PeakSeeker™

Raman Systems Most Practical System

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.

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.

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.

Specifications

Model Number	PEK-785
Excitation Wavelength (nm)	785
Laser Power (mW)	5 to 300
Spectral Range, Raman Shift (cm^{-1})	200 to 3000
Spectral Resolution (cm^{-1})	~ 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 (ºC)	-25 to 45

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.
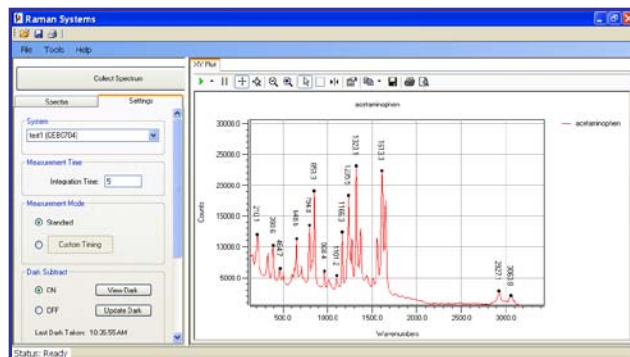
Order code: PEK-785

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