

i-Raman Series Laboratory Raman Spectrometers

Make Raman spectroscopy work for your QC laboratory

PEOPLE YOU CAN TRUST



Feel like your quality control is... out of control?

i-Raman laboratory Raman spectrometers help you become more efficient and productive

In order to improve productivity and efficiency QC labs are adding Raman spectroscopy to their labs to supplement wet chemistry techniques like HPLC and titration that require more time, money, and lab space.

ENTEK

UNLOCK THE EXTRAORDINARY IN YOUR ROUTINE **MEASUREMENTS WITH RAMAN SPECTROSCOPY**

i-Raman systems revolutionize the way industrial users perform measurements. Add Raman as a complement to your wet chemical techniques and prepare to shorten your QC to-do list with a faster, greener, and more versatile solution.

YOUR QC TO-DO LIST ...

PREPARE SAMPLES

Lengthy preparation steps like homogenization and extraction increase the chances of sampling errors and cross-contamination.

ATTEND TRAINING COURSE

for new lab staff to learn and create methods for new products.

SCHEDULE WASTE PICKUP

of thousands of dollars per year!

SCHEDULE SERVICE VISIT

Large chromatography systems require long on-site service maintenance, leading to instrument downtime and manufacturing delays.

MADE EASY WITH RAMAN!

FAST AND EASY MEASUREMENTS Raman measurements require no sample preparation steps, are nondestructive, and typically take less than 1 minute.

INTUITIVE OPERATOR INTERFACES FOR THE ANSWERS YOU NEED Spend less time training and more time ensuring your lab is meeting its quality

LESS WASTE FOR A CLEANER LAB

Raman spectroscopy generates no waste, which saves costs on regular chemical disposal and creates an eco-friendly lab.

MINIMAL MAINTENANCE IN A COMPACT FOOTPRINT i-Raman systems are robust for your QC

environment and require minimal day-to-day maintenance.

Built for your applications

Raman spectroscopy exhibits exceptional selectivity and specificity in analytical applications, enabling quantification and identification of chemical compounds even in complex mixtures. Our team has decades of experience in implementing Raman applications in a broad range of industries.

We have accessories for optimized measurements of nearly every type of sample!



FOOD AND BEVERAGE INDUSTRY

- Quantitative quality measurements for key ingredients
- Contamination analysis
- Food fraud investigation

POLYMER INDUSTRY

- Raw material identification
- Quantitative analysis of polymer blends
- Degradation mechanisms
- Plastics sorting

MATERIALS INDUSTRY

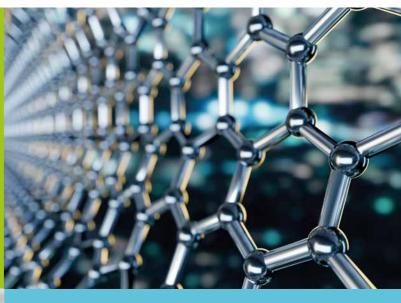
- Carbon D/G band characterization
- Graphene layer analysis
- Nanotube diameter determir
- Foreign body analysis
- Silicon crystallinity determination





CHEMICAL INDUSTRY

- Raw material identification
- Measurements of aqueous solutions
- Monitor reactions and intermediates
- Measure impurities and contaminants



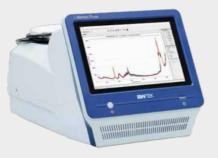
PHARMACEUTICAL INDUSTRY

- Raw material verification
- Blend uniformity and content uniformity testing
- Polymorph analysis
- Anti-counterfeit analysis
- Finished product confirmation



i-Raman[®] Family

i-Raman[®] Prime



THE CLEAR CHOICE FOR QUALITY CONTROL

The i-Raman[®] Prime is optimized for QC and routine analysis environments. The **high signal throughput** spectrometer means **faster measurements**, getting you the answers you need in no time at all.

i-Raman[®] EX



YOUR CHAMPION FOR CHALLENGING SAMPLES

When no other Raman system can meet the **challenges** of your samples, the i-Raman® EX is your best last resort. The 1064 nm laser means **fluorescence-free Raman** measurements are at your fingertips.

i-Raman[®] Plus



JUST RIGHT FOR RESEARCH

The i-Raman[®] Plus has been a staple in research laboratories for over a decade. This **compact**, **high-resolution** model makes **research-grade Raman accessible** to everyone, regardless of experience.

Laser configurations available	532 or 785 nm
Models Range and Resolution	
i-Raman Prime 532 150-3400 cm- ¹ , <8 cm- ¹ @	614 nm
i-Raman Prime 785H 150-2800 cm-1, <6 cm-1 @ 912 nm	
i-Raman Prime 785S 150-3350 cm-1, <8 cm-1 (@ 912 nm

Laser configurations available	1064 nm
Models Range and Resolution	
i-Raman EX 100-2500 cm ⁻¹ <10 cm ⁻¹ @ 1096 nm	

Laser configurations available	532 and 785 nm
Models Range and Resolution	
i-Raman Plus 532 65 – 3400 cm ⁻¹ <3.5 cm ⁻¹ @ 61	
i-Raman Plus 785H 65 – 2800 cm ⁻¹ < 3.5 cm ⁻¹ @	912 nm
i-Raman Plus 785S 65 – 3350 cm ⁻¹ < 4.5 cm ⁻¹ @ 9)12 nm

ORDERING INFORMATION

i-Raman Prime	
840000673	i-Raman Prime 532
840000674	i-Raman Prime 785H
840000675	i-Raman Prime 785S
i-Raman EX	
840001234	i-Raman EX
i-Raman Plus	
840000360	i-Raman Plus 532
840000358	i-Raman Plus 785H
840000340	i-Raman Plus 785S

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