

E3500 PORTABLE EXPLOSIVES DETECTOR

The E3500 is the world's first and most recognized portable explosives trace detector that uses Luminol Chemiluminescence (Chemilumina). The E3500 is the only portable device capable of detecting the presence of all threat explosives, including ICAO taggants, military plastics and TATP. Unlike other detectors, it does not use any external carrier gas or radioactive source.

If portability, quick detection and clear, accurate results are crucial, then this is the explosives detector needed. The E3500 offers extremely fast and stable detection with very high selectivity for explosives and immunity to humidity or contamination problems. The E3500 detects traces of particulates and vapors, allowing for non-invasive searches of luggage, mail, vehicles, documents and containers.



The E3500 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 E3500 is ready for operation within thirty seconds from turn on, and starts processing samples immediately, giving results in just seconds. All results are indicated on the LCD graphical and numerical display.

The E3500 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. It can detect minute traces (low nanogram level) of C-4, TNT, Dynamite, PETN, Semtex, EGDN, DMNB, RDX, ANFO, Amonium, Nitrate, Urea Nitrate, Nitrogly-cerine and TATP, with low false alarm levels and few interferents. It is immune to variations in humidity and environmental conditions.

The E3500 is self-contained, lightweight, less than 3 kg (6.6 lbs), and comes in a fully equipped, rugged carrying case ready to use when and where needed. 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 E3500 ideal for all non-technical personnel. ICAO taggants and tagged plastic explosives.

SPECIFICATIONS:

Detection Principle:	Luminol Chemiluminescence – Disposable cartridge
Radioactivity:	No radioactive source, and no licensing or radioactive calibration applicable.
Detectable Compounds:	Most military (including plastic) and commercially available explosives, C4, TNT, Nitroglycerin Dynamite, PETM, Semtex, RDX, ANFO, ICAO Taggants, (DMNB, EGDN, o-MNT, p-MNT), Urea nitrate, and TATP
Sampling Capabilities:	Vapors and particulates - Dual mode
Typical Sample:	5-30 seconds (user selectable based on application)
Analysis Time Sample:	Within 15 seconds
Initial Warm-Up Time:	30 seconds
Carrier Gas:	None required (ambient air)
Controls:	Power switch, keypad, automatic vapor/particulate selector and volume control (with optional earphone)
Data Storage & 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, 12 volt AC adapter
Operating Temperatures:	0°C to +55°C (+32°F to +131°F)
Storage Temperatures	0°C to +65°C (+32°F to +149°F)
Shipping Weight:	12 kg (26 lbs.) in steel-reinforced, foam-padded, protective carrying case
Shipping Dimensions:	57x26x39 cm / 22x10x14" (LxWxH)

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