

## E 3500

### Portable Advanced Explosives Detector

**Introducing the Trace E 3500 Handheld Advanced Chemilumina Explosives Detector from Scintrex Trace, manufacturer of some of the most advanced chemical detection systems in the world, including its exclusive GC-IMS, NDS and EVD lines of trace detection.**

The E 3500 is the world's first and most recognized portable explosives trace detector that uses Luminol Chemiluminescence (Chemilumina). The E 3500 is the only portable device capable of detecting the presence of all threat explosives, including ICAO taggants, military plastics and TATP. It also does not use any external carrier gas or radioactive source (unlike others).

If portability, quick detection and clear, accurate results are crucial, then this is the explosives detector needed. The E 3500 offers extremely fast and stable detection with very high selectivity for explosives and immunity to humidity or contamination problems. The E 3500 detects traces of particulates and vapors, allowing for non-invasive searches of luggage, mail, vehicles, documents and containers.

#### **Operating the E 3500**

The E 3500 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 E 3500 starts processing samples immediately and gives results in just seconds. All results are indicated on the LCD graphical and numerical display.

➔ **Fast and Proven:** The E 3500 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.

➔ **Sensitive and Selective:** The E 3500 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 interferences. Immune to variations in humidity and environmental conditions.

➔ **Portable:** The E 3500 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.

➔ **No Radioactive Isotopes or Radioactivity**

➔ **Easy to Use:** The E 3500 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 E 3500 ideal for all non-technical personnel. ICAO taggants and tagged plastic explosives.



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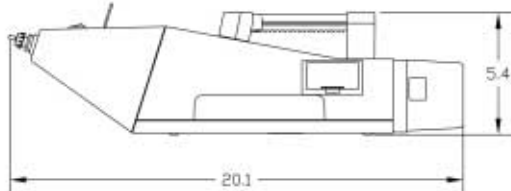
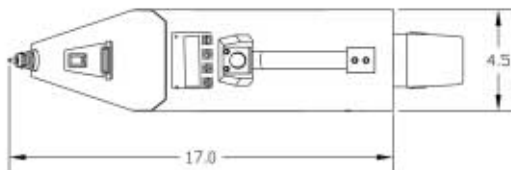
## The E 3500 is ideal for:

- Police & Bomb Squads
- Airports
- Border Crossings
- 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
- Special Events, Leases, Rentals

...Worldwide

## SPECIFICATIONS\*

|                                         |                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DETECTION PRINCIPLE</b>              | Luminol Chemiluminescence – Disposable cartridge                                                                                                                                                                                                                                  |
| <b>NO RADIOACTIVITY</b>                 | No radioactive source, and no licensing or radioactive calibration applicable.                                                                                                                                                                                                    |
| <b>DETECTABLE COMPOUNDS</b>             | 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                                                                             |
| <b>SAMPLING CAPABILITIES</b>            | Vapors and particulates - Dual Mode                                                                                                                                                                                                                                               |
| <b>TYPICAL SAMPLE/ANALYSIS TIME</b>     | Sample: 5-30 seconds (user selectable based on application)<br>Analysis: within 15 seconds                                                                                                                                                                                        |
| <b>INITIAL WARM-UP TIME</b>             | 30 seconds                                                                                                                                                                                                                                                                        |
| <b>CARRIER GAS</b>                      | None required (ambient air)                                                                                                                                                                                                                                                       |
| <b>CONTROLS</b>                         | Power switch<br>Keypad<br>Automatic Vapor/Particulate selector<br>Volume control (with optional earphone)                                                                                                                                                                         |
| <b>OPERATIONAL STATUS INDICATORS</b>    | LED indicator lights<br>4 x 20 Liquid Crystal Display (LCD)                                                                                                                                                                                                                       |
| <b>DATA STORAGE + COMMUNICATIONS</b>    | 1000 retrievable data records<br>RS-232 serial output port for remote control and monitoring                                                                                                                                                                                      |
| <b>POWER SUPPLY</b>                     | 12 volt DC rechargeable battery pack<br>External battery pack<br>12 volt AC adapter                                                                                                                                                                                               |
| <b>OPERATING + STORAGE TEMPERATURES</b> | Operating: 0°C to +55°C (+32°F to +131°F)<br>Storage: 0°C to +65°C (+32°F to +149°F)                                                                                                                                                                                              |
| <b>WEIGHT + DIMENSIONS</b>              | Unit weight: 3 kg (6.6 lbs.) in ABS engineered plastic shielded case<br>Unit dimensions (LxWxH): 51x14x11 cm / 20x5.5x4.3"<br>Shipping weight: 12 kg (26 lbs.) in steel-reinforced, foam-padded, protective carrying case<br>Shipping dimensions (LxWxH): 57x26x39 cm / 22x10x14" |
| <b>WARRANTY</b>                         | One year return to manufacturer                                                                                                                                                                                                                                                   |



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