

Portable Explosives and Drugs Detection (PEDD)



The PEDD is the next generation of long-range detector product offered by the industry. It incorporates the long range electrostatic attraction of highly-charged ions for the effective identification of even the most difficult substances. Unlike other trace detectors that are limited by the need to have actual physical contact with the item sampled; the PEDD is able to detect programmed substances at long distances safely and without the need to have actual physical contact with the substance. As such, the PEDD continues to set standards for ion detection unlike any product on the market today. It is extremely easy to operate and delivers fast detection of the programmed substances in a small lightweight package. Parts of the New features include reduced 'false-positive' readings on contaminated targets. (NOTE: Static-meter shown is a 'cost-optional' extra).

The PEDD is now latest product for Law Enforcement and Government users, world-wide.

Detection Technology:

Using the PEDD application of electrostatic ion attraction, (also referred to as Electrostatic Attraction [ESA]), the PEDD provides detection of programmed substances with unprecedented sensitivity. It can detect substances at long range to levels as low as simple contamination. Targeting the specific fluctuating ions of the programmed substance the PEDD is able to bypass any known attempts to camouflage or hide the target substance(s). It can quickly and effectively scan a large search area targeting a specific group of substances in all types of environments. In dry, humid, cold, and severe weather

Goldman Trades Surveillance and Security Equipments
57 Charing Cross Road
London
WC2H 0NE
United Kingdom

Registration No: 05871589
VAT: 911405858
Tel: +44-2072873621
Fax: +44-2072873621
admin@goldmantrades.com
<http://www.goldmantrades.com>



environments, the PEDD will identify the area(s) of detection and define the search areas for use of close range detection devices such as Trace Detectors and Canines.

Portable and Easy-to-Use:

The PEDD was designed with portability and ease of use in mind. Setup takes less than one minute and can be transported easily in its carrying case. It can be used by multiple operators without the need of recalibration. Results require minimal interpretation and can easily be reconfirmed. The Operator Training Course provides complete training for the operator to be able to identify substance detection and take the proper steps to interpret the level of the identification.

The PEDD identifies the existence of the programmed substance; it does not quantify the amount or level of substance detected. In real-world situations, detection levels are in the pictogram range and below. The trained Operator is able to decipher these levels and take appropriate steps to confirm the existence, type, and location of the target substance to less than a four cubic meter area. It was not designed as a pin point locator, but is designed to define the area to be searched.

Applications:

- Airports/ Customs
- Border Control
- Military Facilities
- Embassies/VIP Guards
- Government buildings
- Nuclear Plants
- Fuel Depots
- Public Utilities
- Police/Prisons
- High-Security events
- Search & Rescue
- Wildlife Reserves



Goldman Trades Surveillance and Security Equipments
57 Charing Cross Road
London
WC2H 0NE
United Kingdom

Registration No: 05871589
VAT: 911405858
Tel: +44-2072873621
Fax: +44-2072873621
admin@goldmantrades.com
<http://www.goldmantrades.com>



Features and Benefits:

Simultaneous Detection of Multiple Types of Explosives or Drugs. The PEDD incorporates electrostatic ion attraction [ESA] technology to target the specific substances. It can accommodate multiple substance detection cards to detect a broad range of explosive or drug [narcotic] substances. It can more specifically identify a substance by removing detection cards from the PEDD after detection is received until the attraction is lost.

Ignores All Known Concealment Methods:

By programming the detection cards to specifically target a particular substance, (through the proprietary process of electro-static matching of the ionic charge and structure of the substance), the PEDD will "by-pass" all known attempts to conceal the target substance. It has been shown to penetrate Lead, other metals, concrete, and other matter (including hiding in the body) used in attempts to block the attraction.

No Consumables nor Maintenance Contracts Required:

Unlike Trace Detectors that require the supply of sample traps, the PEDD does not utilize any consumables (exceptions include: cotton-gloves and cleanser) thereby reducing the operational costs of the equipment. The equipment is Operator maintained and requires no ongoing maintenance service contracts. It comes with a hardware three year warranty. Since the equipment is powered electro statically, there are no batteries or conventional power.



Goldman Trades Surveillance and Security Equipments
57 Charing Cross Road
London
WC2H 0NE
United Kingdom

Registration No: 05871589
VAT: 911405858
Tel: +44-2072873621
Fax: +44-2072873621
admin@goldmantrades.com
<http://www.goldmantrades.com>



Specifications

Detection Method: Electro-Static (ionic) Attraction [ESA]

Sensitivity: Below Trace level. [Fingerprint] (In the Picogram range.)

Selectivity: < 2% typical false positive rate (Mainly due to the inability to visibly see or trace-detector sampling, unable to analyse.)

Detection/Reaction Time: < 5 Seconds

Setup Time: Less than 1 minute

Environmental: Operating temperature -40°C to +60°C (-40°F to +140°F)

Power: Electrostatic (*500 Volts minimum, typically *2500~3000 Volts)

*Readings taken by Static-Electrometer to ensure proper power levels.

Signal Processing: Attraction input to moving directional antenna

Detection at 90° across Operator's body

Calibration: Not required. Operator tests equipment prior to use by detecting a sample substance. Regular normal cleaning recommended.

Detection Modes: Ion-like-charged fluctuation, Passive receiver

Substance Detection:

High Explosives or Detonable Explosives

Trinitrotoluene (TNT), DNT Nitro Esters (PETN, nitro-glycerine, ethylene glycol dinitrate), Ammonium nitrate, Dynamite, RDX/Hexogen/Octogan, Black Powder, Ammunition & Propellants, Tetryl, Narcotics, Cocaine/Heroin/Morphine, THC/Marijuana/Cannabis, LSD/Ketamine/Midazolam, Amphetamine / D-methamphetamine, Ecstasy, Opium/Opiates, Chloro-Methyl & Benzodiazepine drugs, Ivory, Human Recognition (Detection)

Additional substances Available. Contact us for further information.

Sensor Cards: Sensor Cards are of Credit-card size and are fused (non-laminate) so as to warranty against defects for a minimum of 10 years. Multilanguage can be printed to indicate substance type to be detected.

3 year electronic media support

Training Courses Basic operator training course (required) in the use of the equipment and additional course training in Maritime or Aviation use is available. Search and Rescue for Humans course using the PEDD is available. Contact us for further information.

Detection Range (in Tests)

- Above ground Up to 1000*+ meters (*in ideal conditions)
- From Aircraft Up to 5000* meters (3+ miles)

Goldman Trades Surveillance and Security Equipments
57 Charing Cross Road
London
WC2H 0NE
United Kingdom

Registration No: 05871589
VAT: 911405858
Tel: +44-2072873621
Fax: +44-2072873621
admin@goldmantrades.com
http://www.goldmantrades.com



- Under Water Up to 30* meters (100+ feet)
- Underground Up to 10* meters (30+ feet)
- NOTES: *All of the above are indications in ideal conditions. Aspects relating to weather such as, high temperatures, high humidity and extreme cold, will affect results shown above.

Hand Held (Attraction 150mm x 170mm x 25mm
Direction Indicator) (6" x 6 ¾" x 1")

Detection Card Reader 110mm x 125mm x 25mm
(4 ¼" x 5" x 1")

Interconnection: BNC interconnecting cable

Weight (including Soft 900 grams (2 lbs)

Case)

***NOTE: Design changes may vary the spec. shown**

Goldman Trades Surveillance and Security Equipments
57 Charing Cross Road
London
WC2H 0NE
United Kingdom

Registration No: 05871589
VAT: 911405858
Tel: +44-2072873621
Fax: +44-2072873621
admin@goldmantrades.com
<http://www.goldmantrades.com>