PeakSeeker Pro™

Raman Systems Most Versatile System

The **PeakSeeker Pro** represents the state-of-the-art for an accurate, cost-effective and easy-to-use Raman spectrometer. The premier instrument in the Raman Systems family utilizes TE-cooled, high efficiency CCD detector arrays, and is available configured with either a 532 nm or 785 nm wavelength excitation laser selected by the system model number.

PeakSeeker Pro is extremely versatile for measuring multiple sample types. Sampling accessories include a vial holder for liquids and powders. User friendly software and USB connectivity enables truly plug and play operation. The external probe accesses remote samples and interfaces to video microscopy options.

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 **PeakSeeker Pro** fully meets the stringent requirements of USP Monograph 1120 for resolution, sensitivity and stability. The detector array is cooled to -20 C. 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 Pro** 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 (Only for Pro-785).

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	PRO-785	PRO-785E	PRO-532
Excitation Wavelength (nm)	785	785	532
Laser Power (mW)	5 to 300	5 to 300	100
Spectral Range, Raman Shift (cm^{-1})	200 to 2000	200 to 3900	200 to 4500
Spectral Resolution (cm^{-1})	8 (optional 6)	14	13 (optional 8)
Signal-to-Noise Ratio	1000:1 (at full signal)		
Optics	NA = 0.22, Laser spot size = 0.1 to 0.2 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 (℃)	-25 to 45		

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Measurement Versatility

The **PeakSeeker Pro** 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: PRO-785

Software

RSIQ™ (included)
Raman Spectroscopy Software
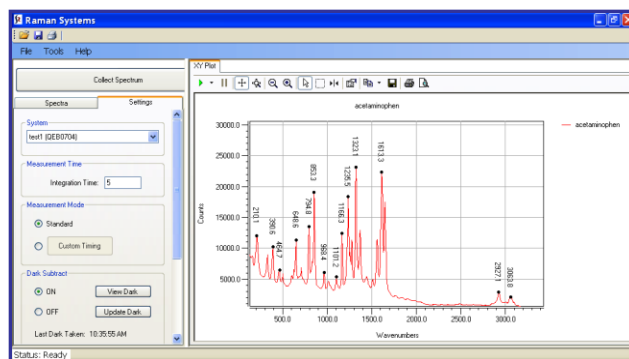**Spectral Acquisition and Display**
- ❖ User-friendly interface, routine analysis
- ❖ One-touch data acquisition
- ❖ Two data formats: SPC and ASCII
- ❖ Easy instrument verification
- ❖ Spectral smoothing & peak labeling

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.