

E3500 Chemilux

CBRNe^{er}getics Ltd



Portable Advanced Dual Mode Explosives Detector



The E3500 is the world's first explosives trace handheld based on Luminol Chemilux® (chemiluminescence). It detects military, commercial, even homemade explosives, liquid and powdered, including TATP and peroxides, plastics, nitrates, and black powder.. Portable, quick detection with clear, accurate results, with very high selectivity for explosives and immunity to humidity problems. E3500 detects traces of particulate and vapours of explosives, noninvasively in luggage, mail, cars, trucks, clothing, electronic articles, backpacks, documents and containers.

The unique Chemilux® design and parameters yields high selectivity to explosives, and high immunity to weather and environmental interference. For a Chemilux® vapour model which identifies the explosive, select the E3100. For an affordable, vapour-only model, select the E3200. For non-invasively detecting explosive vapours and particulates in luggage, mail, vehicles, trucks, clothing, electronic articles, backpacks, documents and containers by:

- **Advanced, Flexible, Dual Mode:** the world's most advanced, versatile and specific vapour and particulate handheld. Suspect particulates are easily "swiped" inside and vapours sampled in front.
- **Far more sensitive, selective, proven:** reliably detects plastic, even minute, low nanogram traces such as C-4, black powder, PETN, Semtex, RDX, TNT, Ammonium and Urea Nitrates, Dynamite, NG, ICAO taggants, EGDN & DMNB, TATP, and peroxides, with few interferents, minimizing false alarms and confirming hits.
- **Lightest & most portable, rugged:** self-contained, hardened for extreme conditions, yet lightest (less than 2.7 kg - 5.9 lbs). Greater battery life (6 hours). Fully equipped in field-ready carrying case pictured above.

- **Easy to use: simple one-push operation.** Displays definitive results in seconds on a bright LCD screen, with clear green and red LED's. Automatically adjusts itself to your environment.
- **No radioactivity or isotopes, period.** No isotopes, radiation or calibrations, safety risks, carrier gas, certificates or licenses to deal with. None.
- **Easier upkeep: fewer consumables.** Self calibrating. Sample screens are completely reuseable. Our training and support are worldwide and highly regarded.
- **For hostile environments:** especially resistant to contamination or effects from exhaust, humidity, rain, sand, wind, aerosols or pollutants.
- **Advanced:** increased memory and networking capability with laptops and PDA handhelds.

The E3500 is ideal for:

- Police & Bomb Squads
- Airports
- Customs
- Military Defense
- Seaports and Containerships
- Field or Forensic Use
- Nuclear Facilities
- Embassies or Consulates
- Courts of Law
- Postal Stations
- Corporate or VIP Headquarters
- Commercial
- Correctional
- Federal buildings
- Railway, Bus and Subway Terminals

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SPECIFICATIONS	
Detection Technology	Luminol Chemilux® – Disposable cartridge
No Radioactivity	No radioactive or gas source, no licensing, no isotopes.
Detectable Compounds	Military (including plastic), commercial and homemade explosives: C4, TNT, NG, Dynamite, Black Powder, PETN, Semtex, RDX, ANFO, ICAO Taggants, (DMNB, EGDN, o-MNT, p-MNT), Ammonium and Urea nitrates, TATP and peroxides, others.
Sample Collection	Vapours and particulates - Dual Mode, confirming hits
Typical Analysis Time	Within 14 seconds
Warm-Up Time	None (after daily one minute start)
Carrier Gas	None required (ambient air)
Controls	Power switch Keypad Vapour/Particulate mode switch Volume control (with optional earphone) Sample switch
Options	1. Remote unattended operation 2. Remote control 3. Continuous operation mode 4. WiFi data transfer
Alarm, Audio & Visual	LED indicator lights Large LCD display for status messages Audible alarm (with optional earphone)
Data Storage & Communications	1000 retrievable data records via PC RS-232 serial output port for remote control and monitoring
Power Supply	12 volt DC rechargeable 6-hour battery pack Spare battery pack 12 volt AC adapter 90-264 VAC, 47-63 Hz universal (auto sensing) switching
Operating + Storage Temperatures	Operating: 0°C to +55°C (+32°F to +131°F) Storage: 0°C to +65°C (+32°F to +149°F)
Weight + Dimensions	Unit weight: Less than 2.7 kg (5.9 lbs.) engineered in thermoplastic shielded case Unit dimensions (LxWxH): 51x14x11 cm / 20x5.5x4.3" Shipping weight: 14 kg (31 lbs.) Case shipping dimensions (LxWxH): 52x26x39 cm / 22x10x14"
Warranty	One year; other warranties available
Certificates	ISO, FCC, CE, and other world recognized certificates

