

OEM Mini Raman Systems

Complete or components

OEM Mini Raman Systems - Complete or components

Raman Spectrometer
miniaturized to your target
size and cost

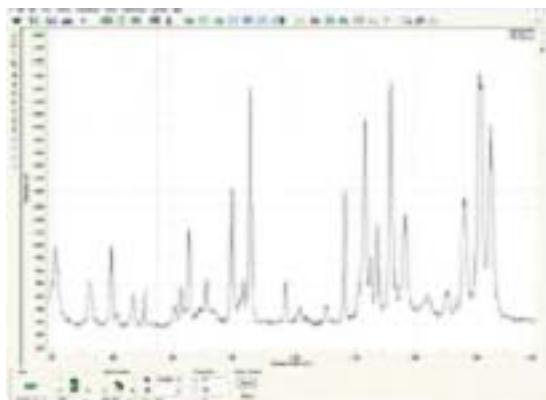
- 200 - 3700 cm^{-1} for broad coverage
- 500 - 2500 cm^{-1} for high resolution
- 20 mW - 450 mW stabilized laser
and Raman probe selections
- Ultra-sensitive CCD detection
- Compare and see for yourself
- Configurations are customized to
your needs



**Performance – Affordability –
Custom design for Volume production**

**OEM Raman for Industrial Process Control –
Homeland Security – Defense – Medical Diagnostics...**

Do you need 100 or 5000 OEM units a year?
Talk to us, we have all compact components, we can
provide systems fully tested at factory.



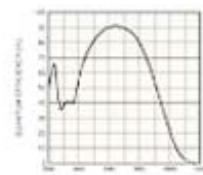
OEM miniature lasers with integrated driver and optional TE cooling.

OEM mini spectrometers with **ultra low stray light**.

OEM CCD detectors with low noise / high linearity **OEM compact electronics**.

OEM Raman bandpass & longpass filters and **sampling optics**.

From 532 nm to 785 nm, from 30 mW to 500 mW, each component is customized for OEM large volume qualified customers. The OEM division of HORIBA Jobin Yvon Inc can design and manufacture compact Raman spectrometer systems tailored specifically to your application and target costs, which you can sell under your brand name. If you already have a design and are looking for contract manufacturing, our know-how in OEM production and Raman applications will make us the ideal partner.



Products descriptions, photos and specifications are only illustrating some of our possibilities – We customize for you!

Challenge us! Tell us what your target cost is in high volume for your Raman sub-system. We will engineer a Raman engine to meet volume requirements and could amaze you with our OEM systems affordability. Just like for our other OEM spectrometer customers, we optically re-trace a miniature spectrometer to obtain the Raman shift range and resolution you need. We cost reduce lasers, filters and other optics for volume. We only quote for large OEM volume requirements, not for single miniature Raman units for one-time use.

OEM lasers:

DPSS 532 nm (50 mW or as specified)

Laser Diode 785 nm (50 mW, 75 mW, 100 mW, 350 mW...)

Specify:

- Laser bandwidth (nm) or Raman system resolution requirement (cm^{-1})
- Fiber optic coupled or direct output
- Run-time per year
- Hours of use without shut-down

Interested in a volume quotation for just the laser, contact us, and specify: wavelength, power at fiber optic output or without fiber, line bandwidth, stability & noise specifications or system data reproducibility, operating and storage temperature, size with driver electronics (external / integrated?).

OEM Miniature-Raman Spectrograph:

HORIBA Jobin Yvon systems feature holographic and ion-etched holographic gratings for superior stray light rejections. Our most compact OEM designs included ACHG concave gratings which eliminate astigmatism and mirrors. We feature high throughput, excellent peak symmetry, compactness and sturdiness.

Specify:

- Raman shift region you need to monitor
- Laser center wavelength
- Specify resolution requirements for the system including laser bandwidth
- Focal length (50 to 200 mm focal length customized), dispersion...

Or

- Minimum Raman shift on CCD: 0 cm^{-1} , 250 cm^{-1} , 400 cm^{-1} ...
- Maximum Raman shift on CCD: 2000 cm^{-1} , 2500 cm^{-1} , 3000 cm^{-1} ...

New

Miniature Raman

Complete OEM Systems

Engineered for Cost Reduction in OEM Volume

Fully Customized

Highest signal to noise

Full System or Components:

Lasers
785nm (20-300mW)
532nm (25-75mW)
Other customized wavelengths

3 Mini CCD Spectrometers
Resolution: 5 to 20 cm^{-1}
Coverage: 200 to 3700 cm^{-1}

CCD Detectors
From 200 micron height to 1.5 - 6 mm height. Optional TE

We customize Raman Systems for OEM Volumes:
Benchtop or Handheld Applications.

Spectroscopic Solutions

HORIBA Jobin Yvon Inc – OEM
www.jobinyvon.com
www.oemraman.com
 Email: Oem@jobinyvon.com
 732-494-8660 Ext 232

OEM Miniature CCD Detector with USB-2 Electronics and SDK

Front Illuminated, Open-Poly or Back-Thinned CCDs at VERY affordable prices. Excellent linearity, reproducibility and high signal to noise. We get the best performance out of a CCD chip.

Specify:

- Uncooled for cost reduction and compactness
- TE-stabilized for use in environment with temperature extremes
- TE-cooled for long exposure time requirements
- Signal to noise target, exposure time target...

OEM Raman Filters:

Bandpass filters: 532 nm, 785 nm and any wavelength in between

Longpass filters: 532 nm, 785 nm and any wavelength in between

(Our offers are limited to requests in OEM volume)

Specify:

- Laser center wavelength
- Angle of incidence for both the bandpass and the longpass filters
- How close to the laser line you wish to monitor Raman (250 cm⁻¹, 400 cm⁻¹?)
- Optionally specify what blocking (OD) you need at the intersection of the bandpass and longpass filters
- If you only wish to purchase components, specify diameter (minimum quantities apply)

OEM Sampling Optics:

Specify:

- Sample compartment requirements
- Spot size on sample: 150, 250 micron diameter...
- Minimum and maximum laser power at the sample within the above spot diameter
- Working distance
- Fiber optic requirement

Other OEM Raman System Specifications:

- Cost and volume targets
- Wish date for a prototype made to your specification
- Interest in evaluating a system that is not exactly made to your specs
- Size target, shape factors
- Weight target
- System temperature and humidity requirements
- Will the components be integrated in your housing?
- What regulations, certifications are to be considered during the design phase

CONTACT US: Simply email us your laser power requirement, spectrometer range and resolution requirements, spot size requirement on the sample, working distance, fiber or direct optics requirement, target size, volume and cost at: oem@jobinyvon.net. If possible specify all technical requirements as listed in this page. Ask for a demonstration or a prototype quotation.

HORIBA Jobin Yvon, the leader in Raman spectroscopy, now makes available its valuable experience to OEM customers in compact and cost reduced Raman components or in full mini systems that you can just label under your company name.

COMPANY PROFILE

HORIBA Jobin Yvon is one of the world's largest manufacturers of analytical and spectroscopic systems and components and we are committed to serving our customers with superior products and technical support.

Established in 1819, Jobin Yvon is part of the HORIBA Group which employs more than 4,500 people worldwide, with annual sales in excess of \$900,000,000.

HORIBA Jobin Yvon, Sofie, Dilor, Spex and IBH are some of our well known and respected brand names.

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HORIBA