

STI GC Detector SN – Series

Handheld / Desktop, Vapor Explosives Detector

STI has developed a proprietary substance detector using a revolutionary gas chromatograph technology. The system has conducted lab and field operation tests and showed high successes.

The collected vapors are presented to an extremely sensitive detector using a selective pre concentration gas chromatograph and electron capture technology. The unique system design, allows immediate analysis results with the capability to run multiple sequenced samples with practically no waiting time. The quick analysis results allow massive throughput needed in most security applications. The system is designed for fast recovery even after detection, allowing the user to continue using the system even after contamination which is most important for live system tests during daily use. The detector is designed to detect standard commercial, military substances and improvised compounds without any false alarms on common substances.

The system holds a US registered Patent and more Pending patents worldwide.

Application:

Government offices, embassies, airports, chemical plants, border checkpoints, correctional facilities, ground forces, power plants, sporting events, conventions, oil and gas refineries / storage depots and other sensitive sites.

Features & Benefits:

- Vapor Detection (PPT Level)
- Fast Recovery
- Highly Accurate
- Real-time Analysis
- Light weight
- Detects standard commercial substances and improvised compounds
- Simple user interface
- Audio-Visual "Go / No Go" alarm
- Portable and desktop application
- Low maintenance



Specification:

SN-Series	
TECHNOLOGY	
Technology	Full GC/ECD (Gas chromatograph with electron capture detector) with selective pre-concentrator for information concentration
SAMPLING & ANALYSIS	
Sample Introduction	Direct vapor for any suspicious objects / substances at a PPT level
Sample Phase	Full Vapor
Threats	Detects military, conventional & improvised explosives
Sampling & Analysis	Full cycle ≤8 seconds real-time detection capability
Recovery time	Few seconds after detection
Throughput rate	10 samples per 2 minute
OPERATION	
User interface	Right & Left users (180° flip screen function)
Alerts	Visible & audible alerts (mute option)
Operation modes	Manual / Auto
Auto mode cycle duration	Separate Programmable collection and detection fazes
Cleaning	Auto cleaning cycle
SYSTEM INTERFACE	
Display	3" touch screen color display
Language	English Language Operational interface (other languages optional)
Communication	Integrated USB module (MINI-B USB connector)
Data Storage	Sample data history up to 1000 screens
User Levels	Operator, administrator & technician
POWER	
Input Voltage	100-240 VAC for desktop version / 13VDC for mobile version
Battery Specs (mobile version)	Rechargeable Li-ion batteries (up to 9-hour battery life)
ENVIRONMENTAL	
Operating Temperature	-10 °C - 50 °C
Operating Humidity	No influence
Storage Temperature	-10 °C - 50 °C
PHYSICAL FEATURES	
Dimensions (L x W x H)	37.0 x 16.0 x 16.0 cm
Weight	2.0 kg
Configurations	Desktop and mobile version