



Scent Detection Technologies



Mini-Nose™ 1000 Series Explosives Trace Detector



Leading Trace Detection Technology

Mini-Nose™ 1000 Series

The Mini-Nose™ is a lightweight, highly sensitive, hand-held explosives trace detector. The Mini-Nose™ delivers a combination of selectivity and sensitivity to all types of commercial, military, plastic explosives as well as improvised materials. Designed to meet the most stringent requirements of explosives trace detection, the Mini-Nose™ is the ideal solution for Homeland Security and Law Enforcement applications such as military, metro stations, airports, seaports, police, border-control, federal buildings, prisons and more.

Highlights

- Lightweight and portable
- Fast analysis time
- Quick warm-up
- Self-test and calibration
- Short recovery time
- Field upgradeability
- No radioactive source
- Low cost of ownership
- Fast training



SDT's trace detection products are a cornerstone of homeland security throughout the world

SDT has developed special expertise in manufacturing and supplying explosives trace detectors to meet the global terrorism threats and heightened homeland security & law enforcement needs. Designed to meet the most stringent requirements of explosives trace detection, the Mini-Nose™ is the ideal complement to X-ray scanners, CT machines and metal detectors.

Patented HF-QCM Technology Advantage

SDT's patented High-Frequency Quartz Crystal Microbalance (HF-QCM) technology detects a wide range of substances with great accuracy and speed. The scientific breakthroughs of the company resulted in the development of an innovative technology with increased efficiency, the main factor for determining detection sensitivity. Due to the sensors' unique design, HF-QCM technology operates in dusty, humid, and high-traffic areas, maintaining its precision performance even in harsh "real world" environments. Maintaining sensitivity in these conditions is crucial for operating on ships and at vehicle checkpoints, or first response sites. (For a detailed explanation of HF-QCM technology and its advantages, please request our technical supplement "HF-QCM: The Science Behind the Technology.")

Particle Swipe & Vacuum Sampling

A sampler equipped with a consumable filter cartridge, enables over 300 samples per single unit. A special pad is swiped across a surface, and the sample is then transferred to the analyzer. The ergonomic design allows sufficient force to be applied during the sample collection without tiring the operator. Applications include clothing, baggage, tickets, ID cards, cargo, vehicles and containers.



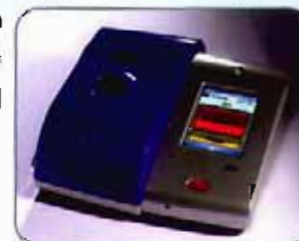
Analysis

Particles are thermally drawn directly onto the sensors for analysis and identification, then they are quickly released with a stream of air. The data is analyzed by powerful pattern recognition algorithms, which determine if the sample provides a match to any explosive materials.



Results

The results are immediately displayed to the operator - red for a detection and green for the "all-clear" - ensuring a fast and efficient peak performance. If an explosive substance is detected, the specific name or coding is identified on the display. A detection of trace indicates that an explosive device may be present or that the person may have been handling explosive materials in preparing a bomb, and further investigation is necessary.



Ultimate Solutions

SDT strives for efficiency across its Mini-Nose™ series, so field operators can easily operate analyzing stations and accessories. This enables users to gain more value from their security investment. Wide selections of accessories adapt the Mini-Nose™ to suit specific operational requirements, field usage and different working environments.

Security

- Integrated lock solution
- Password protection
- Data encryption



Mobile Flexibility

- Lightweight and portable
- DC 12V vehicle charger
- Shock resistant carry-on case (MIL-SPEC-4150J)



Reporting

- Encrypted wireless networking
- Remote printing
- Evidence printout



Accessories

- Docking station
- Stationary cradle
- Belt pouch

Smart Sampling

- Over 300 samples per cartridge
- Cost efficient
- User friendly

Applications

Designed to halt terrorist attacks as well as to enforce federal laws, SDT's products are the ideal complement to X-ray scanners and metal detectors. Renowned for its superb sensitivity, selectivity and ease of use, the Mini-Nose™ can be used in various homeland security, military and law enforcement applications.

Users	Applications	
Transportation Security		
Subway Stations	Unattended Items	✓
Railways	EDS / Canine Confirmation	✓
Airports	Passenger Screening	✓
Cargo	Containers' Inspection & Screening	✓
Seaports	Inbound International Arrivals	✓
Sea Vessels	Ship Rummage	✓
Law Enforcement		
Police	Checkpoint Security	✓
Bomb Squads	Unattended / Suspicious Items	✓
First Responders	Post Blast Analysis - Forensics	✓
Prisons	Cell Block Searches	✓
Sports & Cultural Venues	People Screening	✓
Shopping Malls	Unattended Items	✓
Military		
Army Bases	Checkpoint Security	✓
Installations	Vehicle Screening	✓
Military Airports	EDS / Canine Confirmation	✓
Conflict Areas	Roadblocks	✓
Detention Centers	Inbound Deliveries / Supplies	✓

Users	Applications	
Customs & Borders		
Land Border Crossings	Inbound International Arrivals	✓
Border Patrols	Perimeter Security	✓
Customs	Canine Confirmation	✓
Border Interdiction	Vehicle Screening	✓
High-Threat Facilities		
Critical Infrastructure	Perimeter Security	✓
Government Institutions	People Screening	✓
Federal Buildings	Vehicle Screening	✓
Nuclear Plants	Checkpoint Security	✓
Petrochemicals Facilities	Inbound Deliveries / Supplies	✓
Embassies	Checkpoint Security	✓
Postal Services	Mail Rooms - Inbound Parcels & Letters	✓

