

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.

Sampling is carried out using a battery operated hand held sampler with especially chemically treated sample card inserted into the sampler. 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 onsite booth.

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

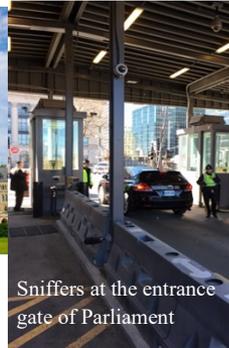
This novel application of explosives and drugs sniffers was also deployed at the Rogers Centre, the biggest sport stadium in Toronto for screening all cars, trucks and containers coming to the underground parking lot. Another deployment was carried out at the Trump Hotel in downtown Toronto especially during the election and after.

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



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

TeknoScan
SYSTEMS