

# RIGAKU XANTUS-2™ 785/1064 DUAL WAVELENGTH PORTABLE RAMAN ANALYZER

## The World's First Dual Wavelength Portable Raman Analyzer. Fast and Accurate Identification of Unknown Substances.

This analyzer is designed specifically to overcome the intrinsic fluorescence issues found in many materials. Its two wave lengths offer the largest array of materials analysis on the market today.

Rigaku's new handheld Raman instruments combine patented optics and proven spectral analysis techniques with state-of-the-art, low-cost telecom-developed optical components, providing our customers with fast, economical, easy to use, handheld chemical identification and composition analyzers.

### Key Features/Benefits:

- **TWO analyzers in one.** Comes with unique combination of high sensitivity and minimized fluorescence.
- **No sample prep.** Can penetrate plastic bags or clear/amber-colored glass bottles while not altering or destroying the sample, thus maintaining its integrity.
- **Ruggedized and ergonomic design.** Is designed for field or laboratory use.
- **Fast and accurate chemical identification.** Point-and shoot operation delivers accurate and fast identification in a matter of seconds.
- **Open spectral library.** Users can either build their own library using a collection of samples or import from third-party specialty Raman databases (such as forensics, toxic chemicals, or high volume-production solvents).
- **Accessories for liquids or solids.** Comes with vial holder and nose cone for liquid, solid, or powder sample types. Provides computer stylus for touch screen data entry and universal power supply.
- **Affordable and portable.** Is half the cost of a typical benchtop Raman analyzer with no loss of sensitivity.

### Ideal for identification and use with:

- In-line pharmaceutical processing
- Narcotics & illicit street drugs
- Explosives & chemical warfare agents
- Hazardous materials & chemical spills
- Incoming raw material ID
- Authentication and anti-counterfeiting



# RIGAKU XANTUS-2™ 785/1064 DUAL WAVELENGTH PORTABLE RAMAN ANALYZER

Specifications	
<b>Excitation Laser</b>	1064 nm +/- 0.5 nm, <2 cm <sup>-1</sup> linewidth, 30-490 mW (user adjustable) 785 nm +/- 0.5 nm, <2 cm <sup>-1</sup> linewidth, 30-490 mW (user adjustable)
<b>Spectral Range</b>	200 to 2000 cm <sup>-1</sup>
<b>Spectral Resolution</b>	1064 nm 15 to 18 cm <sup>-1</sup> (FWHM) 785 nm 7 to 10 cm <sup>-1</sup> (FWHM)
<b>Exposure</b>	Automatic or user adjustable 1064 nm (5 ms - 10 s) 785 nm (5 ms - 30 s)
<b>Collection Optics</b>	F/2, 12 mm working distance
<b>Detector</b>	Thermoelectrically cooled InGaAs & CCD arrays
<b>External Connections</b>	USB 2.0 port for external computer control & WiFi enabled
<b>Power</b>	Power supply: 100 – 240VAC/+24VDC Rechargeable Li ion battery, >1 working hours per charge* *Max battery life dependent upon environmental conditions and usage
<b>Physical Dimensions</b>	138mm X 274mm X 98mm (WxDxH) (3.7 kg/8.1 lbs.)
<b>Operating Environment</b>	-10 to 30 °C, 8 – 90% humidity non-condensing Altitude 0-6,000 ft.
<b>Software</b>	Micro 2020 for Windows XP/Vista/Win7
<b>Spectral Library</b>	Standard (266), User Library, and 3rd Party Library (optional)

\*Specifications subject to change without notice

## In action



*The affordable and portable Xantus-2™ shown with optional stand for precise sample positioning.*

### Rigaku Raman Technologies, Inc.

1101 McKay Drive, Suite B  
San Jose, California 95131 USA

Tel: (+1) 408-705-6560  
Fax: (+1) 408-579-1095  
Email: [info@rigakuraman.com](mailto:info@rigakuraman.com)  
[www.rigakuraman.com](http://www.rigakuraman.com)

