

CQL Gen-ID

Optimum in-field analysis of general chemical threats.

The Rigaku CQL Gen-ID™ provides advanced analytical chemical identification of more common threats found by first responders or at the border. The advantage of 1064 nm Raman laser excitation means reduced fluorescence interference that often occurs when scanning impure or dirty mixtures. The CQL Gen-ID has the ability to identify unknown solids, liquids, powders, pastes, or gels - through packaging - against a comprehensive library of narcotics, explosives, household chemicals, precursors, and more. The CQL Gen-ID provides a cost-effective solution for departments that are looking for targeted chemical threat analysis, while also taking advantage of the following unique features:

- Automatic mixture analysis of up to 5 components
- Identify bulk and trace levels of substances (with optional QuickDetect™)
- Add pictorial evidence using on-board camera for traceability
- Adjustable nose cone allows for scanning through different thickness and types of packaging
- Compatible with Rigaku's CommandSuite™ Fleet Management software



Rigaku
Analytical Devices

CQL Gen-ID SPECIFICATIONS

Size	18.5 cm x 15 cm x 7.9 cm (7.28 in x 5.9 in x 3.11 in)
Weight	1.7 kg (3.7 lbs)
Laser Wavelength/Max Power	1064 nm/490mW
Spectral Resolution	~6-13 cm ⁻¹
Spectral Range	200-2500 cm ⁻¹
Spectrometer Type	Transmissive Volume Phase Grating
Detector	TE cooled InGaAs - 512 pixel
Operating Temperature	-20 to 50°C Intermittent, +40°C Continuous
Battery Type	Default: 7.2 V Li-ion, 3400mAH, >5 hours / Optional: CR123a (qty: 6)
Adjustable Laser Power (Auto Mode)	5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100%
Auto Collection Mode	●
Adjustable Laser Power (Manual Mode)	5-490 mW in 5 mW increments
Adjustable Exposure Time (Manual Mode)	200 to 7000 ms
Algorithm Type	Identification
Spectral Library Size	4800+ items
Included Libraries	Biomolecule (amino acids), Cutting Agent, Explosive, Explosive Precursor, General Chemical, General Precursor, Household Chemical, Industrial Chemical 1, Narcotic, Narcotic Precursor, Pharmaceutical, Polymer, Solvent, Steroid
Laser Safety Features	Laser Passcode, Scan Delay Timer, and Scan Timeout
Environmental Ruggedness	IP-68 & MIL810G
Connectivity to Desktop or Mobile Device	Waterproof USB-Type C / Wi-Fi / Peer-to-Peer
CommandSuite Fleet Management	Included on units #1 - #2. Available for purchase for higher quantities
QuickDetect™ Trace Colorimetric Detection	Optional (Narcotics & Explosives)
4C™ Precursor Monitoring	●
Touchscreen	●
Adjustable Nose Cone (0mm -5.5mm)	●
User Login Privileges	●
Ability to Add Materials to User Library	●
Create Custom Applications	●
On-board 5MP camera with LED flash	●
Polystyrene Self Test Reference Standard (default)	●
Data Output Formats	.spc, .rrb, .pdf, .txt
Manufacturer Warranty	36 months
24/7/365 Reachback Support	Included under active support
Software & Library Updates	Included under active support

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



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