

## VTEX - Explosive Detector and vapor tracer



**VTEX** Portable explosive vapor detector has unique specifications and can detect both vapors and trace quantities of explosives indoor and at any means of transport (cars, planes, trains and ships). Explosives vapor detection is ensured by an array collection from the inspected object surface or its inner space and subsequent analysis of these samples for the presence of typical composition. Remote trigger with grid thickener (part of delivery set) allows taking samples in dusty and smoky areas. Moreover, there is a method of taking samples by special sampling swabs, which are later warmed up in a sample heater, which is also included in the delivery set.

**VTEX** allows detection of trace quantities of explosives based upon TNT, NG, PENT (PETN), RDX, HMX, Teteryl, cellulose nitrocompound gunpowders, including ones on their base:

- SEMTEX (plastic and elastic explosives on RDX & PENT base or their medley),
- B-type compositions (a lot of explosives with Russian origin),
- C-type mix (C1, C2, C3, C4, etc),
- H-6,
- HBX,
- Minol-2,
- Amatol,
- Primacord,
- Primasheet,
- Tetritol,
- Tritonal,
- Cordit N,
- A-IX-1, A-IX-2, A-IX-20,
- Explosives of Octols & Octols families and some other substances.

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The device construction and analysis algorithms provide high selectivity and noise immunity.

VTEX in contrast to analogous equipment does not contain radioactive source and is absolutely safe for operator and environment.

Therefore, there are no limitations of purchasing, keeping, transporting, and using of the device.

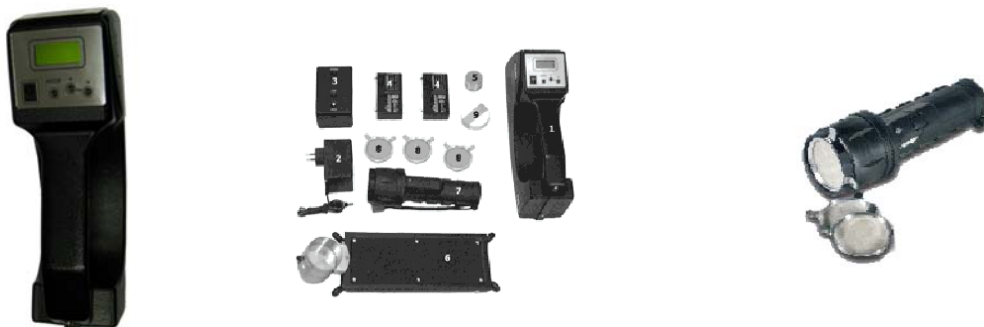
Special software allows comparing registered spectrums to typical spectrums of pure and mixed explosives when sending them to a remote computer.

Distinctive features:

- Combines high sensitivity, selectivity and noise immunity.
- Wide range of detected explosives.
- The operation threshold of the detector is adjustable depending on the surroundings.
- Provides sound and visual (on the display) indication of the presence of explosive vapors.
- Battery discharge indication.
- Does not contain radioactive sources.
- Does not require periodical adjustment and setup procedures.
- Does not require special gas supply.

**Characteristics:**

Detected explosive vapors	TNT, EGDN, PETN, cyclonite, NG and compositions on their base
Threshold sensitivity (TNT sample)	10-13 g/cm <sup>3</sup> response
Time on explosive vapor	1 second
Operation time	10 seconds
Maximum distance between VD nozzle and examined object	30 mm
Dimensions	300x180x90 mm
Weight	1.8 kg (with battery)
Power supply	12 V, rechargeable battery, 220 V/50 Hz
Battery life	4 hours
Operating conditions:	Temperature + 5 ~ + 40 °C, humidity at 25 °C



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