



ORITEST
www.oritest.cz

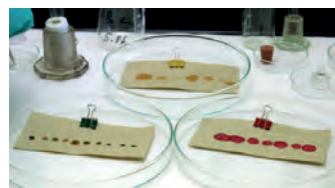
ORITEST belongs to a group of regular suppliers of products and services for specialized NBC forces, both in the Czech Army and in all civil parts of integrated rescue systems.

Our production is primarily based on our own know-how, the creator of which is a team of research and development staff.



**DETECTION KIT
ORM-17**

Design to detect presence of CWA in air, water and surfaces visually evaluating colour changes of reacting detectors.



EGO Zlín
www.egozlin.cz



Main features

Bio-bag EBV-30/40 IN/CH

Highly functional, isolation device is tested in practice in the most demanding conditions and is used to transport a person infected with a highly contagious disease or a person to whom it is necessary to ensure protection from the outer environment (typically in case of reduced immunity of the person). Over the years, the Bio-bag design solution has undergone several modifications, and its current form belongs to the best in this field.

- Complex biological protection systems
- Transport of patients with a very dangerous infection
- Decontamination systems for basic and mass decontamination
- Isolation, hospitalization of patients with dangerous infections



ICZ
www.delinfo.cz

CBRN Module

Integrating CBRN Sensors Module as a part of Battle Management System

EFFECTIVE DATA PREPARATION, PROCESSING, SHARING AND DISTRIBUTION WITHIN THE TACTICAL UNITS AND PLATFORMS.

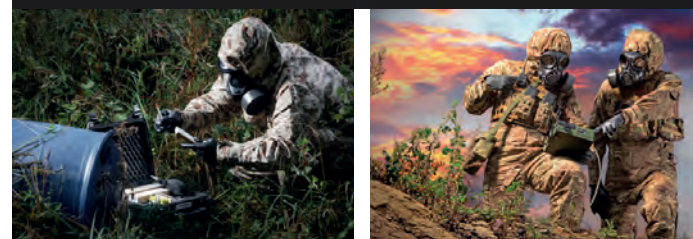
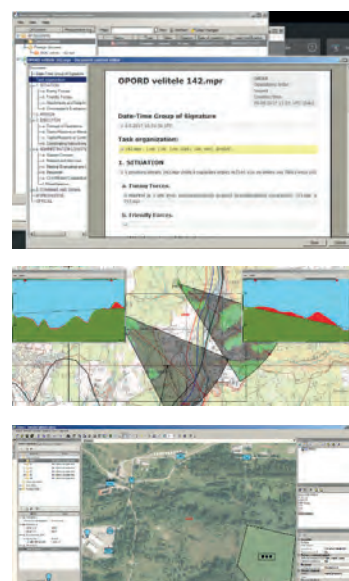
CBRN module can quickly determine the presence of nuclear, biological and chemical contamination on the ground and in the air via its sensors. This application combines specific tasks of CBRN units together with tasks of mechanized troops.

Operational description

Chemical, biological, radiological and nuclear (CBRN) reconnaissance is very important task of CBRN units of the Czech Army. These units must be able to reinforce any troop of Ground Forces so their systems must be fully interoperable.

Operational capabilities

The main advantage of this module is adaptability of sensors and wide support of existing CBRN sensors and CBRN messages, which are generated automatically. Of course there is the possibility to extend number of sensors. CBRN is a part of Battle Management System and information can be shared vertically or horizontally in chain of command or to ISR units.



AURA, AVEC CHEM, DEKONTA CBRN, DelINFO, EGO Zlín, Gumárny Zubří, ORITEST are specialists in providing reliable CBRN border protection.





GUMÁRNÝ ZUBŘÍ

www.guzu.cz

We are a purely Czech company with more than 80 years of tradition, which specializes in the development and production of products from technical rubber, thermoplastic and thermoplastic elastomers. One of our main production programs, since 1935, includes the production of full-face gas protective masks. These masks, connected to a suitable filter or breathing apparatus protects user's eyes, face and breathing organs from the effects of toxic industrial chemicals (TIC) and chemical warfare agents (CWA) in form of gases, vapors, aerosols, and against radioactive dust, bacteria and viruses.

All our protective masks are manufactured and certified according to the relevant European standards.

The company has introduced and certified quality management system according to ISO 9001:2015, IATF 16949 and an established EMS system according to ISO 14001:2015.

Business portfolio

- Dual use full face protective gas masks
- Military full face protective gas masks
- Children hood mask with ventilation unit
- Powered air purifying respirator (PAPR)
- CBRN filters
- Other accessories



AURA

www.aura.cz/en



CBRN-Analysis and CBRNE-Frontline are advanced, off-the-shelf CBRN Defence Knowledge Management Software Applications, that provide Information Management, Hazard Prediction and Warning and Reporting (W&R) capability, to efficiently support the planning and execution of operations.

AURA is the exclusive representative of the Danish company Bruhn NewTech in the Czech Republic and Slovakia. Their products are the world's leading knowledge management systems in CBRN defence.

Product Highlights

- C4i Integration
- Operational Management
- Situational awareness
- "What-if" scenarios for pre-emptive planning
- Built-in briefing generation
- NATO Compliance
- Software Maintenance
- Reduce procurement risk

Key features of the CBRN Analysis

- Support the three pillars of CBRN Defence (ATP-3.8.1) – Prevent, Protect and Recover
- ATP-45 Edition F Version 2, AEP-45 Edition E Version 1 calculations and corresponding APP-11 formats, and APP-6(D) symbology
- Provides full Situational Awareness, including briefing requirements, of the CBRN picture
- Calculation of the NATO approved Hazard Areas and Contaminated Areas for all types of CBRN Incidents (referencing Emergency Response Guide when necessary)
- Command CBRN planning and risk assessment supported by 'what-if' analysis of known or potential hazards within operational areas
- Compatible with a wide range of raster, vector, KML, and satellite image formats
- Generation of exercise planning material based on pre-planned incidents
- Support for HPAC (DTRA), and RIMPUFF (DTU) models for Reach Back
- Integrated Modules enabling Knowledge Management including Sensor Integration, Web Map Service (OGC web services with WMS data), CBRN Current Operational Picture (COP) Publisher, Computerised Assisted Training (CAX), and Language conversion



AVEC CHEM

www.avec.cz

- In business since 1994
- Over 1 million filters per year
- Customers in more than 70 countries on 5 continents
- The widest range of protective filters in the market
- Own testing laboratory for research and verification of all types of protective equipment
- Innovative approach in design and solution
- Close contact with armed forces



CBRN filters – Specially designed filters protect police, military and other professionals (e.g. civil defence and rescue squads) against the most toxic substances, which can be met during operations. The scale varies from law enforcement agents, CBRN substances to TICs including radioactive iodine and its organic compounds.

Tactical half masks – The first fully certified respirator for special operations, security actions and rescue teams. It protects its user against all range of harmful substances with the efficiency of 99,99 %. The design and structure of AVEC TAPR are dictated by the protective function and requirements for tactical applications.

CBRN permeable protective suits – Used by the military professionals, civil defence and first responders as optimal solution for protection against CBRN threats. The suits are very comfortable to wear due to their light weight and permeability. Several designs and sandwich materials are available.

ColPro filters – Designed to purify contaminated air, twinned with an internal facility overpressure to prevent the infiltration of external contaminated air into tents, shelters or mobile vehicles (such as tanks or armoured personal carriers).

Protective full face masks and escape hoods – Personal protective equipment providing protection while working in hazardous environment or escaping from emergency situations. These PPE provide superior comfort for the users, they are made from pliable but high-quality materials, which can resist the hardest conditions.



DEKONTA

www.dekontacbrn.cz



CBRN Container System

The CBRN container system is chemically resistant, vacuum with a filter-ventilation unit and is sealed against the penetration of chemicals into the environment. The device enables safe storage and transport of highly dangerous substances. The container is equipped with an internal system for environmental monitoring and inertization system, composite shielding container for storing radioactive substances. The container is also equipped with a fire-extinguishing and decontamination system.

Specifications

Dimensions: Length: 6 600 mm, width: 2 438 mm, height: 2 900 mm / Net weight: 6,730 kg /Maximum weight, with load: 12,000 kg / Power sources: Battery EVBattery, 400Ah / 24 V, semi-automatic generator 230 V / 35 A (50 Hz) / Automatic gas and foam extinguishing system)

Fogging decontamination system

Storage capacity: max. 4 IBC containers with a volume of 1 m³ (liquids) / max. 4 euro pallets with cargo / 5 tons of cargo / larger number of cylinders (in the order of tens) / in addition shelves for safe storage of small items).

A prototype decontamination device was developed by Dekonta, a.s. in cooperation with SÚJCHBO v.v.i. with the support of the Ministry of the Interior