

EXPO CENTER

SECURITY CHECK



miniEXPLONIX Pro

Handheld Explosives Trace Detector

Rapid and reliable detection
of explosives traces

Technical



15 seconds startup time

Simple use - one-button control

Battery for 4h of continuous run

1.6" color OLED display

USB 2.0, Wi-Fi optional

Featured

- **Sensitivity** The unique, patented technology IRSSIL delivers the outstanding performance. The miniEXPLONIX Pro detects traces of all known explosives at nanogram level.
- **Dimensions** The compact housing with small dimensions is essential in harsh conditions. With a size comparable to a half-liter bottle you can carry the device on your belt all day.
- **Speed** Sudden situations demand maximum operational speed – the miniEXPLONIX Pro starts up in just 15 seconds and then it detects threats within seconds.
- **Field use** The heavy-duty case is specially designed for the use across a broad band of security forces, where a wide spectrum of tasks is encountered. Be prepared!
- **Simple control** Operation is pretty straightforward – press the button once to turn the device on, press it again to launch the scan, and press and hold to turn the device off.
- **Robustness** The miniEXPLONIX Pro is built for the toughest conditions – dust, humidity, dirt, cold, and heat. The device is highly resistant to odors and interferences.



miniEXPLONIX Pro – Powerful Detection in the Palm of Your Hand

The miniEXPLONIX Pro is a next generation explosives trace detector engineered for professionals who demand uncompromising performance in a compact form. Thanks to its exceptionally small size and low weight, it offers unmatched mobility without sacrificing detection capability.

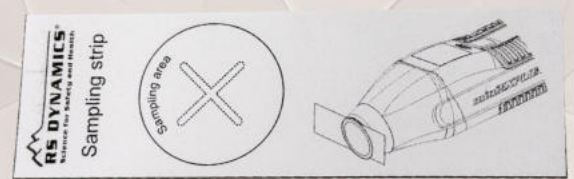
Designed for speed and reliability, miniEXPLONIX Pro delivers rapid results and outstanding performance even in challenging operational environments. Its intuitive operation and robust construction make it a trusted tool for security forces, border control, law enforcement, and critical infrastructure protection.

The miniEXPLONIX Pro is a device you can rely on when every second counts and speed is essential.

Practical

Step 1 Swab the Surface

Use this Sampling strip to collect traces of explosives from the surface of a highly exposed object that may be contaminated with residual traces.



Single use standard
Sampling strip

Step 2 Analyze the Sample

The miniEXPLONIX Pro is equipped with integrated slot dedicated for standard Sampling strips protecting your fingers from heat during desorption.

Step 3 Get the Result

The miniEXPLONIX Pro provides an instant response to the analyzed sample. After each scan, you are immediately ready for the next one - scan again without delay!



What's inside



miniEXPLONIX Pro
Detection cartridges

Li-ion battery

Belt holster

USB cable

Car charger

Wall adapter

External charger

Sampling strip packs

Functionality verification kit

Sampling Method: What Really Matters

Detecting trace amounts of explosives is a complex task due to the physical and chemical properties of most energetic materials. One of the main challenges arises from the extremely low vapor pressure of explosives such as RDX, PETN, TNT or nitrocellulose. This property limits the effectiveness of direct air sampling, often referred to as vapor sampling.

In contrast, surface sampling targets microscopic solid residues transferred to objects through handling, packaging, or proximity to explosives. These residues adhere to surfaces such as luggage, clothing, tools, or skin and are far more concentrated than airborne vapors. Surface sampling typically involves swabbing an object with a Sampling strip to physically collect explosives particles. Afterwards, the sample must be converted into a detectable form. This is achieved through thermal desorption, where the particles are rapidly heated up using a desorption heater. By decoupling sample from vapor generation, thermal desorption dramatically improves sensitivity, selectivity, and reliability.

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**Reusable Advanced
Sampling strip**

APPLICATIONS:



Defense

Explore the miniEXPLONIX Pro - a highly reliable, robust and compact instrument designed to enhance security for those on the frontlines counteracting the threat of enemy attacks.

Ports & Border Control

We offer the miniEXPLONIX Pro - a real field solution with instant detection of explosives traces found on baggage and packages. The detection of potential terrorist threats has never been easier before.



Customs

The miniEXPLONIX Pro offers an unbeatable solution for customs applications, enabling quick and reliable detection of hidden threats in packages or another cargo.

Urban Security

Terrorist threats remain present in public facilities and at public events. This creates a need for tools suitable for field applications – ideally a highly portable handheld device.



Governmental



With the miniEXPLONIX Pro, you can protect the critical infrastructure – including governmental institutions, infrastructure or logistic facilities. Whenever fast and reliable security is needed.

RS DYNAMICS LLC is a trusted Swiss developer and manufacturer of highly advanced and exceptionally mobile handheld explosives and narcotics detectors and identifiers. With a global presence, our instruments are trusted and utilized by security agencies and organizations across the world. As proud pioneers in the field, our flagship product, the miniEXPLONIX Pro, stands as the fastest, smallest, and most accurate mobile trace detector available today.



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