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## ChemExpert-T

### Expert in the field of detection

Multifunctional analytical device providing identification of about 15,000 different chemicals in liquid, solid or powder state

- ▶ Laser Wavelength — 532 nm (ability to measure solutions with a concentration of detectable hazardous substances from 5%);
- ▶ Laser Power — not more than 30 mW (for safe measurement and identification of explosives and flammable substances);
- ▶ Spectral Range — up to 4000 cm<sup>-1</sup> (ability to identify water and beverages, as well as identify unknown hazardous substances);
- ▶ Assay Cost — \$0.00 (no expendable materials and no sample preparation).

ChemExpert-T is a handheld Raman spectrometer for rapid, accurate identification of unknown substances including chemical and biological threat agents, explosives and drugs.

The spectrometer provides law enforcement, military and security agencies with a powerful, sensitive, low false-positive and low false-negative tool for detecting a wide variety of explosive substances, chemical and biological threat agents.

ChemExpert-T is a cost-effective, lightweight Bottled Liquid Scanner (BLS) that detects hazardous substances in liquids or powder forms contained in glass and transparent or translucent plastics bottles or containers and can also provide emergency response personnel and forensic agencies.

ChemExpert detects and identifies explosives in liquid, solid and powder form, biological threat agents, toxic industrial chemicals (TICs), chemical warfare agents (CWAs), drugs and narcotics, toxic solvents, nitro compounds, plasticizers, precursors, etc.

#### Main characteristics:

- Analysis method : Raman spectroscopy
- Analysis/ response time, min : ≤ 1
- Laser wavelength, nm: 532
- Spectral resolution, cm<sup>-1</sup>: 5 – 8
- Raman spectral range, cm<sup>-1</sup>: 100 – 4000
- Laser power , mW: ≤ 30
- I/O Interfaces : Ethernet, Wi-Fi, USB, Bluetooth
- Operating temperature, °C: 0°C – 45
- Electrical operation , hr: Rechargeable battery ≥ 4.5



- Dimensions (LxWxH), mm : 270x160x130
- Weight, kg : 3

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