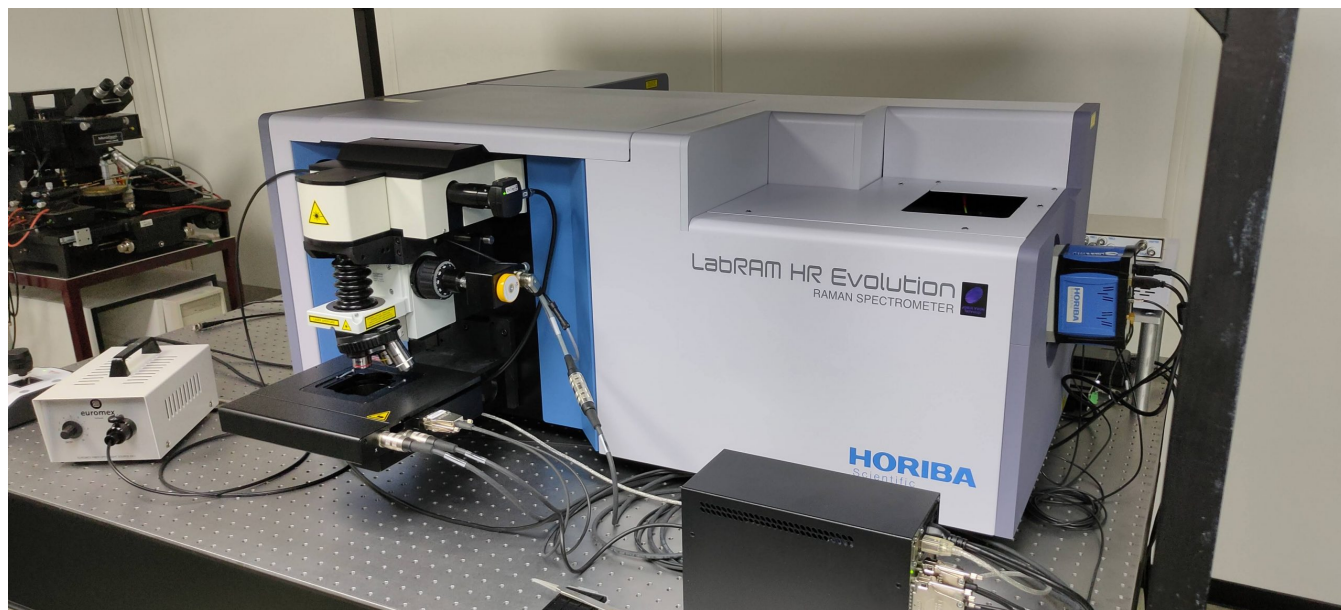


Raman confocal micro-spectroscopy and photoluminescence system

LabRAM HR Evolution UV-VIS-IR Raman Micro-spectroscopy and confocal photoluminescence equipment made by HORIBA



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Technological Offers type

Technological scientific services

Research and innovation areas

- Digital Technologies, Artificial Intelligence, Cybersecurity, 5G, Robotics
- Industry, Materials and Circular Economy
- Science For Engineering and Architecture

ODS



Available from: 2022

Where?

ISOM Semiconductor Devices Group University Optoelectronics and Microtechnology Systems Institute

Keywords: | [photoluminescence](#) | [Raman](#) | [spectroscopy](#)

Raman confocal micro-spectroscopy and photoluminescence system

Laser: 532 nm

CCD spectral range: 200- 1050 nm

Optical spectral range: 220 nm - 2200 nm

Diffraction gratings: 600 gr/mm and 1800 gr/mm optimised for $\lambda = 500$ nm; 2400 gr/mm optimised for $\lambda = 330$ nm.

Objective lenses: 5x (NA = 0.10, WD = 19.6 mm), 10x (NA = 0.25, WD = 10.6 mm) y 100x (NA = 0.90, WD = 0.21 mm) achromatic

Spectral dispersion: 0.2 cm⁻¹/pixel for $\lambda = 633$ nm and a diffraction grating of 1800 gr/mm

Spectral resolution: 0.35 cm⁻¹ (typical according to width separation criteria at mean peak height) for $\lambda = 837$ nm with a diffraction grating of 1800 gr/mm

Spatial resolution: lateral (XY) < 0,5 μ m and axial (Z) < 1,5 μ m @ $\lambda = 488$ nm

Motorised deck on XYZ axes

Range: 75 mm on X, 50 mm on Y

XY resolution: 50 nm

Z Resolution: 10 nm

Description of the services offered

Raman measurements of samples and photoluminescence

Needs requested and applications

Applicable to profiling materials

Sector or area of application

Materials Science, optics, electronics, quantum technologies

Differential skills

High resolution RAMAN measuring equipment with the best features on the market.

Equipment description

ISOM, HTSE for Telecommunications

Request for service

[Protocolo de Acceso](#)

