

# Human Security Radar

GROUNDBREAKING TECHNOLOGY FOR  
PROTECTING CROWDED PLACES FROM  
TERRORIST ATTACK

FULLY AUTOMATED AND REAL-TIME  
HIGH-THROUGHPUT, LOW CONTACT  
SECURITY SCREENING

# Apstec Systems

**Our vision:** To be a world leading provider of innovative screening technologies for explosives, weapons and narcotics.

**Our mission:** Make the world a safer place by contributing to the fight against terrorism and war on drugs.

## Security Technology Innovation

Apstec® has established itself as an innovator in the field of real-time people screening and threat detection technology. Leading organisations in both the public and private sector work with Apstec to improve security and public safety.

After years of extensive research and development by leading experts in radiophysics, electronics, software engineering, security operations, and counter-terrorism, Apstec has developed innovative high-throughput screening technology to help secure crowded places from terrorism in a way that is practical and proportionate, allowing people to go about their daily lives without unnecessary disruption.

For the first time ever, HSR offers a genuine solution to the challenge of screening crowds in real-time for explosive devices, firearms and other weapons. HSR addresses one of the most pressing capability gaps by effectively securing vulnerable crowded places and protecting them from the threat of terrorism.

## Company milestones

- **2007** NATO Science for Peace & Security program participant
- **2009** Global Security Challenge Finalist Singapore
- **2010-12** NATO STANDEX Project
- **2011-13** US Department of Defense Tech Support Working Group
- **2013** LiveX NATO Big City Trials Project
- **2015** Extensive testing
- **2016** Mass transit proof of concept testing with International Labs
- **2017** Initial production & proofs of concept
- **2018** Full operating capability
- **2019** Sales Launch
- **2020** Expansion in over 30 countries

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## Introducing Human Security Radar – A Unique Capability

Human Security Radar® (HSR) is a fully automatic and real time security screening system that screens people entering a venue for terrorist threats without disrupting the flow. HSR does all of this whilst enabling the effective management of health risks associated with traditional security screening. HSR's main characteristics are:

- A uniquely high throughput, used operationally at up to 6,000 people per hour
- Automatic threat detection, driven by Artificial Intelligence
- Screens without the need to divest, remove coats or remove bags
- Not dependent upon metal content to detect threats, such as low metallic IEDs
- Detection of bulk explosives and inflammable liquids
- Detection of IEDs, including low metallic devices
- Detection of firearms and bladed weapons

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## Fully Automatic and Real-Time

HSR is fully automatic and operates in real time. By analysing the data returned from the inspection zone, the system is able to locate and track threat items. Alerts are presented to the responder in the form of an image of the suspect, indicating identity and where on the body the threat item is being carried.



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## Configurations and Applications

HSR can be configured to meet a wide range of customer requirements. Ideally suited to be installed at the entrances and approaches to crowded places, it can be deployed overtly to deliver a reassuring message to legitimate users and a strong deterrence effect to potential attackers or covertly to inform a more discrete response.

HSR is ideally suited to protecting places such as transport networks and hubs, landside of airports, places of worship, shopping centres, major events and entertainment venues. The technology offers an effective, functional and streamlined option to secure crowded places where conventional security measures are either not present, impractical or too costly to implement.

As HSR is a free flow, low density and low contact security screening system, it allows for social distancing and enables the health risks to be minimized. In this context, HSR is an enabler and offers a genuine safe route back for business, and provides operational resilience in the event of future health risks emerging.

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## An Innovative and Rigorously Tested Solution

Backed by years of extensive trials, and rigorous research and development by leading experts at the forefront of radiophysics, electronics, software engineering, security operations and counter- terrorism, Apstec has delivered a truly innovative capability in HSR. Since its inception, HSR has undergone numerous successful trials with leading national police forces, government agencies and counter terrorist organisations. In doing so, it has demonstrated the technology's exceptionally high accuracy rate, low false alert rate and unparalleled throughput. HSR is fully CE Certified and holds patents allowed and pending in over 40 countries world-wide.

## The Cost-Effective Solution

To cap it all, HSR's ability to detect threats and alert responders automatically, precludes the need for operators or human decision makers and offers a uniquely cost-effective solution. With no moving parts, HSR is reliable, requires little maintenance and reduces whole life costs.

## Border and Customs Applications

HSR can be configured to detect narcotics and bank notes. For Border Force and Customs applications, please see [www.apstecsystems.com](http://www.apstecsystems.com)

# Human Security Radar



Real-time /Free flow



Unparalleled High Throughput



Exceptional Accuracy



Automatic Threat Recognition



Integration Ready

## Get in Touch

Have a question? Please contact us:



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