
- State of the art CBRN sensors
- Quick and accurate analysis of threats
- Ruggedized integration
- Deployment on the move & in harsh environments
- Turn-key data analysis



SAFE

- Hot zone capability
- Automatic sampling system
- Biological containment cabinets
- CBRN air filtration system
- Redundant locking systems for samples
- Optional decontamination showers
- Pressurized rooms, work spaces and cabinets
- Multiples redundancies



COST EFFECTIVE

- Include only the relevant equipment
- Avoid complicated systems
- Minimal maintenance
- Maximal availability on the field
- Ruggedized high capability laboratory equipment
- Avoid high cost limited capability military equipment
- Achieve best cost/performance ration



EFFICIENT

- Detection of all known CBRN threats
- Plume propagation software
- Integrated communications platform
- Rapid broadcast of alerts and analysis results
- Ergonomic work environment



SPECIFIC

- Modular and custom design
- Choice of vehicle
- Choice of sensors



SIMPLE

- Integrated software platform
- Automatic analysis and communications
- Minimal training requirements
- No set-up required prior to deployment



PLATFORM

- Mobile platform range from 3.5 tons van to four axle heavy truck with 32 tons pay load
- Separated rooms with sealed doors for laboratory, safe room, driving cabin, entrance locks and decontamination shower
- Possibility of air tight rooms with CBRN filtration and overpressure
- Analysis equipment installed inside safety cabinets (level III)
- Safety cabinets with direct connection to external double entry lock for sample collection
- Automatic sampling system for air, liquid and ground

CHEMICAL DETECTION AND ANALYSIS

- Fixed and handheld chemical detectors
- Sampling kits and reactive detectors
- Mass spectrometer with chromatography (GC/MS) and extensive database
- Toxic industrial chemicals (TICs) detection of all compounds listed in NATO STANAG 4632
- Toxic chemicals from petroleum industry and VOC detection
- Chemical warfare agent (CWA) detection of all compounds listed in NATO STANAG 4632

RADIOLOGICAL DETECTION AND ANALYSIS

- Gamma / neutron spectrometer
- Alpha detectors
- X-ray detectors
- Detection in energy range according to NATO STANAG 4632

WEATHER STATION

- Wind speed and direction measurement
- Air temperature and humidity measurement
- Atmospheric pressure
- Geolocalization and bearing

DATA MANAGEMENT AND COMMUNICATION SYSTEM

- Computer server with user interface for global management of the system
- Up to 5 different communication systems
- Satellite, GSM/GPRS/Edge, TETRA, long range WiFi, direct network connection
- Possibility of full world coverage
- Communication system managed by laboratory software interface

SUPPORT SYSTEMS

- Electric power generators with redundant fail safe uninterrupted power supply
- CBRN and HEPA filtration, air conditioning and atmosphere control system
- Solid wastes decontamination and packing system
- Liquid wastes decontamination and storage system (thermal and chemical)
- Safety cabinet radio protected for nuclear material storage
- Self-protection system with video monitoring and access control
- External lighting and multipurpose masts



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