



Apstec Falcon

The Next-Generation Screening Technology

Apstec Falcon

A Revolutionary Solution

Apstec's next-generation screening technology, Apstec 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, Falcon 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, Falcon 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, Falcon 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, Falcon enables organizations to significantly elevate their screening operations providing paramount security assurance, exceptional agility and a superior screening experience.

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
- Seamless, non-invasive, walkthrough
- Detects explosives, weapons & narcotics

See How It Actually Works

Scan the QR-code to learn more about Apstec 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.



Apstec 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 electro-magnetic interference, such as mass transport hubs
- Provides selective baggage screening, particularly effective in identifying metallic threats, while maintaining flow and comfort



Winning Combination

Apstec Falcon Plus combines the power of Falcon's proven Millimeter-Wave detection of explosives with Merlin's 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, 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 Apstec 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.



Apstec Falcon Highlights

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



Specifications

Width	134 cm
Height	225 cm
Depth	58 cm
Free passage	120 cm
Weight	90 kg

Installation & Operation

Minimum space needed	150 cm width, 258 cm depth and 235 cm height
Power	250 W / 100-240 VAC / 50-60 Hz
Works in temperature	-10°C to +55°C
Humidity conditions	5-90%, non-condensing

Falcon may be deployed using a battery power source.

Apstec Falcon Plus Highlights

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

Specifications

Width	134 cm
Height	225 cm
Depth	156 cm
Free passage	90 / 120 cm
Weight	155 kg (Merlin+Falcon)

Installation & Operation

Minimum space needed	194 cm width, 326 cm depth and 235 cm height
Power Falcon	250 W / 100-240 VAC / 50-60 Hz
Power Merlin	120 W / 100-240 VAC / 50-60 Hz
Works in temperature	-10°C to +55°C
Humidity conditions	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 **apstecsystems.com** or contact us at **info@apstecsystems.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@apstecsystems.com** and we'll get back to you.