



# HSS Falcon

The Next-Generation Screening Technology

# HSS Falcon

## A Revolutionary Solution

Apstec's next-generation screening technology, Human Security Scanner (HSS) Falcon delivers a quantum leap in security screening as the first solution able to screen people and their hand-carried / body-worn bags for explosives. The comprehensive, smart solution uniquely detects explosives, weapons, and narcotics on people and in bags.

Using a unique combination of detection technologies and sophisticated algorithms, HSS recognizes a wide spectrum of threats to provide a higher degree of security assurance. In contrast to walk-through metal detectors and weapon detection systems, HSS is NOT dependent on metallic content to detect threats such as low-metallic or non-metallic IEDs.



## One Comprehensive, Smart Solution for People & Bags

The system's breakthrough ability to screen hand-carried and body-worn bags as well as people for multiple threats and substances enables customers to streamline their security technology deployments while providing a seamless security experience for visitors, staff and the public.

Highly mobile, HSS is designed for rapid installation, relocation or removal and can be installed indoors or outdoors. A cost-effective solution, deployed in minutes, with the ability to detect threats unlike any other technology, HSS enables organizations to significantly elevate their screening operations providing paramount security assurance, exceptional agility and a superior screening experience.

People per hour

**>2500**

- AI-driven detection
- High-throughput
- Seamless, non-invasive, walkthrough
- Detects explosives, weapons & narcotics

## Customer Applications

Specifically designed for high-throughput, non-invasive screening of threats at publicly accessible locations such as:

- Entertainment Venues
- Sports Stadia
- Shopping Malls
- Places of Worship
- Exhibition & Conference Centres
- Tourist Attractions
- Theme Parks
- Corporate Headquarters
- Critical Infrastructure
- Hotels
- Mass Transport

## See How It Actually Works

Scan the QR-code to learn more about HSS Falcon and what it does, how it detects threats, and how it can improve security and the screening experience. The future of security screening is here – learn how it can be beneficial for your business.



# HSS Falcon Plus

## Discriminative Metal Detection Solution

For clients who require high-throughput, non-invasive screening to detect smaller metallic threats and wish to discriminate between these and everyday items with a very low rate of nuisance alerts, Apstec has developed a new high-throughput, Discriminative Metal Detection system. The solution accurately distinguishes between metallic threats such as firearms and knives, and everyday items such as smartphones and keys without divestment. It provides increased detection accuracy with reduced false alert rates, representing a significant advancement over traditional metal detection methods.

### Attributes include

- Detects and discriminates knives, long-bladed weapons, and different types of metallic and polymer framed firearms from everyday objects
- Improves detection of IEDs with metallic fragmentation and contained explosives
- Operates effectively in areas with high electromagnetic interference, such as mass transport hubs
- Provides selective baggage screening, particularly effective in identifying metallic threats, while maintaining flow and comfort



## Winning Combination

HSS Falcon Plus combines the power of HSS Falcon's proven Millimeter-Wave detection of explosives with Discriminative Metal Detection in a back-to-back configuration, setting a new standard in AI-driven, high-throughput, non-invasive screening of people and their belongings.

- **High Throughput** – 2500 people per hour
- **Operational Flexibility** – Indoor/outdoor deployment, compact footprint and rapid relocation
- **Low False Alert Rates**
- **Improved Screening Experience** – Seamless, respectful, and fast screening with no divestment
- **Cost-Effective** – Single-system solution with reduced staffing needs

The benefits of a comprehensive screening solution able to non-invasively screen large numbers of people and their bags for a wide range of threats in real time without having to stop and divest are manifold.

Screening people for a wide range of non-metallic and metallic threats, HSS Falcon Plus is a high-throughput walk-through solution that screens people much faster and with far less disruption than traditional screening methods. It is simple to operate, fits smoothly into the security operational process, has a compact footprint and an attractive look and feel. Cost-effective and easy to deploy, this flexible solution is suitable for multiple customer applications, indoor/outdoor use, as well as rapid relocation.

## Customer Applications

Specifically designed for high-throughput, non-invasive screening of threats at publicly accessible locations such as:

- Entertainment Venues
- Sports Stadia
- Shopping Malls
- Places of Worship
- Exhibition & Conference Centres
- Tourist Attractions
- Theme Parks
- Corporate Headquarters
- Critical Infrastructure
- Hotels
- Mass Transport

People per hour

**>2500**

- AI-driven detection
- High-throughput
- Discriminative Metal Detection
- Distinguishes between metallic threats and everyday items

## See How It Actually Works

Scan the QR-code to learn more about HSS Falcon Plus and what it does, how it detects threats, and how it can improve security and the screening experience. The future of security screening is here – learn how it can be beneficial for your business.



## HSS Falcon Highlights

<b>Placement</b>	Indoor & outdoor
<b>Throughput</b>	2500 people/hour
<b>Detection</b>	Explosives, weapons, and narcotics
<b>Screening</b>	People and their hand-carried or body worn bags
<b>Setup</b>	Mobile
<b>Installation</b>	Quick



## Specifications

<b>Width</b>	134 cm
<b>Height</b>	225 cm
<b>Depth</b>	58 cm
<b>Free passage</b>	120 cm
<b>Weight</b>	90 kg

## Installation & Operation

<b>Minimum space needed</b>	150 cm width, 258 cm depth and 300 cm height
<b>Power</b>	250 W / 100-240 VAC / 50-60 Hz
<b>Works in temperature</b>	-10°C to +55°C
<b>Humidity conditions</b>	5-90%, non-condensing

HSS Falcon may be deployed using a battery power source.

## HSS Falcon Plus Highlights

<b>Placement</b>	Indoor & outdoor
<b>Throughput</b>	2500 people/hour
<b>Detection</b>	The powerful detection of HSS Falcon plus small metallic threats such as handguns, polymer framed handguns and knives
<b>Screening</b>	People and their hand-carried or body worn bags
<b>Setup</b>	Mobile
<b>Installation</b>	Quick

## Specifications

<b>Width</b>	134 cm
<b>Height</b>	230 cm
<b>Depth</b>	156 cm
<b>Free passage</b>	90 / 120 cm
<b>Weight</b>	155 kg (DMD+HSS)

## Installation & Operation

<b>Minimum space needed</b>	194 cm width, 326 cm depth and 300 cm height
<b>Power HSS</b>	250 W / 100-240 VAC / 50-60 Hz
<b>Power DMD</b>	120 W / 100-240 VAC / 50-60 Hz
<b>Works in temperature</b>	-10°C to +55°C
<b>Humidity conditions</b>	5-90%, non-condensing





## About us

Apstec® is a Swedish owned company with a global mission to make the world a safer place by developing innovative, AI-driven screening technology.

We're a leader in security solutions, specializing in advanced security screening technologies. With a commitment to providing safe, efficient, and cost-effective solutions, our products are trusted by clients worldwide.

## Contact

If you want more information about our products, and more about us, visit **apstecsyste.ms.com** or contact us at **info@apstecsyste.ms.com**

### Book a demo

If you're interested to learn more about how the products work and how they can help your organization, you can book a demo and we'll demonstrate it for you. Drop us a line at **info@apstecsyste.ms.com** and we'll get back to you.

## The Future of Security Screening