

HORIBA

Scientific

Your Partner for Spectroscopy Solutions

The Optical Spectroscopy Division of HORIBA Scientific, offers the highest quality of spectrometers, monochromators and scientific cameras. Our experts in spectroscopy will work with you to build your custom spectroscopy equipment including modular Raman spectrometers, low temperature and time resolved Photoluminescence, Cathodoluminescence, Time-Correlated Single Photon Counting and VUV Spectrometers.

- ELEMENTAL ANALYSIS
- FLUORESCENCE
- GRATINGS & DEM SPECTROMETERS
- OPTICAL COMPONENTS
- FORENSICS
- PARTICLE CHARACTERIZATION
- RAMAN
- SPECTROSCOPIC ELLIPSOMETRY
- SPR IMAGING

Small Focal Length Spectrometers

The MicroHR spectrometer puts a lot of versatility and high performance into a very small package. With a footprint smaller than a sheet of paper, the MicroHR provides better than 0.3 nm resolution with either a CCD array or an exit slit with a single channel detector. The MicroHR can be configured as a simple manually tunable spectrograph or an automated dual exit spectrometer capable of acquiring data from 180 nm to 20 μm . It is the perfect candidate for low budget.



Imaging Mid-Focal Length Spectrometers

The iHR320 and iHR550 imaging spectrometers were designed to optimize image quality, remove re-diffracted light and maximize optical throughput. These spectrometers are recognized worldwide as the industry standards in imaging spectrometers. With two entrance slits, two exit slits, 3 motorized gratings and up to 3 detectors, the iHR320 and iHR550 provide the perfect platform for your demanding spectroscopy needs.



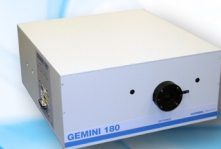
Long Focal Length Spectrometers

We offer the most extensive range of long focal length spectrometers. The FHR series offer a unique combination of drive speed, precision and high resolution over a wide spectral range extending from UV to NIR. The M Series II spectrometers offer ultimate performance with unmatched spectral resolution down to 6 picometers.



Double Monochromators

The Gemini 180 is a double additive monochromator ideal for extreme low stray light applications requiring tunable light sources. The use of toroidal optics provides the Gemini with optimum throughput and spectral resolution. The FHR-D is a double subtractive monochromator ideal for applications where spectral uniformity and resolution are important.



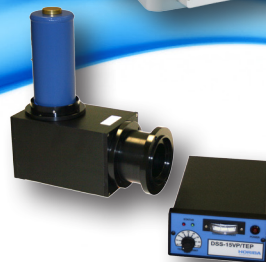
Scientific Cameras

We offer a complete line of scientific cameras with various formats of front and back illuminated CCDs for UV-Vis applications as well as InGaAs arrays for NIR detection up to 2.2 microns. Our compact thermoelectric cooled Synapse™ and Sincerity™ cameras cover most of the demanding spectroscopy applications while our liquid nitrogen cooled Symphony™ II cameras offer extremely low dark noise for low light level experiments.



Single Channel Detectors

Our extensive range of single channel detectors covers a broad spectral range from far-UV to mid-infrared. We offer photomultipliers to solid state detectors, with ambient, thermoelectric or liquid nitrogen cooling to fulfill the most demanding spectroscopic applications at an affordable price.



Lifetime Components

Add value to your current spectroscopic set up by adding lifetime measurement capabilities. We offer a comprehensive suite of laser diodes, fast detectors, timing electronics and software for time-correlated single photon counting (TCSPC), fluorophore lifetime characterization, and many other applications.



Accessories

Over the years, HORIBA has developed the most complete line of optical accessories including filter wheels, filters, sample compartments, optical fibers, light sources, optical adaptor and collimators. All are compatible with our line of spectrometers and detectors to build your custom experiment.



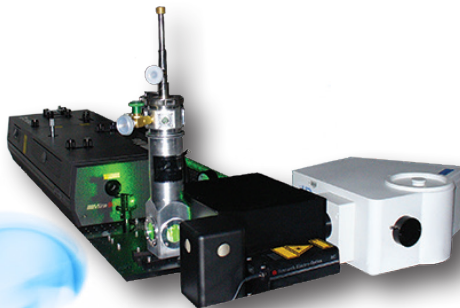
Modular Raman Spectrometers

Micro and macro Raman systems with unmatched flexibility. Offered with our well recognized LabSpec™ 6 Spectroscopy software suite, the MRS is an affordable Raman solution for qualitative and quantitative characterization of your samples.



Photoluminescence System

Micro and macro Photoluminescence systems for studying the electronic structure of your materials. We offer solutions for low temperature, time resolved and PLE measurements from UV to mid-IR.



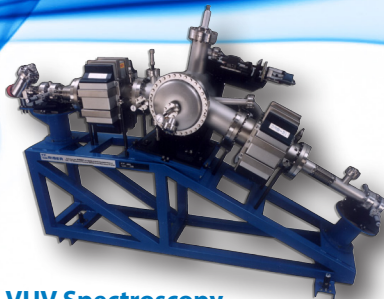
Microspectrometers

Fully integrated, flexible microspectrometer combining a versatile microscope head directly coupled to a triple-grating imaging spectrometer and research grade scientific camera. Perfect for photoluminescence, electroluminescence, and photo reflectance at the microscopic level.



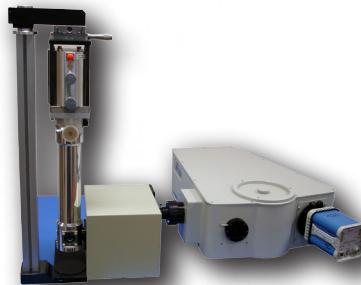
VUV Spectroscopy

By acquiring Jobin Yvon and its 200 years of optical spectroscopy experience, HORIBA provides the finest VUV monochromators, gratings and mirrors for VUV and synchrotron applications down to a few nanometers.



Custom Instruments

From detector characterization to in-situ plasma analyzer and complex microspectroscopy system, HORIBA Scientific's applications and engineering staff can provide expert advice on configuring a system for your specific experiment. HORIBA is the source of choice for your custom spectroscopy instruments.



Software

We offer a comprehensive range of software solutions to our customers. Our spectroscopy software SynerJY™ allows you to control all our components with full data acquisition and analysis capabilities. For dedicated Raman and microscopy applications, our LabSpec™ software is the best solution on the market. Finally, for customers who want to develop their own software, we offer a comprehensive set of LabVIEW™ VIs as well as a Software Development Kit.

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