Product Datasheet

CQL Max-ID

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.

Features and Benefits

- 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.

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Specifications

Size	18.5 cm x 15 cm x 7.9 cm
Weight	1.7 kg
Lase 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	Yes
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 Categorisation (ThreatAlert™)	Yes
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 Colourimetric Detection	Optional (Narcotics and Explosives)

4C™ Precursor Monitoring	Yes
Touchscreen	Yes
Adjustable Nose Cone (0 mm - 5.5 mm)	Yes
User Login Privileges	Yes
Ability to Add Materials to User Library	Yes
Create Custom Applications	Yes
On-board 5MP camera with LED flash	Yes
Polystyrene Self Test Reference Standard (Default)	Yes (Optional to scan: Acetaminophen and Cyclohexane)
Data Output Formats	.spc, .rrb, .pdf, .txt
Manufacturer Warranty	36 months
24/7/365 Reachback Support	Included under active support
Software and Library Updates	Included under active support

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.rigakuanalytical.com

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