

APEX R7

Advanced Raman Spectroscopy



*trace
detection*

Advanced Raman Identification for White Powder, Unknowns, Drugs and Narcotics

The APEX R7 from DetectaChem redefines what field ready identification looks like. Developed in collaboration with the U.S. Department of Defense, the APEX R7 expands the capability limits for handheld Raman spectrometers to be the top of its class in accurate, user-friendly explosive, HME, chemical, drug and narcotic identification and mixture analysis. With vast technology advancements over older handheld Raman spectrometer systems, the APEX R7 delivers faster results, more complex mixture analysis, more safety features and more reporting features. The APEX R7 is the go-to modern solution for law enforcement, first responders and hazardous material technicians seeking the latest in threat identification.

APPLICATIONS

White Powder Identification | Liquid Identification
Clan Lab Testing | Spill & Remediation Substance Testing
Field Drug Testing | Interdiction
Border/Entry Point Security | Forensics



FEATURES

- Miniaturized handheld Raman spectrometer.
- Non-contact testing of explosives, chemicals, drugs, narcotics, precursors and mixtures
- Fast results, 20 seconds or less.
- Cross-Peak Correlation algorithm for high accuracy library matching results and mixtures.
- Ultra-simple operation with no downtime or calibration.
- Ruggedized for the most extreme situations.
- Robust and customizable report creation.

APEX R7



Vast Library of Explosives, Chemicals and Drugs -

The APEX R7 contains over 24,000 library items including military explosives, homemade explosive materials, toxic industrial chemicals and materials, drugs, explosives precursors, plastics and common household materials.

Interoperable Display Capabilities – Connect the APEX R7 to Apple or Android smartphones and tablets and use with the MobileDetect App or pair with SEEKER Pro for dual trace detection and identification capabilities.

Add Detection Capability with MopbileDetect- The APEX R7 intuitively prompts use of specific MobileDetect explosive and drug pouches to add critical trace and residue detection to compliment and expand Raman identification results. Tests include trace nitroaromatics, inorganic nitrates, chlorates, fentanyl, heroin, xylazine, THC, CBD, mushrooms and many more.

Specification	APEX R7
Technology	Raman Spectroscopy, 785 nm
Substances Identified	Drugs, Narcotics, Explosives, Toxic Industrial Materials, Toxic Industrial chemicals, Precursors, Plastics and more.
Drugs Detected	Fentanyl, Heroin, Methamphetamine, Cocaine, Synthetics, K2 Spice, K3 Nacas, Xylazine, THC, CBD, DMT, PCP, LSD, Mushrooms, GHB, Suboxone, Ketamine, other opiates, combinations and derivatives
Library Size	More than 24,000 substances
Size (In) WxHxD Size (cm) WxHxD	3.7 x 2.2 x 1.6 in 9.3 x 5.7 x 4 cm
Weight	8.5 Oz (240 g)
Power Supply	Internal 3.7 volt lithium polymer battery pack. DC wall adapter with charge cord
Data Export	PDF, CSV or text. Export via WiFi, cellphone data or SD card
Connectivity	Bluetooth wireless hardwired tether; Apple and Android devices
Languages	English. Other languages optional
Environmental	MIL-STD 810H. Water Resistant: IP67

