

Handheld Raman Spectrometer

Model: HRS 3000

The “Point, Click, Done” Handheld Solution for Substance Identification



The **Handheld Raman** packs a full featured Raman Spectrometer system in a remarkably affordable true handheld format. The lightweight unit is controlled by a pocket-size Windows® computer and features easy-to-use software that provides one-touch identification of unknown substances by immediate comparison of a measured spectrum to the on-board Raman spectral library.

Specifications

Excitation Wavelength	1064 nm
Laser Power	5 to 300 mW
Raman Spectral Range	200 to 3000 cm ⁻¹
Spectral Resolution	~9 cm ⁻¹
Signal-to-Noise Ratio	250:1 (at full signal)
Collection Optics	NA = 0.28, working distance = 5 mm spot size 0.1 mm
Power	Rechargeable battery, >4 hr, charge time <1 hour
Size	8.5" x 4.3" x 2.5" (215 x 110 x 64 mm)
Weight	3 lb. (1.4 kg)
Operating Temperature	-25 °C to 70 °C

Benefits

Easy and Fast Substance Identification

Many substances emit a characteristic light when illuminated with a laser, the Raman scatter effect, that uniquely identifies molecular structure.

With a touch of a button, the **Handheld Raman** collects and analyzes this scattered light from a chemical under test. The included software can search thousands of stored reference spectra to identify unknown substances. Within seconds, the detected chemical is identified and its name and properties displayed.

Affordable, Compact, High Performance

The **Handheld Raman** provides the same performance as other handheld Raman spectrometers proposed for homeland security or on-site chemical identification but costs much less. Dust, water and shock proof rugged construction with compliance to international standards

Wide Chemical Coverage

The included software will search a database of more than 10,000 chemicals to find a match within a few seconds after data acquisition. Spectral Library include reference Raman spectra for General Chemical, General Precursor, Cutting Agent, Explosives, Narcotic, Narcotic Precursor, Pharmaceutical, Solvent, Steroid etc.

Specialized chemical databases are sold separately. Users can also create their own custom spectral libraries.

Substance ID of Packaged Materials

Solid, powder or liquid samples can be analyzed while still contained in plastic bags or glass or plastic bottles or vials.

It has outstanding user safety with no need for laser safety trainings or a laser safety program or any special laser safety requirements or special precautions like personal protective equipment.



Support & Services

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing	:We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
Trainings	:We also take up preventive Maintenance to reduce downtime of HPLC's
AMC's/CMC	:We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.
Validations	:We have protocols for carrying out periodic Validations as per GLP/GMP/U SFDA norms
Instruments	:We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



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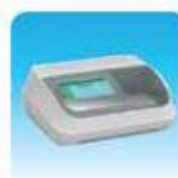
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2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

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

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