

 **QUAKELOGIC**

# QL-GammaGuard

PORTABLE GAMMA SPECTROMETER SYSTEM



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## PORTABLE GAMMA SPECTROMETER SYSTEM

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- The QL-GammaGuard Portable Gamma Spectrometer System is a rugged, field-deployable handheld gamma spectroscopy solution designed for radionuclide identification, environmental radiation monitoring, geological exploration, NORM assessment, and emergency radiological response operations.
- The system integrates a high-sensitivity 3" × 3" NaI(Tl) detector, advanced 2048-channel multi-channel analyzer technology, real-time spectrum analysis, automatic spectrum stabilization, and built-in GPS positioning into a compact portable platform optimized for demanding outdoor and desert operating environments.
- Designed for high reliability and ease of operation, the QL-GammaGuard provides rapid isotope identification, dose rate assessment, geo-referenced data collection, and wireless data transfer capability for field survey and radiation safety applications.

## ✓ Technical Specifications:

- Fully portable handheld gamma spectrometer for field operation
- Elemental analysis range:
  - High-sensitivity 3" × 3" NaI(Tl) scintillation detector
- Energy Range:
  - 30 keV – 3 MeV
- Multi-Channel Analyzer:
  - 2048 channels
- Energy Resolution:
  - ≤7.5% FWHM at 662 keV (Cs-137)
- Dose Rate Measurement Range:
  - 1 nGy/h – 0.1 mGy/h
- Internal Storage Capacity:
  - ≥8 GB
- Operating Temperature Range:
  - -20°C to +50°C
- Operating Humidity:
  - <90% non-condensing
- Instrument Weight:
  - ≤4 kg including battery
- Automatic spectrum stabilization using natural nuclide reference and temperature compensation
- Real-time radionuclide identification with internal isotope library
- Identifies Cs-137, K, U, Th, and over 100 radionuclides
- Industrial, medical, natural, and customizable nuclide libraries



## **Technical Specifications:**

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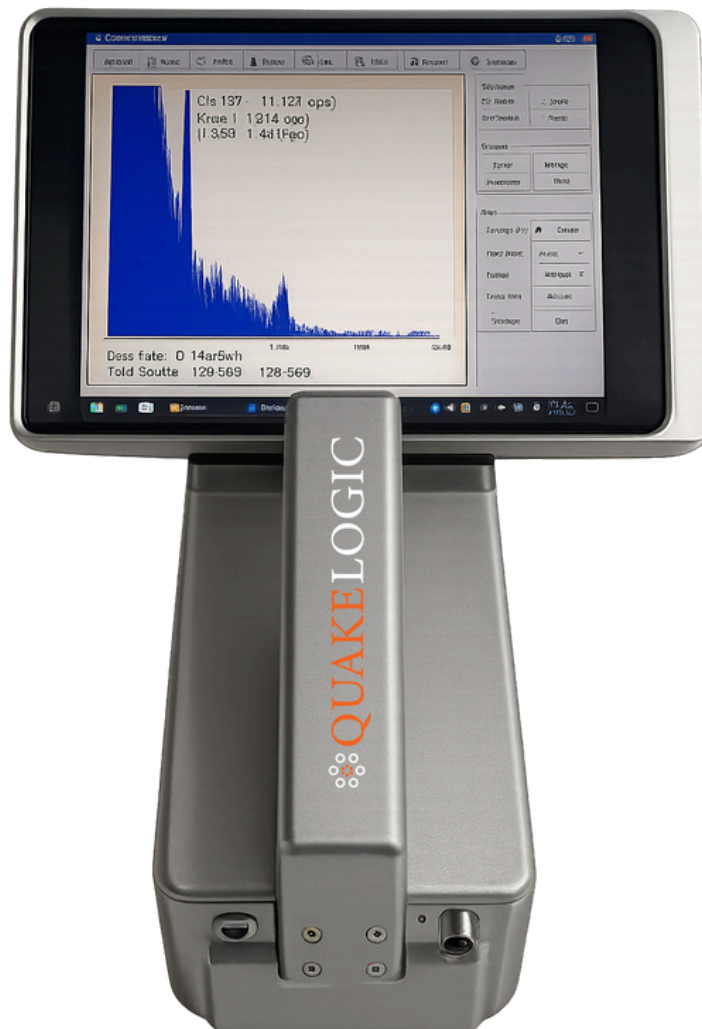
- Real-time gamma spectrum display with automatic peak detection
- Adjustable audible, visual, and on-screen alarm thresholds
- \* Built-in GPS for geo-referenced radiation survey data collection
- Data storage for measurement spectra and dose rate records
- \* USB and wireless (Wi-Fi) data transfer capability
- Spectrum analysis software compatible with Windows operating systems
- Large sunlight-readable color LCD display for outdoor operation
- Rugged IP54-rated enclosure for dusty and harsh environments
- Rechargeable Li-ion battery system with minimum 8-hour continuous operation
- Charger compatible with 220–240 V, 60 Hz power supply
- Carrying case suitable for air transport included
- Calibration certificate traceable to internationally recognized standards included
- English-language user manuals included
- Necessary cables, software, charger, and accessories included
- Spare rechargeable battery included



## ✓ Technical Specifications:



- Spare protective caps included
- Designed for environmental radiation monitoring, geological survey, NORM assessment, regulatory inspection, and radiological emergency response applications
- One-year comprehensive warranty included
- Remote technical support and after-sales service included



# Advanced Gamma Spectroscopy & Radiation Monitoring Solutions

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## Corporate Headquarters

QUAKELOGIC INC.  
2008 Opportunity Dr. Suite 130  
Roseville, CA 95678, USA

## Executive Support Line

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

Direct support for gamma spectroscopy systems, radiation monitoring solutions, and radionuclide identification applications.

Available Monday - Friday, 9 AM - 5 PM PST

## Strategic Inquiries

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

For gamma spectroscopy systems, radiation monitoring solutions, radionuclide identification, and field survey applications.

## Our Commitment to Advanced Gamma Spectroscopy Solutions

### High-Sensitivity Radiation Detection

Delivering accurate and reliable gamma radiation measurement performance for environmental monitoring, geological survey, NORM assessment, and emergency response applications.

### Advanced Gamma Spectroscopy Performance

Providing real-time radionuclide identification, automatic spectrum stabilization, intelligent isotope analysis, and geo-referenced radiation survey capability.

### Dedicated Technical Support

Ensuring reliable operational and technical support, application guidance, field deployment assistance, and after-sales service for radiation monitoring operations.

## Scan to Explore Gamma Spectroscopy & Radiation Monitoring Solutions



### Explore Portable Gamma Spectroscopy Capabilities and Radiation Monitoring Applications

Discover how QL-GammaGuard enhances field radiation monitoring, radionuclide identification, and geo-referenced survey operations for demanding environments.

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