

CBRN-Sim

Sensor simulation software with Hazard Prediction capability

CBRN-Sim provides real-time simulation of CBRN ground contamination and airborne hazards.

The software allows sensors to alarm when the presence of a simulated hazard is detected.

This permits commanders and operators to train and practice operational procedures in real-time to the response of detection readings in a CBRN environment.



During the training simulation process, CBRN-Sim can provide an instructor with the effective assessment of individual or indeed vehicle personnel as they carry out their task.

CBRN-Sim can be integrated into Bruhn NewTech's CBRN-ShipSafe and CBRN-Recon platform solutions and will trigger appropriate sensor alarms for training purposes.

Reference:

CBRN-Sim has been configured to work with a number of military platforms. One of which is the Swedish CBRN Reconnaissance vehicle. The software is fully integrated into the vehicles GPS systems. It allows the Swedish Forces to carry out field exercises without any environmentally harmful liquid simulates being used on their military exercise areas.



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Key Features

Enhanced Training Capability

One of the key assets of the software is its ability to allow any form of CBRN training to be conducted. This can be conducted in the classroom, or static on a vehicle/ship platform. By not moving the platform, this provides an environmental benefit and saves on any platform running costs. It will also work without detection sensors being switched on; this saves on valuable instrument consumables.

Complete Systems Overview

CBRN-Sim provides a full log of all operator actions including the start of any air monitoring or the placement of flags or sensors to mark any contamination. CBRN-Sim will also give the complete overview after a training session thus enabling the instructor to pinpoint specific areas of action that may need special attention or require more in-depth training.

Exercise Management

Each exercise that is conducted is stored in a scenario library which can then be played back at a later stage. When prepared for on-platform simulation, the simulation scenario is blocked from the personnel being trained. When the task or exercise is complete the instructor can download all the information to receive a visual overview of the events that had taken place and can carry out detailed analysis focusing on each area within the task.

Sensor Interfaces

The software will use actual GPS locations if required or will simulate a route or area that has to be checked. It has already been integrated with several chemical, radiological and biological detection systems and has been prepared for integration to work with other simulators and radio communications packages. CBRN-Sim will give visual and audible alarms when entering a simulated hazard environment or will alarm at the correct distances for stand-off detection. There is an additional option to ensure when the system alarms, it can send automated messages to any one of Bruhn NewTech's hazard prediction software applications.

Simulation Diversity

The product has been prepared for three main types of simulation function. The software can be used in a vehicle or on a sensor simulation platform to constantly update Training, Tactics and Procedures (TTP). CBRN-Sim also has the ability to be plugged directly into the sensor platform by use of a rugged laptop to allow direct platform feeds with real or simulated sensor data. Finally the software can be formatted to work with hand-held instruments and personal GPS and radio communications. The system can even trigger simulated casualties based on their CBRN dress state or allow hand-held detection devices to respond to a simulated hazard.

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