# CHEM500

## Contact Raman
for Military and Law Enforcement

# HME's Explosives Precursors & Narcotics

**Analyze more**
**Real World Materials with 1030nm**

HazMasterG3®

with built in
**HazMasterG3** on-board App
No cables, no WiFi or Bluetooth needed!

Large, **vibrant** 5.5" color touch screen display.

Powered by **Surefire 123A or Li-ion batteries**.

WiFi, Bluetooth, GPS on-board (can be hardware disabled)

IR status indicator for night and clandestine operations

Meets **IP67 & Mil Spec 810g** standards

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sales@sciaps.com

Contact us for a demonstration
or for use at training courses

**+1 339.927.9455**

SciAps

# **Meet the New CHEM** 500
# Handheld Raman Analyzer

It's the product requested by military, law enforcement and first responder users of older-generation Raman analyzers. We asked, **"What do you want in your next generation Raman analyzer?"** Then we designed the Chem-500 to our customer's specifications and expectations – Better analytical performance, **on board HazmasterG3** "so what does that mean" decision support software, more flexible accessories and sampling – all at **nearly half the price** of their existing Raman analyzers.

## Better Analysis

The 1030 nm laser analyzes fluorescing materials like explosives and street drugs better. For example consider real-world Semtex that contains pigments and binders. Figure 1a shows the Raman spectrum from a Semtex sample using a 785 nm laser, and Fig. 1b shows the same material analyzed with the 1030 nm laser source. The 1030 nm spectrum is virtually clear of fluorescence. The suppressed fluorescence means minimal pre-processing and superior SNR, thus faster testing times with less laser energy dumped into sample. The result is a statistically better material ID with reduced risk of sample ignition and improved operator safety.

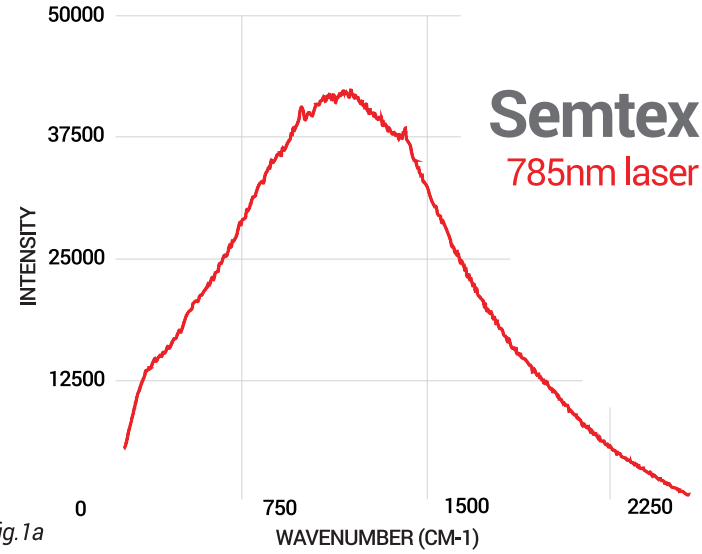



*fig.1a*

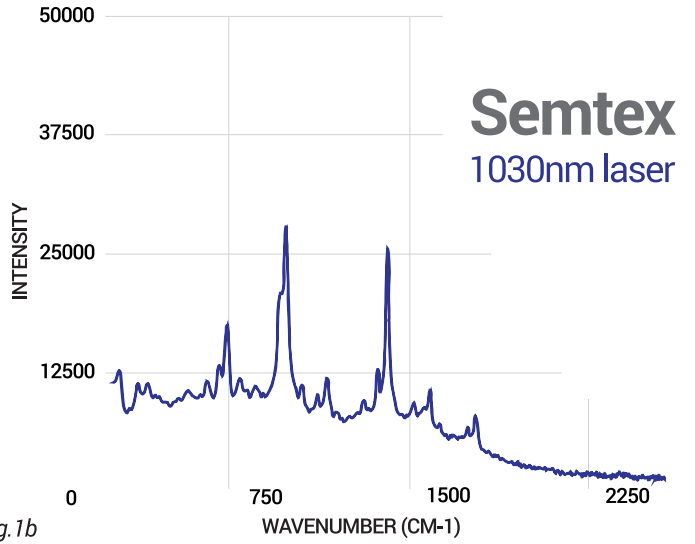


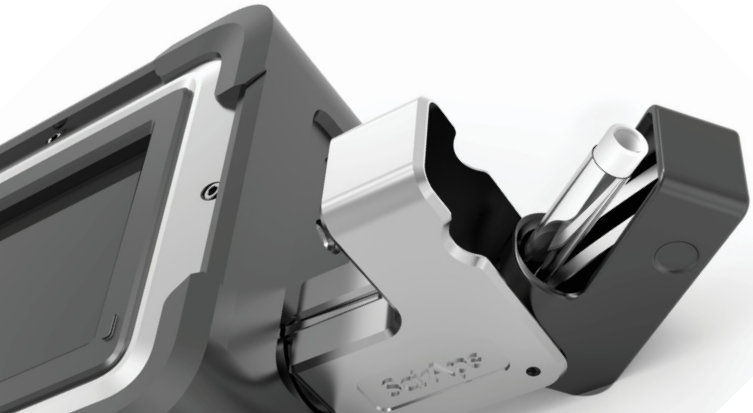

*fig.1b*

## Decision Support Software

The C-500 includes the most widely used decision support software, HazmasterG3. The C-500 operates on the Android platform and therefore runs HazmasterG3 as an on-board App. Data from the chemical detector is transferred seamlessly into HazmasterG3, without need for external tablets, PCs, and no wires, no cables, no WiFi or Bluetooth communications.

## Smarter Testing & Accessories

The Chem-500 features continuous and preset adjustable laser focus. Eliminate the most common error whereby the laser is focused on the sample holder rather than the sample material itself. The Chem-500 offers two vial sizes – the standard 15 ml and smaller 8 ml vials – in one vial holder. The 8 ml vials need less sample, often a benefit when analyzing explosives.



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