

EOD019 E3500 ADVANCED PORTABLE EXPLOSIVE DETECTOR

The E3500 is the world's first explosives trace handheld based on Luminol Chemilux® (chemiluminescence). It detects many military, commercial, even homemade explosives, liquid and powdered, including TATP and peroxides, plastics, nitrates, and black powder.

The detector offers portability, quick detection and clear and accurate results with very high selectivity for explosives and immunity to humidity or contamination problems. The **Advanced Portable Explosive Detector** detects traces of particulates and vapors, allowing for noninvasive searches of luggage, mail, vehicles, documents and containers.



Operation:

The **Advanced Portable Explosive Detector** is flexible and easy to operate, offering both vapor and particulate sampling without the use of an external carrier gas or radioactive source. Vapors are sampled directly via the sampling nozzle. Particulates are sampled by swiping a suspected object with a cotton glove or other means and transferring any traces to the unit. This dual capability enables users to select the most suitable method of sampling for the explosives of interest. The **Advanced Portable Explosive Detector** processes samples immediately and gives results in just seconds. All results are indicated on the LCD graphical and numerical display.

The **Advanced Portable Explosive Detector** is ready for operation within thirty seconds from turn on. When necessary, any minimal cleaning takes only a few seconds. The simple push of a button automatically activates the sampling and analysis mode. Results are displayed on an easy-to-read LCD making the system ideal for all non-technical personnel.

Performance:

The **Advanced Portable Explosive Detector** has proven to be capable of detecting plastic and high vapor pressure explosives rapidly—giving clear results you can trust. Luminol Chemiluminescence is an ASTM EPA standard method for atmospheric monitoring of nitrogen dioxide.

The **Advanced Portable Explosive Detector** can detect minute traces (low nanogram level) of C-4, TNT, Dynamite, PETN, Semtex, EGDN, DMNB, RDX, ANFO, Amonium Nitrate, Urea Nitrate, Nitroglycerine and TATP, with low false alarm levels and few interferents.

Portability:

The Advanced Portable Explosive Detector is self contained, and lightweight at less than 3 kg (6.6 lbs), and comes in a fully equipped, rugged carrying case.

Radioactivity: No Radioactive Isotopes or Radioactivity

Specifications:

Detection Principle:	Luminol Chemilux® – Disposable cartridge
Radioactivity:	No radioactive or gas source, no licensing, no isotopes.
Detectable Compounds:	Military (including plastic), commercial and homemade explosives: C4, TNT, Nitroglycerin, Dynamite, PETN, Semtex, RDX, ANFO, ICAO Taggants, (DMNB, EGDN, o-MNT, p-MNT), Urea nitrate, and peroxides.
Sampling Capabilities:	Vapours and particulates - Dual Mode
Typical Sample/Analysis Time:	Sample: 5-30 seconds (user selectable based on application)
Analysis:	Within 16 seconds
Warm-up Time:	None (after daily one minute start)
Carrier Gas:	None required (ambient air)
Controls:	Power switch Keypad Vapour/Particulate selector Volume control (with optional earphone) Sample switch
Operational Status Indicators:	LED indicator lights Large LCD display for status messages Audible alarm (with optional earphone)
Data Storage and Communications:	1000 retrievable data records RS-232 serial output port for remote control and monitoring
Power Supply:	12 volt DC rechargeable battery pack External battery pack, spare battery.