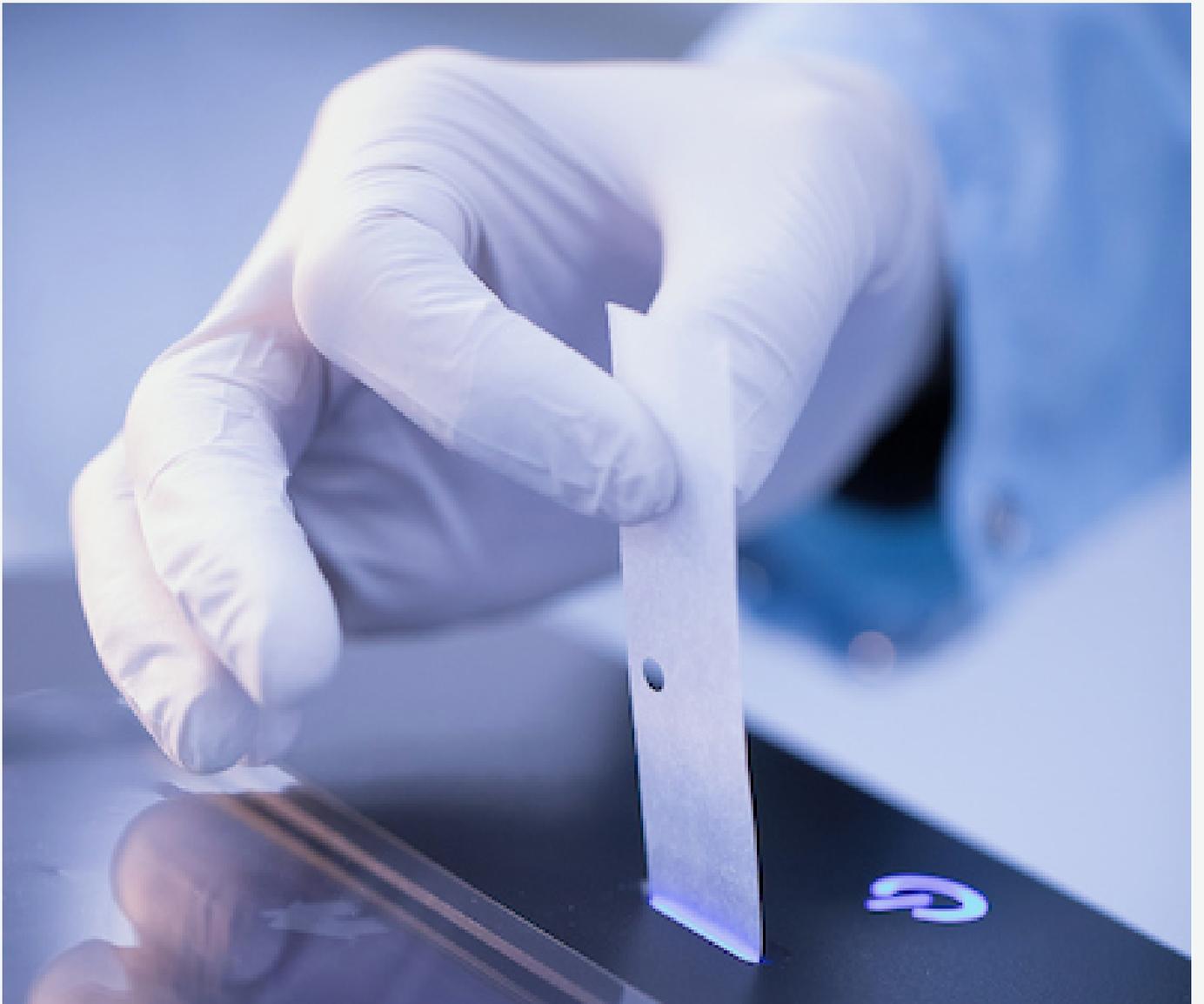


smiths detection



IONSCAN 600™

High Security Trace Detection —
Prisons and Law Enforcement

www.smithsdetection.com

EVERY TRACE TELLS A STORY. EVERY DETECTION PREVENTS A THREAT.

The IONSCAN 600™ is a globally certified, high-performance trace detector that redefines security screening in correctional and law enforcement environments. Combining non-radioactive Ion Mobility Spectrometry (IMS) with continuously updated threat libraries, it provides fast, precise identification of explosives, narcotics, synthetic cannabinoids (SPICE), and opioids, empowering teams to act decisively where security and safety intersect.

Trusted worldwide, from Australian correctional proposals to Irish and Dutch prison deployments, the IONSCAN 600™ supports professionals on the front line of contraband prevention, intelligence, and operational control.



FAST FACTS:

- **Easy-to-use interface:** Minimal training for quick onboarding.
- **Non-radioactive IMS:** License-free, globally deployable technology.
- **Low false alarms:** Trusted, decisive results every time.
- **Hot-swappable batteries:** Continuous operation, zero downtime.
- **Single-use swabs:** Hygienic, accurate, and easy to handle.
- **SPICE detection:** Continuously updated synthetic drug libraries.
- **High throughput:** Screens multiple items in seconds.

THE GLOBAL CHALLENGE: CONTRABAND IN HIGH-SECURITY ENVIRONMENTS

Contraband smuggling is one of the most persistent and complex threats facing correctional and law enforcement institutions. Criminal networks adapt constantly — concealing synthetic drugs and weapon components in clothing fibres, mail, or even liquid formulations.

The consequences extend beyond breaches of security: exposure to synthetic substances such as SPICE, fentanyl, or nitazenes can lead to severe medical emergencies for staff and inmates alike. Maintaining control, order, and rehabilitation within such environments demands technology that keeps pace with these evolving threats.

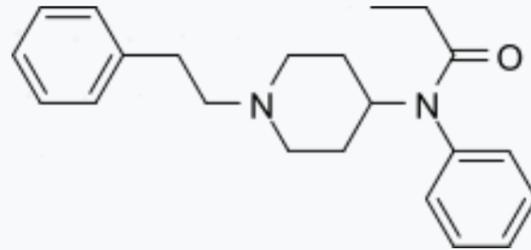
The IONSCAN 600™ delivers that capability, pairing scientific precision with operational flexibility to help facilities stay ahead of contraband evolution.



FOCUSED ON PRISON AND CORRECTIONAL SECURITY

In prisons and correctional facilities, the infiltration of narcotics and synthetic cannabinoids undermines discipline, disrupts rehabilitation, and endangers both officers and inmates. A single undetected package or contaminated letter can destabilise an entire unit, increasing violence or coercion inside. Therefore, detection at the earliest point is crucial.

The IONSCAN 600™ enables facilities to detect and deter threats before they spread, built on precision, reliability, and trust.

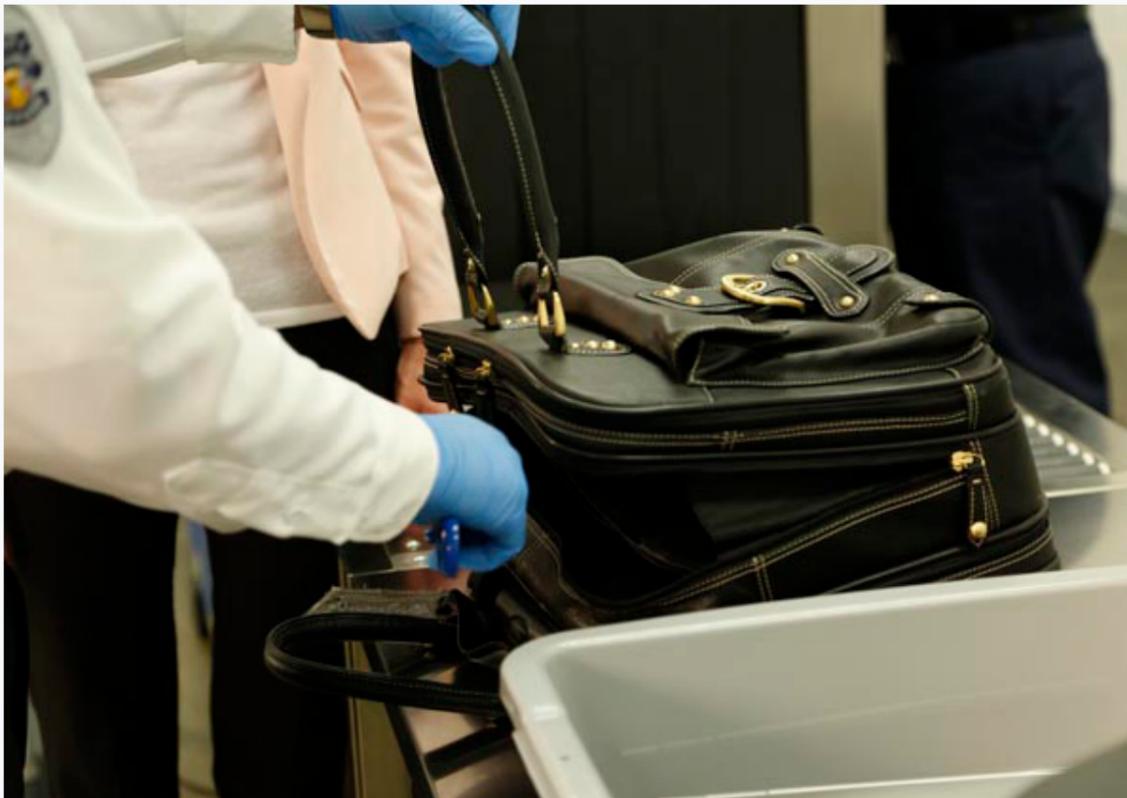


Designed for operational adaptability, it strengthens every layer of prison security:

- **Entry screening:** Trace sampling of staff, visitors, and contractors using single-use swabs or wand-based collection ensures hygiene and efficiency.
- **Mail and parcel checks:** Rapid screening of envelopes, clothing, and packages for microscopic SPICE or narcotics residues prevents substances entering through postal systems.
- **Cell and area inspections:** Swab bedding, electronics, or work surfaces during intelligence-led searches for trace narcotics.
- **Portable deployment:** Hot-swappable batteries allow screening at remote gates, workshops, or transport zones without power interruption.
- **Central monitoring:** Network integration through Smiths Detection platforms enables data sharing and reporting across multiple prison units.

Every positive detection provides actionable intelligence, helping security managers identify trafficking patterns, support investigations, and reinforce staff confidence. The result is a safer, more stable correctional environment.





FOCUSED ON LAW ENFORCEMENT OPERATIONS

For law enforcement agencies, speed and accuracy drive mission success. Whether responding to a field seizure, verifying forensic samples, or assessing threats at border points, officers need dependable, portable detection.

The IONSCAN 600™ delivers laboratory-level performance in an operationally rugged design. It supports rapid triage of unknown substances, reducing exposure risk and enabling safe evidence handling.

TYPICAL DEPLOYMENTS INCLUDE

- **Suspect and vehicle screening:** Identify trace drug or explosive residues on clothing, steering wheels, or luggage.
- **Forensic verification:** Confirm sample identity before formal lab submission.
- **Incident response:** Assess unknown powders or chemical threats in real time.
- **Operational safety:** Detect fentanyl-class substances and SPICE residues to guide protective equipment use and decontamination.
- **Border control:** Portable for customs, air cargo, or maritime inspection zones.

OFFICER PROTECTION AND EVIDENCE INTEGRITY

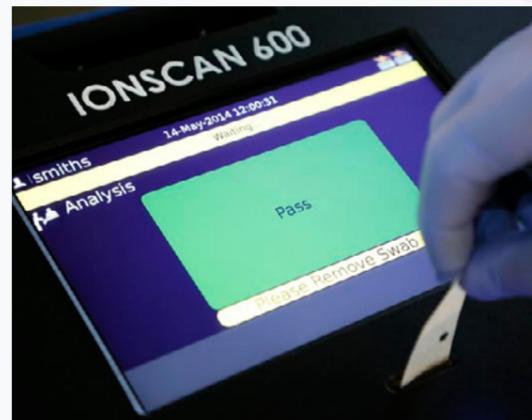
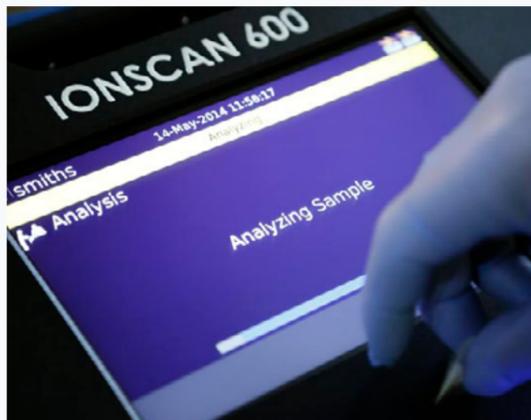
- Contactless wand sampling limits direct exposure, while fast analysis allows immediate response.
- Use double nitrile gloves and eye protection for suspected synthetic drugs.
- Positive detections inform seizure protocols, ensuring that substances are isolated, documented, and transferred safely according to the standards.



HOW IT WORKS?

IONSCAN 600™ — Simple. Fast. Reliable.

- 1. Collect:** The operator swabs a surface, parcel, or person using a disposable sampling swab or wand.
- 2. Insert:** The sample is placed directly into the IONSCAN 600™ for analysis.
- 3. Detect:** The system uses IMS to separate and identify ions within seconds.
- 4. Decide:** The touchscreen interface displays clear results, allowing immediate operational action.
- 5. Clear down:** The system resets quickly for the next scan, enabling high-throughput operations.



KEY ADVANTAGES FOR SECURITY PROFESSIONALS

Precision Detection

Industry-leading sensitivity ensures reliable identification of minute traces of narcotics or explosives, supporting evidence-based decisions and confident enforcement.

Easy-to-Use Interface

Designed for fast onboarding, the intuitive touchscreen interface requires minimal training, allowing new staff to become operational quickly. Ideal for high-turnover environments where operators are security professionals, not scientists.

Non-Radioactive IMS Source

A long-lifetime, licence-free ionisation source eliminates regulatory barriers, simplifying logistics and global mobility.

Low False Alarms

Minimised downtime and maximized operator trust in every result.

Hot-Swappable Batteries

Ensures continuous operation in field or remote environments without mains power.

Single-Use Swabs and Flexible Sampling

Easy-to-use, disposable swabs provide efficient particle pick-up while maintaining hygiene and accuracy. Operators can choose manual swabbing for fast, flexible screening or wand sampling to extend reach and reduce direct contact when inspecting bags, mail, or confined spaces.

Continuous Threat Library Updates

Smiths Detection's dedicated algorithm team continuously refines the SPICE and synthetic drug libraries to match the evolving chemical landscape, ensuring your detector stays relevant against tomorrow's threats.

High Sample Throughput

Capable of processing many items in short timeframes, the IONSCAN 600™ supports efficient screening in busy operational settings, addressing the real-world challenge of high item volumes and tight security schedules.

TECHNICAL OVERVIEW

| SPECIFICATION | DETAILS |
|---------------------|--|
| Detection Principle | Ion Mobility Spectrometry (IMS) |
| Ionisation Source | Non-radioactive, long-life design |
| Sampling Methods | Swab or wand, manual or contactless |
| Analysis Time | < 10 seconds |
| Clear-Down Time | Rapid, for high throughput |
| Power | Mains or hot-swappable battery |
| Operating Range | Broad temperature and humidity tolerance |
| Connectivity | Ethernet, 4 USB 2.0 |
| Certifications | TSA, ECAC, CAAC, IPMO |



TSA approved for air cargo screening



CAAC approved for aviation screening



ECAC approved for passenger checkpoint and air cargo



IPMO approved for security screening



STRATEGIC INTEGRATION

Where connectivity is required, IONSCAN 600™ units can be networked to provide broader intelligence, support training needs and streamline incident response.

HUMAN-CENTRIC DESIGN

Quiet operation, glove-friendly touchscreen, durable housing and auto-calibration make daily screening simpler and safer.

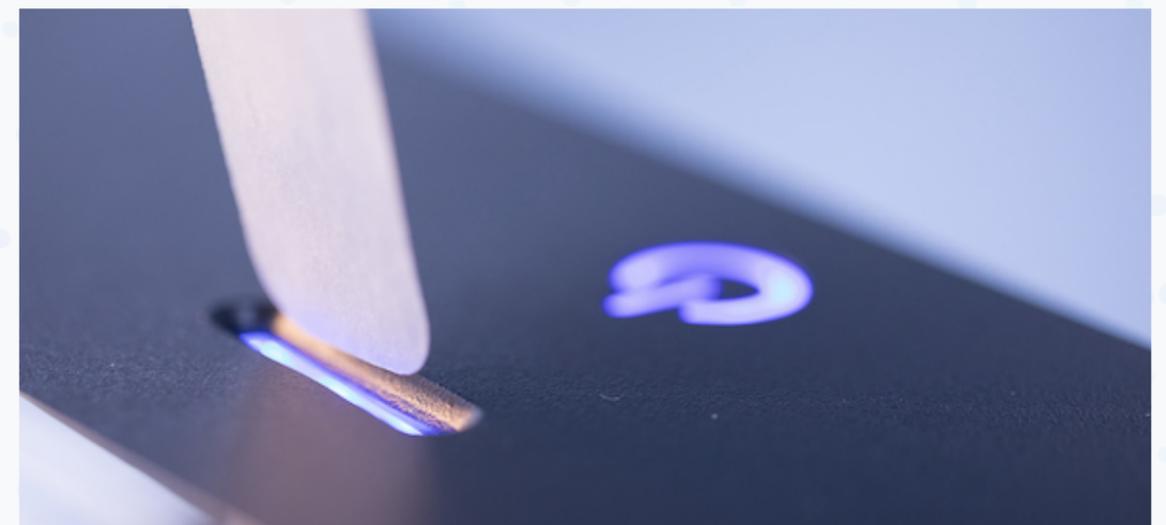
TRUSTED WORLDWIDE

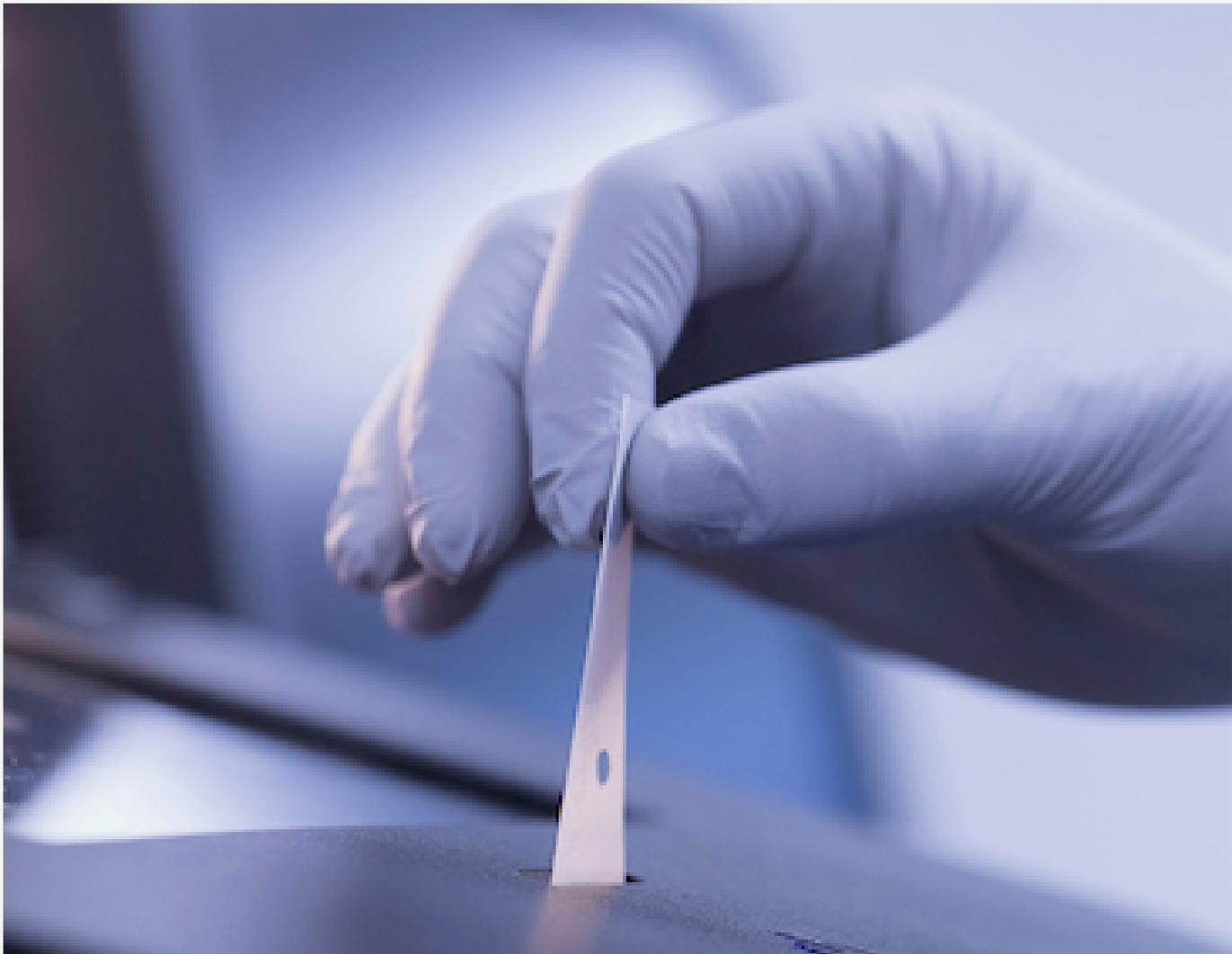
Used by security agencies in over 180 countries, including prison and police networks throughout Europe and Asia-Pacific. Ongoing algorithm development ensures alignment with emerging threats.

EMERGING THREAT COVERAGE

SPICE (synthetic cannabinoids) presents one of the fastest-evolving narcotics threats in correctional environments. Manufactured in unregulated laboratories, its composition changes frequently to evade detection.

The IONSCAN 600™'s advanced SPICE algorithm and continuously updated detection library ensure ongoing alignment with new variants. Combined with fentanyl-class opioid detection capability, it equips prison and police systems with early warning against high-risk substances responsible for escalating incidents worldwide.





Contact us

For product information, sales or service, visit:

www.smithsdetection.com

smiths detection