

E4500 Mobile Self-contained Explosives Detector



E4500-PB-V1-07-2008

Introducing the E4500 Mobile Self-contained Explosives Detector from Scintrex Trace Corp., an experienced designer and manufacturer of portable explosive and narcotic detection systems.

The E4500 is the first tabletop GC-Chemilux detector, capable of identifying military, commercial and homemade explosives such as RDX, PETN, TNT and TATP.

Compact, light, battery powered and highly mobile, the E4500 is specifically designed for field operation. The unit is highly selective and resistant to environmental interferants and contaminants. It detects and identifies traces found on luggage, cars and suspect packages.

Operation

The E4500 is flexible and easy to use. No carrier gas or radioactive sources are employed (no licensing requirement).

Samples are collected by a robust, reusable metal sampling screen. Results are clearly identified on a vivid color liquid crystal display touchscreen.

Fast & Proven

The E4500 utilizes a unique high speed gas chromatography column (GC) to rapidly separate compounds prior to detection. The E4500 reliably distinguishes explosives in seconds and is fully operational within 20 minutes.

Sensitive & Selective

A variety of explosives such as C4, Semtex, TNT or TATP is detectable at sub-nanogram levels with low false alarms and few interferents. The E4500 is ideal for the detection of homemade explosives.

Compact & Lightweight

A single unit weighs less than 14 kilos (31 pounds) including accessories. The entire unit comes in a single waterproof carry case for easy transportation and set-up.

E4500



User Display
Easy to read & use

Easy to Use

Simple automatic operation, using go/no go readouts which makes the unit ideal for non-technical operators.

No Environmental & Nuclear Licensing Concerns

Fast Cleanout & Recovery after Overloads & Hits

Typical Users & Installations

- Police & Bomb Squads
- Airports
- Customs
- Military Defense
- Seaports & Containerships
- Field or Forensic Use
- Nuclear Facilities
- Embassies or Consulates
- Government Buildings

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E4500-PB-V1-08-2008

Technical Specification

DETECTION PRINCIPLE	Gas chromatography (GC)-chemilux
LICENSING	No radioactive source, no licensing required
DETECTABLE COMPOUNDS	Most military and commercial, PETN, RDX, TNT, tetryl nitroglycerin, dynamite, black powder and peroxide based explosives such as TATP
SENSITIVITY	Sub-nanogram
SAMPLING CAPABILITIES	Particle
TYPICAL SAMPLE	5-60 seconds (user selectable based on application)
ANALYSIS TIME	Within 15 seconds
CARRIER GAS	None required (ambient air)
CONTROLS	Power switch Touchscreen Volume control Automatic sample switch
OPERATIONAL STATUS	5.6 inch color graphical LCD touchscreen
DATA STORAGE	1000 retrievable data records
BACK UP STORAGE	SD flash memory provides unlimited storage
COMMUNICATIONS	RS-232 serial output port for remote control and monitoring
POWER SUPPLY	16 volt DC rechargeable battery pack 16 volt AC adapter
OPERATING TEMPERATURE	0°C to +55°C (32°F to +131°F)
STORAGE TEMPERATURE	-5°C to +65°C (23°F to +149°F)
UNIT WEIGHT	14 kilos (30.9 pounds) with battery pack and accessories
UNIT DIMENSIONS (LxWxH)	52.4x42.8x20.6 cm (20.6x16.9x8.1 inches)
SHIPPING WEIGHT	15 kilos (33.1 pounds)
SHIPPING DIMENSIONS (LxWxH)	53.0x46.0x23.0 cm (20.9x18.1x9.1 inches)
WARRANTY	One year
CASE FEATURES	Watertight, crushproof and dust proof

Technical specification subject to change

ISO 9001 Registered



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