

Discover the 1064nm Advantage

Progeny

for Complete Material Identification

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 consumer safety.

With its use of 1064nm laser excitation, Progeny represents the latest in handheld Raman spectroscopy by eliminating fluorescence interference. This provides the ability to identify more materials at a fraction of the time.



By integrating Progeny into the development of new applications or adaptation to current workflows, you can expect the ability to:

- Accurately analyze through most common polymer and glass materials
- Minimize the learning curve with a smartphone-inspired interface
- Increase confidence in your material ID with unparalleled sensitivity
- Measure a wide range of materials with interference-free data
- Expand your data transfer flexibility (LIMS, wireless, and docking station)

Progeny delivers the greatest benefits to help streamline your workflow procedures, decrease costs, increase product quality, and bring products to market faster. This ultimately accelerates your return on investment, while meeting regulatory compliance.

Progeny Provides:	
Advanced Performance	<ul style="list-style-type: none"> • 1064 +/- 1 nm (0.3 nm line width, stability < 0.1 cm⁻¹) laser excitation to minimize fluorescence interference • Spectral resolution 8-11cm⁻¹ reveals minor differences in similar material • Spectral range 200-2500cm⁻¹ covers the most relevant molecular spectral features • Transmissive volume phase grating design for years of alignment-free operation • TE cooled InGaAS 512 pixel detector for high resolution results
User Control	<ul style="list-style-type: none"> • 30-490 mW adjustable laser power in 5 mW increments to optimize analysis • 5ms to 30s adjustable exposure time in 5ms increments for more accurate results • Adjustable focus nose cone to ensure analysis of materials through packaging
Intuitive Software	<ul style="list-style-type: none"> • Administrator created workflow methods specific to material ensures accurate analysis • Rapid addition of new materials to your custom on-board library • Truly 21 CFR Part 11 compliant digital signatures • On-board barcode scanner for error-free sample information entry • RigakuSync 3 PC-based software provides an automated, secure data transfer method that can be used to back up data to a secure server location
Optimal Ergonomics	<ul style="list-style-type: none"> • Optimal for one-handed operation: 29.9cm x 8.1cm x 7.4cm (11.8in x 3.2in x 2.9in) and weighing ~1.5kg (3.5lbs) • IP-68 rated ruggedized aluminum housing for maximum durability and minimization of cross-contamination • Large high resolution screen allows for high visibility in confined spaces and outdoors • Choice of user interface: <ul style="list-style-type: none"> • Smartphone-inspired touchscreen provides fast learning-curve • Softkey buttons for one-handed operation while wearing protective gloves
Unique Accessories	<ul style="list-style-type: none"> • Docking station for easy data transfer to LIMS or Server • Adjustable focus vial adapter to accommodate your different vial sizes • Tablet adapter to accommodate different sized tablets and other sample types for increased flexibility
Additional Services	<ul style="list-style-type: none"> • IQOQPQ document and on-site validation services • Performance qualification and recertification services • Raw Material Identification Standard Operating Procedures documentation
Other Specifications	<ul style="list-style-type: none"> • Certifications: FDA 1040, 21 CFR, CE, ISO 9001:2008 Certified Manufacturing facility • Battery: 14.4V Li-ion, 3100mAh, > 5hrs • External battery charger: 100~240VAC, 50-60Hz, +18V DC, 2.5A • Operating temperature of -20 to +50°C intermittent, +40°C continuous • Warranty of 24 months

Progeny is not ITAR-restricted, though a U.S. Department of Commerce export license may be required for some countries.



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