CBRN-Recon

CBRN sensor monitoring system for Reconnaissance vehicles

CBRN-Recon is a monitoring system that controls the sensor suite of reconnaissance vehicles.

It meets the requirements to:

- Provide overview of all vehicle CBRN sensors indicating alarms and fault/maintenance condition
- Display vehicle location in relation to expected or actual CBRN contamination
- Receive immediate warning if the vehicle enters Chemical, Biological or Radiological hazards
- Optimize use of multiple sensors to reduce false positives
- Issue information of encountered hazards to command and neighboring unit as well as joint/coalition partners
- Facilitate training based on simulated hazards in a synthetic environment

CBRN-Recon provides:

- Interface to all CBRN Sensors inside and outside
- Overview display with status of all sensors Visual and audible/intercom alarm if sensor alarms
- Detailed Display to analyze sensor output
- Display of sensor maintenance information
- Remote control of sensor configuration
- Reporting of CBRN detections using NATO formats

Reference:

Bruhn NewTech sensor integration is used in reconnaissance vehicles in the US Army NBC Stryker (PIRANHAIIIC based) and the US Joint JSLNBCRS, the UK TDP program and the Swedish and Bulgarian Armed Forces. In addition, naval variants are in use in Italy, Spain, Netherlands and Belgium.

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Key Features

Sensor Monitoring

CBRN-Recon provides overview of CBRN Hazards based on sensor results from inside and outside the vehicle. Results from all sensors are linked into the system and presented as a simple overview or as more detailed information for each sensor.

Sensor Maintenance and configuration

If sensors are in a fault condition or require maintenance CBRN-Recon displays the relevant warnings to the operator. Status on consumables can also be monitored. Sensors can be configured remotely from the software for example to change the sensor mode of operation.

Sharing of information

CBRN-Recon seamlessly feeds CBRN information to Joint Common Operational Picture by transmission of NBC reports. Reports are formatted in accordance with NATO standards to allow interoperability.

Sensor Connectivity

The system allows collection of sensor data and formatting of that data into standard CBRN messaging for further dissemination through most built-in communication systems.

Vendor Independent

CBRN-Recon interfaces to any sensor from any manufacturer. More than 25 sensors have been interfaced already and additional sensors will be integrated on request. As customers often combine sensors to find the best mix for their requirement, a single monitoring system that includes sensors from all manufacturers is required.

Situational Awareness

CBRN-Recon provides Situational Awareness of the CBRN Picture. As an optional feature for hazard management CBRN-Recon can include the NBC-Analysis Warning and Reporting System that displays a geographical overview of all CBRN Hazards compared to the vehicle position.

Simulation

CBRN-Recon optimizes training by using a realistic simulation module. Based on the hazards planned by the instructor, the sensors will react realistically when entering the simulated hazard area, either based on the actual vehicle position in field exercises or based on a simulated position for training in a stationary vehicle or in the classroom.

Hardware

Can be delivered with Mil-Spec hardware or run on existing equipment.

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