

INPIRE-3785

RamanPeak Pharma Life Science Systems



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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The INPIRE-3785 by ATL 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 INPIRE-3785 is ideal for Raman feasibility studies, teaching labs, or fundamental research. The INPIRE-3785 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.

►► 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 INPIRE-3785 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-ANAL enables substance ID by a database search of thousands of reference spectra using commercially available spectral libraries. Users can also create unique libraries.

RSIQ-CALC is a multivariate analysis tool and

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

►► Specifications

| Model Number | INPIRE-3785 |
|---|---|
| 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 (°C) | -25 to 45 |

►► Measurement Versatility

The INPIRE-3785 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.



►► RSIQ (included)

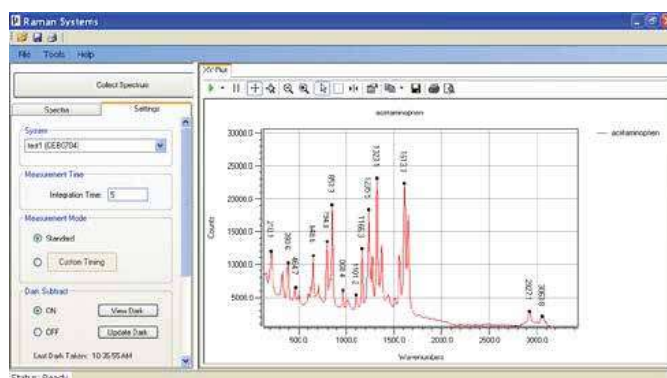
Raman Spectroscopy Software Spectral Acquisition and Displa

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

►► RSIQ-ANAL (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)



►► 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

- Notebook PC, RSIQ pre-installed
- Lab microscope conversion kits
- Probe holder with rack and pinion vertical adjustment
- Ball lens probe immersion shaft

►► Add-on Options

- RSIQ-CALC
multivariate analysis tool
- RSIQ-CFR
supports 21 CFR Part 11

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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