

## **Nanomaterials characterisation / Horriba Jobin Yvon.**

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# HORIBA JOBIN YVON

## Nanomaterials Characterisation

HORIBA Jobin Yvon is one of the worlds largest manufacturers of spectroscopic systems and metrology products. We can provide the complete solution for nanomaterials analysis and characterisation. Researchers can now exploit the key tools of Raman, fluorescence and ellipsometry to probe the composition, chirality, bandgap and thickness of the new generation of functional materials.

Why not talk to the experts HORIBA Jobin Yvon.....

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### Raman Microscopy -

The HORIBA Jobin Yvon range of Raman spectrometers and microscopes offer the highest level of performance. True confocality provides the highest definition images, multi-wavelength operation gives access to the broadest range of samples and high resolution options probe subtle phase and structural properties.

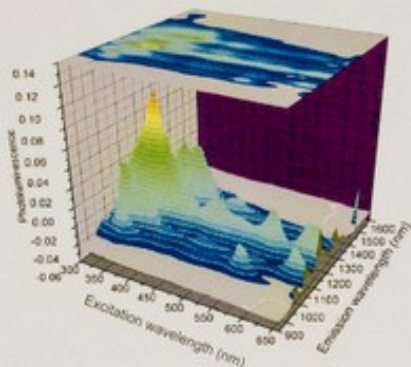


- Nanomaterials - SWCNT, Boron Nitride, breathing mode, chirality, purity
- Polymers - homogeneity and phase
- SAM and LB films - structure and composition

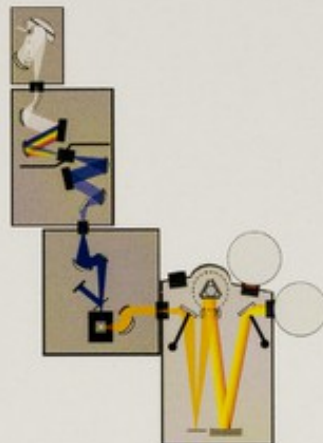


- True confocality
- High resolution
- Multi-wavelength
- Raman and NIR PL
- Combined micro Raman and FTIR
- Raman at extreme conditions

## Fluorescence -

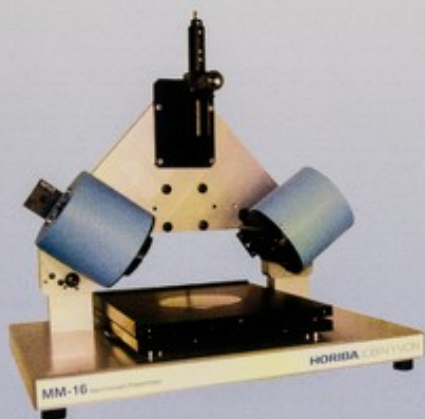


With the range of spectrofluorimeters from HORIBA Jobin Yvon you can explore an increasing number of materials and applications. Versatile and high performance equipment does not limit the scope and depth of analysis.



- Fluorescence excitation
- PLE
- Steady-state
- Lifetime
- Micro-spectroscopy
- Quantum yield
- Bio-molecules
- Nanotube dimensions
- Proteins
- Quantum Dots
- Tags and markers
- Low temperature

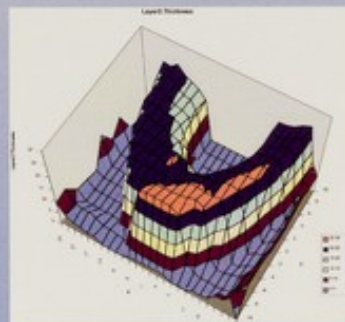
## Ellipsometry -



The MM-16 spectroscopic ellipsometer enhances the capabilities of classical ellipsometry for the characterisation of thin film thickness and optical properties. Exceptionally high accuracy and simplicity provide fast and robust sample analysis. This is only the starting point for the MM-16! The instrument delivers a complete solution for both standard and advanced film and device characterisation.

Extensive application capabilities

- Thick to ultra-thin films
- Multilayer structures
- Biomedical devices
- Display structures
- Metal films
- Bio-membranes
- Films with low index contrast
- Plastics and polymers
- Optical coatings
- Nanomaterials
- Liquid crystal structures
- Solid/liquid and liquid/liquid interface



**HORIBA** JOBIN YVON

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