

# Progeny

## THE NEW GENERATION Handheld Raman Technology



From the evolution of handheld spectroscopy comes Progeny — the first handheld Raman analyzer designed to be customizable and flexible for seamless integration into any work environment. Now you can perform lab-quality analysis of the widest range of solids, powders, liquids, and other substances to ensure the safety of our patients, consumers and communities around the globe.

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**SLEEK, ERGONOMIC DESIGN**

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**POINT-AND-SHOOT FUNCTIONALITY**

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**FLEXIBLE OPERATOR INTERFACE**

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**PATENT PENDING WAVELETS BASED  
SPECTRAL MATCH ALGORITHM**

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**1064NM LASER: UPTO 490MW POWER**

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**DETECTOR: 2X IMPROVED RESOLUTION**

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**FULLY SEALED AND IMPERMEABLE;  
EASY TO CLEAN AND DECONTAMINATE**

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[www.RigakuRaman.com](http://www.RigakuRaman.com)

**Progeny** 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's unique software design provides articulate communication of simple PASS/FAIL decision or more detailed analysis results — for a variety of applications in the lab, in the field or wherever data is needed.

## PROGENY SPECIFICATIONS

Mode of Operation	Handheld, or Benchtop using Optional Docking Station
Excitation Wavelength (nm)	1064nm
Output Power	450mW
Output Power Adjustability	Adjustable
Control	Manual and Remote
Spectral Range, $\text{cm}^{-1}$	200-2500 $\text{cm}^{-1}$
Spectral Resolution FWHM, $\text{cm}^{-1}$	~8-10 $\text{cm}^{-1}$
Grating Technology	VPG
Spectral Efficiency	95%
Detector	TE Cooled InGaAs
Collection Optics	Vial Accessory and Dock
Exposure	Adjustable 5ms-30s
Scan Delay	Yes, User Defined
Measurement Accessories	Point and Shoot Docking Station Dust Proof
Security	Strong Password
Chemometrics	Yes
Electronic Records and Signature	Yes
Battery	>6 hrs
External Power Supply	100~240VAC/+24VDC
Weight	~3lbs (1.4kg)
Size	TBD
Operating Temperature	-20 to 50C
Operating Humidity	IP-68
Barcode Supported Symbolologies	Yes, Linear and 2D with Camera
Certification	FDA 1040, 21CFR, CE, Milspec 810G, IP68
Included Factory Library	Yes, TBD
User Created Library	Yes
Database	Pharma, Military, Chemical
On Board Guides	Yes
Others	Wireless and Bluetooth
GUI	Touchscreen and Softkeys
Support	Web Portal and Phone Support

## THE ALLURE

- Sleek, ergonomic design
- Point-and-shoot functionality
- Flexible operator interface; large buttons and touch screen

## THE CHARISMA

- Modern, smart-phone inspired user interface
- 21CFR Part11 compliant SW w/multi-level user security architecture
- Customizable workflow; customers can see as much or as little data as they want

## THE BRAINS

- Patent pending wavelets based spectral match algorithm; industry exclusive algorithm ensures maximum confidence in sample identification

## THE BRAWN

- Raman spectroscopy
- 1064nm Laser: up to 490mW power
- Detector: 2x improved resolution
- Vigorous design; rugged and manufactured with assembly and ease of service-ability in mind

### Corporate Headquarters

Boston, MA USA  
Tokyo, Japan

### Manufacturing

Tucson, AZ USA

### Corporate Sales Offices

Baltimore, MD USA  
Hong Kong, China  
Kauniainen, Finland  
Munich, Germany  
Local distributors worldwide

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