SABRE 5000

Handheld Trace Detector for Explosives, Chemical
Agents and Toxic Industrial Chemicals or Narcotics

Feature Highlights

- Smallest, lightest tri-mode (Explosives, Narcotics, CWA/TICs) detector available
- Optimized detection of peroxides (used in home-made explosive devices) in vapor mode
- Faster clear down with truncated alarm
- Self-diagnostics with maintenance
- Continuous automatic vapor sampling in both positive and negative modes for CWA/TIC detection
- Protective cover with shoulder strap
- 2 hour battery

The **SABRE 5000** is the smallest, lightest tri-mode handheld system available for detecting trace amounts of explosives, chemical warfare agents, toxic industrial chemicals or narcotics. With its ability to detect a wide range of threats, it is a cost effective instrument for security professionals and military agencies that require portability and flexibility to perform their duties.

Using the Ion Mobility Spectrometry (IMS) technology the **SABRE 5000** is programmed to detect and identify over 40 threat substances in approximately 20 seconds. Threats such as common peroxide-based, volatile and unstable chemicals often used to construct IED and ammonium nitrate commonly used in home-made explosives.

The **SABRE 5000** is capable of analyzing either trace particle or vapor samples. The operator can select the best analysis method for the suspected threat to yield the most accurate analysis results. Switching between sampling modes takes seconds.

The ASV-Explosives mode offers optimized detection in both negative and positive mode for an increased range of explosives detection.

Technical Information   SABRE 5000

Specifications

Technology	Ion Mobility Spectrometry (IMS)
Radiation source	^{63}Ni, sealed 15 mCi
Sample collection	Trace particle and vapor
Operating modes	Explosives, Narcotics, Chemical warfare agents/Toxic industrial chemicals
Explosives detected	RDX, PETN, TNT, Semtex, TATP, NG, Ammonium Nitrate, H2O2 and others
Drugs detected	Cocaine, Heroin, THC, Methamphetamine and others
Chemical warfare agents detected	Nerve and blister agents such as Tabun, Sarin, Soman, Cyclosarin, Agent VX and Vx
Toxic industrial chemicals detected	Hydrogen Cyanide (HCN), Phosgene, SO, NH and others
Sensitivity	Particle: low nanogram range; Vapor: low parts per million range
False alarm rate	Less than 1%
Input voltage	12VDC, 110 VAC / 220 VAC, 50-60 Hz
Alarm type	Audio and visual, with substance identification
Display	8.89cm (3.5in) TFT color display
Language	English, French, German and Spanish
Ready time	Under 15 minutes
Analysis time	Detection in 10 seconds, complete analysis in 20 seconds
Battery operating time	4 hours
Weight	3.2kg (7lbs.) with the 4 hour battery
Size	36.3cm x 11cm x 13cm (14.5 x 4 x 4.5in)
Operating temperature range	0° to +40°C (32° to 104°F)
Operating humidity	0 to 95% non-condensing
Options	Protective cover with shoulder strap 2 hour battery