



YPH Group

ChemExpert-T

— handheld Raman spectrometer for rapid, accurate identification of unknown substances including chemical and biological threat agents, explosives and drugs

Detects and identifies



Biological threat agents



Chemical threat agents



Explosives



ChemExpert-T is a handheld portable liquid and powder Raman spectrometer providing law enforcement, military and security agencies 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.

ChemExpert-T can also provide emergency response personnel and forensic agencies with powerful, high sensitive detection of drugs and other illegal substances.

Main advantages:

- ✓ **Laser Wavelength — 532 nm**
— the ability to measure solutions with a concentration of detectable hazardous substances from 5%
- ✓ **Laser Power — not more than 30 mW**
— safe measurement and identification of explosives and flammable substances
- ✓ **Spectral Range — up to 4000 cm⁻¹**
— the ability to identify water and beverages, as well as identify *unknown hazardous substances*
- ✓ **Assay Cost — \$0.00**
— no expendable materials and no sample preparation

“Yuzhpoly metal-Holding” Group

✉ 56 b.2, Varshavskoye sh., Moscow 117638 Russia

☎ +7 499 613-11-77, +7 499 317-31-55, +7 499 317-31-66

e-mail: analizator@list.ru

www.analizator.ru



ChemExpert-T Basic Features

Identified Substances	<ul style="list-style-type: none">• 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.
Analysis Method	Raman Spectroscopy
Analysis/ response time	≤ 1min
Laser Wavelength	532 nm
Spectral Resolution	5 – 8 cm ⁻¹
Raman spectral range	100 – 4000 cm ⁻¹
Laser power	≤ 30 mW
I/O Interfaces	Ethernet, Wi-Fi, USB, Bluetooth
Operating Temperature	0°C – 45°C
Electrical Operation	Rechargeable battery ≥ 4.5 hr
Spectral Library	More than 10,000 Raman spectra
Dimensions (L×W×H)	270×160×130 mm
Weight	3 kg

