



MobileTrace™

Portable Dual Conterband trace detectionsystem Particle- and Vapor detection Art.-No. 170731

MobileTrace™ is first simultaneous dual-mode handheld detector for narcotics and explosives.



Features

Simultaneous, dual mode System for a broad range of explosives

Detects explosives and narcotics simultaneously in seconds.

Advanced user interface with a wide range of capabilities

State-of-the Art battery for long life, hot swappable for continued operation

Ergonomic design for grab-and go portability.

Easy to access components for quick maintenance

Network ready/USB compliant

Weight less than 4,3 kg

Applications

- Aviation security
- Building security
- Customs/Border crossings
- Forensic labs/Research & Development
- Law enforcement/Police
- Military
- Prisons

Simultaneous test for a wide range of explosives and narcotics. While most explosives have negative ion affinity, some important explosives have positive ion affinity. MobileTrace uses the patented simultaneous dual-mode technology of the field proven Itemiser desktop system. Historically, handhelds work in one mode at a time, and require changing certain components and additional samples to test for both types of ion. MobileTrace changes this situation entirely.

The MobileTrace graphical interface is intuitive and easy to learn for new operators. Itemiser- and VaporTracer® users will find the operating system very familiar.

Data is evaluated on a 8,9 cm colour screen using five display options:

- Select scan for a simple list of alarm/no alarm status of substances in the library
- Peaks view for a tabular form of time-of-flight and height of peaks detected.
- Plasmagram for graphical representation of peaks detected
- 3-D view and intensity map for analytical interpretation (not shown).

To accommodate a range of lighting situations, the instrument is designed with adjustable display brightness.

The instrument features sampling controls on the top and back of the system, which may help positioning the instrument easy. A handgrip and shoulder strap help ease stress. MobileTrace comes with a sampling wand for particulate collection.

MobileTrace gives you the flexibility to swipe surfaces for trace particles or to analyze vapor:

Particle Swipe: MobileTrace uses the well introduced standard GE sample traps. The Telfon® coated traps are swiped. Across a surface and inserted into the system for analysis. Typical sampling objects included clothing, skin, baggage, cargo, vehicle, containers, tickets, ID cards etc.

Vapor sampling: Vapors are drawn through a nozzle directly into the system for analysis. Typical objects included cargo containers, car trunks and luggage.

System Specification

Detector-Type: ITMS®
(IonTrap Mobility Spectrometry)

Sampling: Particle
Vapor

Analysis time: 8 seconds

Warm up time: 30 minutes to stabilize
Typical operation 27 hrs x 7

Power: 115/230V AC 50/60 Hz,
11-16 V DC vehicle adapter
Two rechargeable batteries
Li-Ion = up to 4 hrs runtime
Charger included

Temperature: 0-50°C operativ, bis 95%
-20 bis 60°C Lager, bis 95%
Luftfeuchtigkeit.

Integated computer:
Industrial grade, single board
Solid state hard disk
1 GB file storage capacity
Ethernet and USB-compatible

Signal enhancement:
8,9 cm tranflective
color display
adjustable LED backlight
4 different displays.

Substance library:
OptimizedExplosives
Optimized narcotics
Vapor mode

Dimensions:
Weight 4,3 kg incl. Batt.
Length: 409 mm
Width: 152mm
height: 315 mm

Particle sampling



Particle swipe



Analysis



Vapor sampling

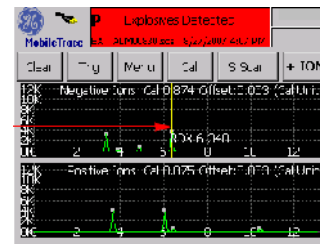
Displays

Explosives Detected	
Clear	Samp
E1	OK
E2	Detected
E3	OK
E4	OK
E5	OK
E6	OK
E7	OK
E8	OK
E9	OK

Select Scan

Drugs Detected					
Substances Detected		Time		Strength	
Substance	Ephedrine	Height	Pos	Time	Height
Neg	Time	Height	Pos	Time	Height
3.338	3.660	3.483	2.11		
4.401	292	3.987	3002		
6.267	298	4.284	287		
		7.140	405		
		7.984	619		

Peak View



Plasmagram

Specifications are subject to change without notice

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