Progeny™ ResQ™

The new generation in handheld chemical detection.

Respond with confidence.

For first responders and law enforcement agencies who are facing an increase in sophisticated threats and drug trafficking, Progeny ResQ provides the industry's most comprehensive chemical detection range in a handheld form. Progeny ResQ provides emergency responders with the means to proactively respond to incidents at the point of action for faster detection, helping to ensure the safety and protection of both the public and response teams.

By integrating Progeny ResQ into routine response tactics, users can expect the ability to:

- **Collect analysis in any environment with a rugged, MIL-STD-810G tested tool**
- **Easily navigate using large buttons and a bright screen display for use in the field**
- **Increase confidence in identification with largest standard library or easily adapt for emerging threats**
- **Measure more substances, including colored materials or through containers**

Rigaku
Rigaku Raman Technologies

www.rigakuraman.com

Progeny ResQ provides the power of Raman spectroscopy in a handheld form with no compromises. Users are empowered to choose the complexity of the task at hand. Progeny ResQ's unique software design provides articulate communication of simple threat identification for actionable decisions — for a variety of applications in the field or wherever data is needed.

ERGONOMICS		
Mode of Operation	Handheld, with optional docking station	Efficiently identify threats at the point of need
Size Weight	29.9cm x 8.1cm x 7.4cm (11.8in x 3.2in x 2.9in) ~1.6kg (3.5lbs)	Allows for single-hand operation
Graphical User Interface	Touchscreen and softkeys	Smartphone-inspired with bright, touchscreen display or large button navigation for protective glove use
Protection Rating	IP-68	Minimizes cross-contamination risk and allows outdoor operation
Battery	>5hrs	Long-lasting charge with options for a recharger or docking station for 24/7 operation
Measurement Accessories	Adjustable focus nose cone, multiple size vials adaptor	Measure a variety of sample shapes through glass/plastic containers
OPTICS AND LOCAL CONTROL		
Excitation Wavelength	1064nm	Measure a broader range of substances
Output Power and Exposure Time	30-490 mW adjustable laser excitation power, 5ms to 30s adjustable exposure time	Allows for customization of analysis parameters to obtain most accurate analysis of your specific materials
Spectral Range	200-2500cm^{-1}	Covers the most relevant molecular information spectral features for material ID
Spectral Resolution (FWHM)	8-11 cm^{-1}	High resolution reveals minor differences in similar materials
Grating Technology	Transmissive volume phase grating	Robust design for years of alignment-free operation
Spectral Efficiency	>90%	High sensitivity, fast analysis
Detector	512 pixels, TE cooled InGaAs	Better signal-to-noise ratio
Local Control	Ultrafast quad-core processor High contrast, high resolution touchscreen	Flexible operation: manual use by touch screen and large buttons or remote operation by PC or tablet using Bluetooth® or wireless
MATERIAL ANALYSIS SOFTWARE		
Material ID Algorithm	Wavelets-based, patent pending, for chemical ID	Increases confidence in chemical ID with unparalleled sensitivity and accuracy
Included Standard Library	Yes	CWA, explosives, TIC/TIM, narcotics
User-Created Library	Yes	Easily adaptable for new, emerging threats into custom library
User Created Workflows and Reports	Yes	Fully customizable to fit your needs
WORKFLOW		
Built-in digital camera	Yes, 2D	Record sample information entry
OTHER SPECIFICATIONS		
Certification	MIL-810-G	
External Battery Supply	100~240VAC/+24VDC	
Operating Temperature	-20 to 50°C	
Warranty	24 months	

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