

TR-Trace

Explosive Vapour and Trace Detection



TR-TRACE can detect and identify a wide variety of explosives including pure explosive and composite explosives under different humidity and pressure conditions in vapour or trace (particles) mode.

The list of explosives includes TNT, RDX, C4, Semtex, PETN, ANFO, EGDN, Nitro-glycerine (NG), Dynamite, DNT, Black Powder, Ammonia and Urea nitrates, HMTD, Teteryl, HMX, Picric Acid, and mixtures thereof.



No expensive consumables necessary...

The cost of TR-TRACE's ownership is very low, as special consumables are not required. Regular aluminium foil swabs can be used for surface wiping in particle mode.



No radiation source onboard...

TR-TRACE does not contain any radiation sources. Corona discharge functions as the source of ionization.



Quick & easy to use...

TR-TRACE warm up time is less than 1 minute.

Product Specifications

TR-Trace	Benefit
Threshold sensitivity in vapor mode (for TNT at 20°C and 80% humidity), g/cm ³	Better than 10 ⁻¹⁴ (1ppt)
Threshold sensitivity in particle mode (for TNT)	100pg
Technology	Field Asymmetric Ion Mobility Spectrometry (FAIMS)
Radiation source	NO
Calibration	Not required
Type of ionisation	Corona discharge
Explosives detected	TNT, RDX, PETN, ANFO, EGDN, Nitroglycerine (NG), Black Powder, Ammonia and Urea nitrates, HMTD, Tetry, HMX, Picric Acid
Alarm type	Audio and visual, with substance identification

Product Specification

- Dimensions: (mm)
400 (L) 160 (W) 110 (H)
Weight 2kg
- Warm up time:
20 seconds
- Analysis and results time, seconds: 1 - 6 seconds
- Time of continuous work in standalone mode, hours: not less than 2 hours
- Display: 109 mm (4.3") colour TFT display with touch screen
- Available accessories: Sampling tube, remote preconcentrator, shoulder strap for carrying M-ION
- Operating temperature °C (°F): from 0 °C (32 °F) to +55 °C (131 °F)
- Operation humidity at 25 °C (77 °F): 95% non-condensing
- Operation altitude, m (ft): up to 5000 m (16,404 ft)

TR-TRACE operates on Field Asymmetric Ion Mobility Spectrometry principle.

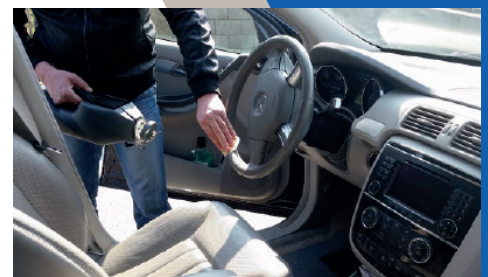
TR-TRACE has function of user authorization with the different access rights; the internal memory allows saving more than 100K results of analysis.

TR-TRACE does not require a special calibration.

TR-TRACE is equipped with a special electrostatic valve which filters the ions by their polarity. This valve significantly reduces false alarm rate from non-explosive materials.

TR-TRACE is easy to use. It doesn't require any special training. Presence of explosive in the sample is visualized on the device's LCD display or on any Wi-Fi device that can work as a remote control.

TR-TRACE is efficient both indoors and outdoors at temperatures above zero.



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Threat from suspect devices is not exclusive to any one sector, consequently over many years Todd Research has built an enviable reputation partnering with organisations as diverse as Government, Embassies, Global Banking, Pharmaceutical, Oil & Gas, Legal, Media, Facilities Management, Retail and many more. Call Todd Research to understand how we can help protect you, your personnel and assets.

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