

 **QUAKELOGIC**

# QL-RamanGuard

HANDHELD RAMAN SPECTROMETER SYSTEM



# QL-RamanGuard

## HANDHELD RAMAN SPECTROMETER SYSTEM

---

- The QL-RamanGuard Handheld Raman Spectrometer System is a portable, high-precision chemical identification solution designed for rapid and non-destructive analysis in field environments.
- Utilizing advanced 785 nm laser excitation technology, the system enables accurate identification of unknown substances, including narcotics, explosives, and hazardous chemicals, without direct sample contact.
- QL-RamanGuard is capable of analyzing substances through sealed and opaque containers, ensuring safe and efficient screening while minimizing exposure risks for operators.
- Equipped with an integrated spectral library and high-resolution imaging capability, the system supports reliable identification, evidence documentation, and data export for further analysis.
- With its rugged handheld design and extended battery operation, QL-RamanGuard is optimized for law enforcement, border control, hazardous material response, and security applications.

## **KEY FEATURES**

---

- 785 nm laser excitation optimized for Raman spectroscopy
- Spectral range of 200–4000  $\text{cm}^{-1}$  with  $\leq 10 \text{ cm}^{-1}$  resolution
- Non-destructive analysis through sealed and opaque containers
- Detection of narcotics, explosives, and hazardous chemicals
- Integrated spectral library ( $\geq 1,000$  substances, expandable)
- Built-in high-resolution camera with date/time stamping
- Data export support (CSV, SPC, TXT formats)
- Portable handheld design for field operations
- Rechargeable battery for extended usage
- Ruggedized construction for harsh environments
- Includes carrying case and sample interfaces (liquid/solid)
- Onsite operator training (1 day)
- Minimum 1-year comprehensive warranty

## **SYSTEM CONFIGURATION**

---

- System Type → Handheld Raman Spectrometer
- Excitation Source → 785 nm Laser
- Spectral Range → 200–4000  $\text{cm}^{-1}$
- Spectral Resolution →  $\leq 10 \text{ cm}^{-1}$
- Detection Capability → Narcotics / Explosives / Hazardous Chemicals
- Library →  $\geq 1,000$  substances (expandable)
- Imaging → Integrated high-resolution camera
- Data Output → CSV / SPC / TXT
- Power → Rechargeable battery
- Design → Portable handheld rugged unit

## Application Areas



Law enforcement and narcotics detection

Border control and customs inspection

Hazardous material identification

Military and security operations

Emergency response and field analysis

## System Advantages



Rapid and non-destructive substance identification

Safe analysis through sealed containers

High accuracy with advanced Raman technology

Portable and field-ready design

Integrated data capture and reporting capability



# Connect with QuakeLogic – QL-RamanGuard

---

## Corporate Headquarters

QUAKELOGIC INC.  
4010 Foothills Blvd. Suite 103/194  
Roseville, CA 95747, USA

### Factory/Warehouse:

2008 Opportunity Dr. Suite 130,  
Roseville, CA 95678

## Executive Support Line

**+1 (916) 899-0391**

Direct access for executive  
consultations and priority support.

Available Monday - Friday, 9 AM -  
5 PM PST

## Strategic Inquiries

**[sales@quakelogic.net](mailto:sales@quakelogic.net)**

For handheld Raman  
spectrometers, chemical  
identification solutions, field  
analysis applications, and security  
& forensic detection projects.

## Our Unwavering Commitment to Operational Excellence

### Certified Quality Assurance

Compliant with international  
safety and operational standards,  
ensuring reliable performance  
and long-term system stability in  
field environments.

### Advanced Detection Performance

Delivering rapid and non-  
destructive chemical  
identification using advanced  
Raman spectroscopy, enabling  
accurate detection of unknown  
substances with high precision.

### Dedicated Client Success

Providing installation, system  
integration, operator training, and  
post-installation technical support  
to ensure reliable operation and  
long-term system performance.

## Explore Our Complete Product Portfolio



### Scan to Access Advanced Security Solutions

Discover how the QL-RamanGuard Handheld Raman Spectrometer System enables rapid, non-destructive identification of unknown substances in field environments.

Designed for safe analysis through sealed containers, the system detects narcotics, explosives, and hazardous chemicals with high accuracy.

Learn more about system capabilities and analytical solutions.

**[www.quakelogic.net](http://www.quakelogic.net)**