CQL Max-ID

Offering an enhanced experience for maximum chemical threat analysis - in the palm of your hand.

The Rigaku CQL Max-ID™ provides advanced chemical analysis using the advantage of 1064 nm Raman laser excitation to reduce fluorescence interference in a tactical form factor. Providing a more streamlined workflow and enhanced algorithm, the CQL Max-ID is the tool of choice among safety and security agencies worldwide for identiying narcotics, explosives, chemical warfare agents, household chemicals, and more. With thousands of units in use in high stress environments by first responders, border protection, law enforcement, and the military, the CQL Max-ID provides more convenient and complete on-site chemical analysis, with the following unique benefits provided to the user:
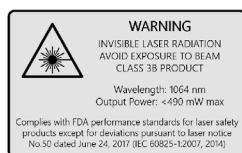
- **Compatible with Rigaku's CommandSuite™ Fleet Management software**
- **Automatic mixture analysis of up to 5 components**
- **Identify bulk and trace levels of substances (with optional QuickDetect™)**
- **Add pictorial evidence using on-board camera for traceability**
- **Adjustable nose cone allows for scanning through different thickness and types of packaging**

CQL Max-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 50ºC Intermittent, +40ºC 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	13000+ items
Included Libraries	Biomolecule, Cutting Agent, CWA, CWA Precursor, Explosive, Explosives Precursor, General Chemical, General Precursor, Household Chemical, Industrial Chemical 1-4 , Narcotic, Narcotic Precursor, Pesticide, Pharmaceutical, Polymer, Solvent, Steroid, TIC/TIM
Configurable Library Categorization (ThreatAlert™)	●
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 - #3. Available for purchase for greater quantities.
QuickDetect Trace Colorimetric Detection	Optional (Narcotics and 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)	● (Optional to scan: Acetaminophen & Cyclohexane)
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 Max-ID is not ITAR-restricted, though a U.S. Department of Commerce export license may be required for some countries.

MADE IN THE U.S.A

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