

SPECTROMETERS Raman MicroSCOPE

a taste of light

RAMAN MICROSCOPE

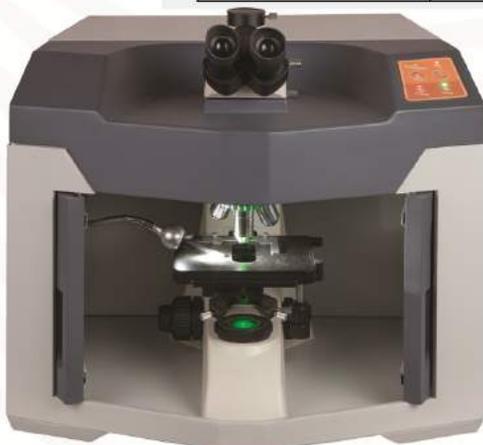


Applications

- ✓ Nanotechnology
- ✓ Geological
- ✓ Chemicals
- ✓ Pharmaceuticals
- ✓ Polymers
- ✓ Forensics

Laser	Type	DPSS Nd:YAG (cw)
	Wavelength	532 nm
	Laser Power (mW)	100
	Power Control	10 Positions (from 10% to 100%) – PC Controlled
Detector	Type	Hamamatsu (High Sensitive and low noise)
	Cooling	Up to -15 °C
	Signal-to-Noise Ratio	1000:1
	Integration Time	15 ms – 10 min
Resolution & Range	Spatial Resolution On Samples (µm)	≈12
	Spectral Resolution (cm ⁻¹)	10
	Spectral Range (cm ⁻¹)	150 - 4600
Power Requirements		200 – 240 V AC, 50/60 Hz, Single Phase
Chamber	Weight (kg)	≈ 25
	Size (WxHxD)	57.5 cm x 45 cm (without eyepiece) x 59.5 cm

Specifications



Sample Formats

Powders in plastic packages

- Liquids in clear and brown glass bottles
- Powders, liquids, slurries in multi-well plates
- Samples in tubes, vials, cuvettes
- Tablets
- Samples in blister-packs

Portable Raman

Our family of portable Raman spectrometers offer you unprecedented sampling utility, allowing you to do more with less. Each system's small footprint, lightweight design, and low power consumption helps to provide research grade Raman capabilities anywhere



Applications

- Narcotics
- Forensic sciences
- pharmaceutics
- Geology
- Gemology
- Life sciences

02 | Versatility

Solid and liquid samples

01 | Design

Easy to move

03 | Raman shift range

200 - 3500 cm^{-1}

04 | Raman resolution

Less than 8 cm^{-1}

05 | Laser wavelength

Optional : 532nm- 785nm



Portable

Sensitive

Fast

Stable

Flexible

SPECTROMETERS

The Emerald spectrometer provides a significant advantage in acquisition time and spatial integrity in demanding Raman spectroscopy imaging applications.



Applications

Transmittance & Reflection
Raman
Fluorescence
Luminescence
Near IR
Absorbance
LIBS



Portable

Sensitive

Fast

Stable

Flexible

Apus Raman microscope

Focus on your project or problem, not your instrumentation

