

ResQ CQL

Setting the *NEW* standard for handheld 1064nm Raman chemical analysis

The advancement of handheld 1064nm Raman continues with ResQ™ CQL. Based on the combination of an award-winning platform and proven performance, the ResQ CQL offers first responders, border protection, and law enforcement with an advanced method for identifying potential threats – such as explosives, precursors, hazardous chemicals and narcotics. By integrating the 1064nm Raman advantage for the identification of unknown bulk compounds with a technique for detecting trace amounts of a potential deadly hazard, the ResQ CQL is the tool of choice for a safer response. The improved ergonomics provides users with the ability to access difficult sample types in the toughest environments with an easy-to-use analytical device. The unique features and capabilities of ResQ CQL include:

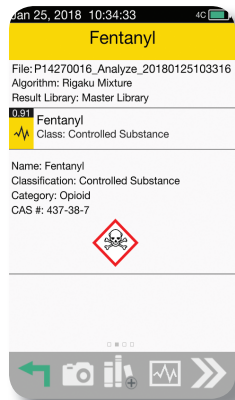
- Perform analysis more conveniently with a small, mobile and handheld device
- Identify bulk and trace levels of substances for both presumptive and confirmatory results
- Add pictorial evidence using on-board camera for traceability
- Create tamper-proof reports for data security



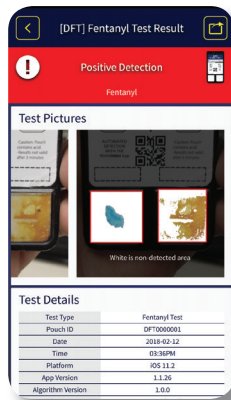
Rigaku
Analytical Devices

ResQ CQL SPECIFICATIONS		
Mode of Operation	Handheld, or hands-free with test stand	<ul style="list-style-type: none"> • Conveniently and safely analyze threats with ease of use in a hotzone • Includes measurement delay timer (up to 10 minutes) for additional safety • Remote operation by PC or tablet using WiFi or USB
Excitation Wavelength	1064nm	<ul style="list-style-type: none"> • Reduces fluorescence interference to measure a broader range of substances – including colored materials or through colored packaging
Output Power	Up to 490mW adjustable laser excitation power	<ul style="list-style-type: none"> • Allows for customization of analysis parameters to obtain most accurate analysis of your specific materials
Graphical User Interface	Touchscreen and softkeys	<ul style="list-style-type: none"> • Smartphone-inspired with bright, touchscreen display or large button navigation for use when wearing protective gloves
On-board Digital Camera	Included with LED	<ul style="list-style-type: none"> • Record sample evidence and store with analysis
On-board Reporting	Included	<ul style="list-style-type: none"> • Immediate PDF generation and transfer of results with camera images
Standard Library	Included	<ul style="list-style-type: none"> • Up to 13,000 compounds including CWA, explosives, precursors TIC/TIM, narcotic
User-Created Library	Included	<ul style="list-style-type: none"> • Easily adaptable for new, emerging threats into a custom library, export to share with other ResQ CQL users worldwide
Threat Recipe alerts with 4C™ Technology	Automatic	<ul style="list-style-type: none"> • Expands incident response by warning users of potential dangerous combinations
Data Transfer	Included	<ul style="list-style-type: none"> • Transfer results via WiFi or USB
QuickDetect™ Automated Colorimetrics	Optional	<ul style="list-style-type: none"> • Add the ability to detect non-visible amounts of narcotics and/or explosives
Operating Temperature	-20 to 50°C intermittent, +40°C continuous (operation above 40°C may affect spectral quality)	
Certification	U.S. MIL-STD 810G, IP-68	
Battery Power	Included: 7.4 Li-Po, 3600 mAh for 5+ hours Compatible: CR123A (six) 3.0V, 1550mAh rechargeable for 4-5 hours	
Size	18.5cm L x 15cm W x 7.9cm H (7.28in L x 5.9in W x 3.11in H)	<ul style="list-style-type: none"> • Allows for single-hand operation
Weight	~1.4kg (3 lbs)	
Warranty	24 months	
Industry Regulation Compliance	<ul style="list-style-type: none"> • SWGDRUG Category A technique for presumptive testing • SWGDRUG Category C technique for confirmatory testing (<i>with addition of QuickDetect</i>) • FDA 21 Part 11 compliance 	

The ResQ CQL is not ITAR-restricted, though a U.S. Department of Commerce export license may be required for some countries.



Example of bulk analysis results



Example of trace analysis results



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