

# PeakSeeker™

## Raman Systems Most Practical System



The **PeakSeeker** by Raman Systems is our most practical and easy-to-use Raman spectrometer. It is an excellent choice for users who want a full featured Raman spectrometer but have a limited budget. The **PeakSeeker** is ideal for Raman feasibility studies, teaching labs, or fundamental research.

The **PeakSeeker** is extremely versatile for measuring multiple sample types. Sampling accessories include a vial holder for liquids and powders. A fiberoptic probe supports remote sample access. User friendly software and USB connectivity enables truly plug and play Raman spectroscopy.

## Specifications

Model Number	PEK-785
Excitation Wavelength (nm)	785
Laser Power (mW)	5 to 300
Spectral Range, Raman Shift (cm <sup>-1</sup> )	200 to 3000
Spectral Resolution (cm <sup>-1</sup> )	~ 9
Signal-to-Noise Ratio	250:1 (at full signal)
Optics	NA = 0.22, Laser spot size = 0.1 to 0.3 mm
Power	12VDC from power adapter input = 100/240 VAC @ 50/60 Hz
Size	(W) 14.2 in, (D) 7.5 in, (H) 4.3 in (36 X 29 X 11 cm)
Weight	< 8 lb ( 3.6 Kg)
Operating Temperature (°C)	-25 to 45

## Benefits

**Versatility:** The user can sample solids, liquids, and powders even when inside transparent packaging and containers such as bags, bottles and vials.

**Sensitivity:** The highly sensitive CCD detector features a wide spectral range and uses frames based integration to minimize the need for sensor cooling. Deep blocking laser rejection filters obstruct Rayleigh scatter and isolate Raman scatter for valuable molecular analysis.

**Portability:** The spectrometer is small and lightweight. Rugged construction and ergonomic design allow it to be carried just about anywhere and set up for immediate use.

**Simplicity:** Each **PeakSeeker** system includes a notebook PC pre-loaded with **RSIQ™** software for true point-and-click operation. Sample spectra are acquired within seconds.

**Adaptability:** Optional software add-ons:

**RSIQ-QUAL** enables substance ID by a database search of thousands of reference spectra using commercially available spectral libraries. Users can also create unique libraries.

**RSIQ-QUANT** is a multivariate analysis tool and

**RSIQ-CFR** supports 21 CFR Part 11 compliance for cGMP electronic records and signatures.

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## Measurement Versatility

The **PeakSeeker** includes an external fiber optic probe for sampling versatility and the ability to interface to the RSM Raman Video Microscope or the MSK Microscope Kit.

Order code: PEK-785



**RSIQ™** (included)

### Raman Spectroscopy Software Spectral Acquisition and Display

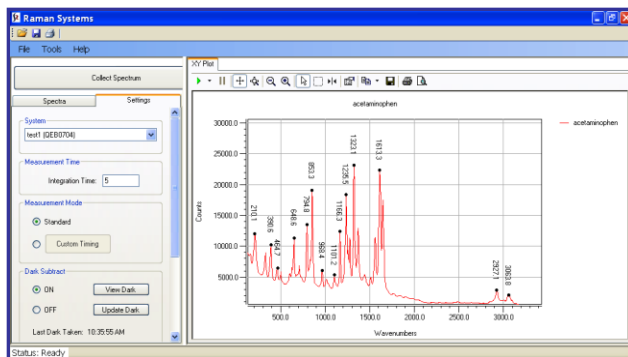
- ❖ User-friendly interface, routine analysis
- ❖ One-touch data acquisition
- ❖ Two data formats: SPC and ASCII
- ❖ Easy instrument verification
- ❖ Spectral smoothing & peak labeling

**RSIQ-QUAL** (sold separately)

### Simplified User Interface for Routine Material-ID

- ❖ Database matching and reporting
- ❖ Build unique spectral database
- ❖ Calculation of search “hit quality”
- ❖ Commercial database with over 8000 materials (sold separately)

中文 Chinese language software available.



### Add-on Options

- ❖ RSIQ-QUANT  
*multivariate analysis tool*
- ❖ RSIQ-CFR  
*supports 21 CFR Part 11*



### Included Accessories

- ❖ Notebook PC, RSIQ pre-installed
- ❖ Fiber optic probe for solids, liquids and powders
- ❖ Sample compartment for liquid sample vials
- ❖ Safety goggles block laser emission

### Optional Accessories

- ❖ Complete microscope systems
- ❖ Lab microscope conversion kits
- ❖ Probe holder with rack and pinion vertical adjustment
- ❖ Ball lens probe immersion shaft



CLASS IIIb LASER PRODUCT  
AVOID DIRECT EXPOSURE TO BEAM

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Specifications subject to change without notice.  
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