

Product Datasheet

Progency ResQ CQL

Hand-held 1064nm Raman Spectrometer for chemical analysis

The hand-held ResQ® CQL analyser from Rigaku makes it even easier to perform chemical analysis of powders, liquids, gels, and mixtures – even in non-visible amounts.

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.



Features

- Perform analysis more conveniently with a small, mobile and headn-held 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.

Specifications

Technology	
Mode of Operation	Handheld, or hands-free with test stand 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	1064 +/- 1nm (0.3 nm line width, stability < 0.1 cm ⁻¹) Reduces fluorescence interference to measure a broader range of substances – including coloured materials or through coloured packaging.
Graphical User Interface	Touchscreen and softkeys. Smartphone inspired with bright touchscreen display or large button navigation for use when wearing protective gloves.
On-board Digital Camera	Included with LED. Record sample evidence and store with analysis.
On-board Reporting	Included. Immediate PDF generation and transfer of results with camera images.
Standard Library	Included. Up to 13,000 compounds including CWA, explosives, precursors TIC / TIM, narcotic.
User-Created Library	Included. 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. Expands incident response by warning users of potential dangerous combinations.
Data Transfer	Included. Transfer results via WiFi or USB.
QuickDetect™ Automated Colorimetrics	Optional. Add the ability to detect non-visible amounts of narcotics and / or explosives.
Operating Temperature	-20 to 50°C intermittent, +40°C continuous.

Power	
Battery Power	Included: rechargeable 7.4 Li-Po, 3600 mAH Compatible: disposable CR123A (six) 3.0V, 1550mAh
Output Power	Up to 490 mW adjustable laser excitation power. Allows for customisation of analysis parameters to obtain most accurate analysis of your specific materials.
Physical Features	
Dimensions (L x W x H)	18.5 x 15 x 7.9 cm (7.28" x 5.9" x 3.11") Allows for single-hand operation.
Weight	~1.4 kg (3.25 lbs)

Certification and Compliance	
Certification	U.S. MIL-STD 810G, IP-68.
Industry Regulation Compliance	SWGDRUG Category A technique for presumptive testing. SWGDRUG Category C technique for confirmatory testing (with addition of QuickDetect) FDA 21 Part 11 compliance.

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.rigaku.com
The ResQ CQL is not ITAR-restricted, though a U.S. Department of Commerce export licence may be required for some countries.
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Not all products are available in all countries.

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