

CHAMPIONS EDITION



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The Best of 2016 ASTORS Awards

Congratulations to our Awards Program winners



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TeknoScan SYSTEMS

Sniffers used at Entrance gate of Canadian Parliament Hill for Explosives Detection

Recent attacks on Parliament Hill in Ottawa have increased the awareness to protect government institutions against possible terrorist attack. Most terrorist acts involved use of cars, trucks, vans and even containers loaded with explosives to inflict their damage. Teknoscan Systems Inc. through build in Canada innovation program (BCIP) and in collaboration with the Royal Canadian Mounted Police (RCMP) has introduced the sniffer technology to screen all types of transportation vehicles coming to the facility.



Canadian Parliament Hill in Ottawa



Sniffers at the entrance gate of Parliament



Explosive Detector inside the booth gate



taking a sample from inside the car



Sniffing the trunk of the car

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Explosives Detection at Gate of Canadian Parliament Hill

Guest Editorial by Dr. Sabatino Nacson



Officers at Parliament Hill following a deadly shooting on October 22, 2014, resulting in the death of a Canadian soldier on ceremonial sentry duty

Recent attacks on Parliament Hill in Ottawa have increased the awareness to protect government institutions against possible terrorist attack.

Most terrorist acts involved use of cars, trucks, vans and even containers loaded with explosives to inflict their damage.



(Learn More, courtesy of NBC News and YouTube)
Teknoscan Systems, an 'ASTORS' Homeland Security Awards Winner, through the build in Canada innovation program (BCIP) and in collaboration with the Royal Canadian Mounted Police (RCMP) has introduced the 'sniffer' technology to screen all types of transportation vehicles

coming to the facility. Trace Chemical Detector (Analyzer) Systems, by TeknoScan detect and identify threat substances through the sampling and analysis of trace vapors and particles in air or on surfaces.



Police taking a sample from inside the car for analysis. Using advanced Rapid Trace Detection and Identification (RTDI) solutions, they identify explosives, drugs and other target substance compounds using state-of-the-art patent pending technologies.

Sampling is carried out using a battery operated hand held sampler, to concentrate the sample onto a chemically treated, nano-carbon treated sample card which is then inserted into the sampler (analyzer.)

The officer takes a 'sniff' of the inside of the car with its occupants and the trunk before executing an analysis in the detector, which is located in an onsite booth.



(TeknoScan solutions for screening containers, ULD3 air cargo, vehicle, box, bag, mail delivery items, people, and more! Courtesy of TeknoScan and YouTube)

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Any vapor/particles released in the air inside the car environment and in the trunk area is picked up and concentrated onto the sample card.

This allows low concentration of concealed explosives and ammunition to be collected and analyzed before the car is admitted to the site.



Police Officer collecting a sample for analysis

Total process of sampling and analysis is less than 60 seconds.

Material detected includes all types of explosives including IEDs.

By incorporating new science and techniques, TeknoScan has created a more accurate and powerful, more comprehensive TCD solution.

Technologies such as gas chromatography and ion mobility spectrometry are combined with advanced signal processing techniques and a unique sample card design.



Skydome Rogers Center Toronto Canada (Image courtesy of Wikipedia)

This novel application of explosives and drugs sniffers was also deployed at the Rogers Centre,

the biggest sport stadium in Toronto for screening all cars, trucks and containers coming to the underground parking lot.

Another deployment of TeknoSan Trace Chemical Detector Systems, has been carried out at the Trump Hotel in downtown Toronto throughout the election and afterwards.

High volume air aspiration and onsite detection are poised to revolutionize the way venues guard against explosive threats.



Trump International Hotel & Tower Toronto

The biggest threat to government and private institutions comes in the form of a vehicle-borne device, trucks, containers where most of the time canine cannot access the inside enclosure of the transportation vehicle.

New technologies are helping venue operators guard against threats but need to be adapted to new threats like drone-based. Generally, the magnitude of damage delivered by drones is limited.

Whereas, bulk threat is far more reaching and present technology level can effectively deal with this type of threats.



Dr. Sabatino Nacson, CTO, TeknoScan Systems