Chemical Biological Radiological Nuclear and Explosives (CBRNE) Detection Equipment Market - By System (Radiation Detectors, Spectrometers, Simulators, Others); By Detection (Chemical, Biological and Others); End User - Forecast (2015-2020)

Description: "Chemical Biological Radiological Nuclear and Explosives (CBRNE) Detection Equipment Market - By System (Radiation Detectors, Spectrometers, Simulators, Others); By Detection (Chemical, Biological and Others); End User (Defense, Aviation, Government, Others)-Forecast (2015-2020)"

The Chemical, Biological, Radiological Nuclear and Explosive (CBRNe) materials can be either weaponized or non-weaponized; wherein weaponized materials can be released using bombs or blast weapons and non-weaponized ones are identified through contamination of food, livestock and crops. CBRNe materials when released into environment are considered as hazardous materials (HAZMAT) and the devices used to detect these materials are called as CBRNe detection equipment.

The CBRNe equipment involves different systems such as spectrometers, unmanned vehicles, reconnaissance vehicles, training simulators, emergency and first response systems, radiation detectors, standoff & standalone systems, and hazmat suits & protective clothing. Hazmat suits & protective clothing and training simulators are mostly used by the armed forces. CBRNe detection equipment market in hazmat suits & protective clothing is estimated to grow at CAGR of 6.3% during the forecast period 2015-2020 due to the high demand from armed forces. The demand for the hazmat suits is also increasing in other end users to protect the civilians from the Ebola attack. Unmanned vehicles, reconnaissance vehicles and radiation detectors are majorly used by the special forces and armed forces. Training simulator systems, which are used to train the CBRNe saviors have a major share for emergency responders end use with 35% and armed forces with 26% of the total training simulators market in 2014.

In 2014, Americas was the major region for CBRNe detection equipment market across the globe. Spectrometers systems were the majorly used systems in the Americas CBRNe detection equipment market followed by hazmat suits & protective clothing.

CBRNe detection equipment is available in systems such as portable, handled, mounted and others. Portable systems and handled devices have high demand in armed forces and first responders. Mounted and fixed systems are used majorly in industries and laboratories. As the threat may be from any of the type, there are devices for different detection equipment such as chemical, biological, radiological & nuclear and explosive. Among all the detection types, chemical detection units had more demand in 2014 which is more than 4, 00,000 units. Application of the CBRNe equipment is based on the type of system, type of end user and the threat type.

The report analyses the CBRNe equipment market demand with various regions. Competitive landscape for each of the product types is highlighted and market players are profiled with attributes of company overview, financial overview, product portfolio and recent developments.

Some of the major companies that are profiles in this market are:

- Bruker Corporation,
- Smiths Group,
- Thermo Fisher Scientific
- Lakeland Industries Inc.

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