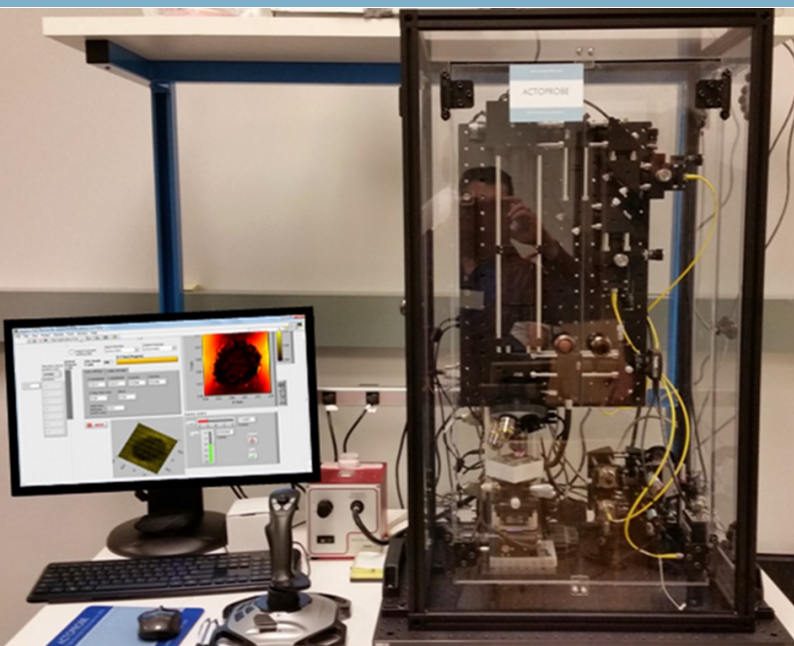


Scanning Confocal Microscope for Small Pixel FPA characterization

ACTO-SCM

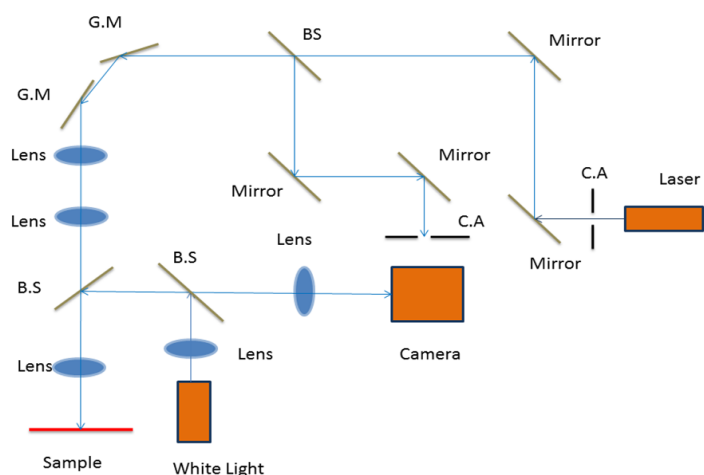


ACTO-SCM is a Scanning Laser Confocal Microscope to do:

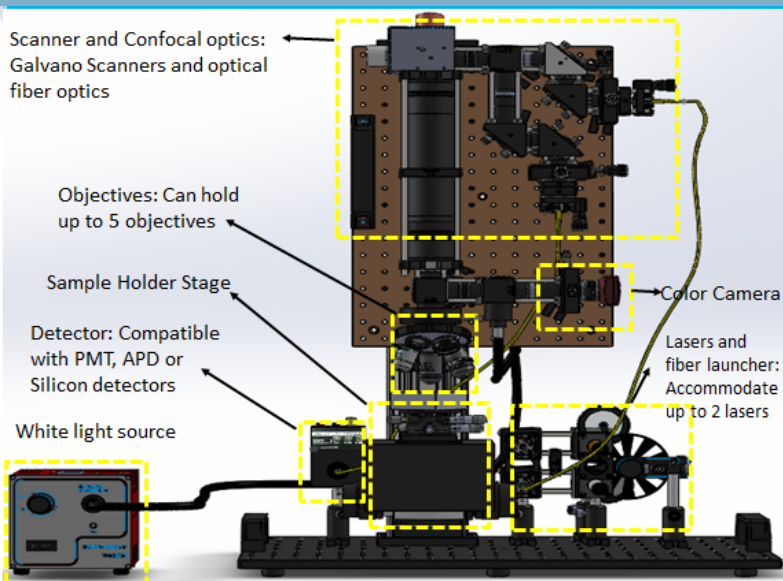
- FPA sidewall characterization
- Chemistry analysis on nano-scale applying Raman spectroscopy
- Fast scanning

ACTO-SCM is the most flexible system on the market designed to combine scanning confocal optical microscope with Raman spectrometer and Atomic Force Microscope

Optical Schematic



Components



ACTO-SCM includes:

- Scanner and Confocal optics
- Objectives
- Sample Holder Stage
- Detector
- White light source
- Color Camera (CMOS).

Specifications: Fast Imaging capabilities - 4 fp/sec to 30 fp/sec, **Optical sectioning** – up to 100 μm , **Field of scan** - up to 280 μms , **Suitable for wavelengths** - from 300nm to 700nm.

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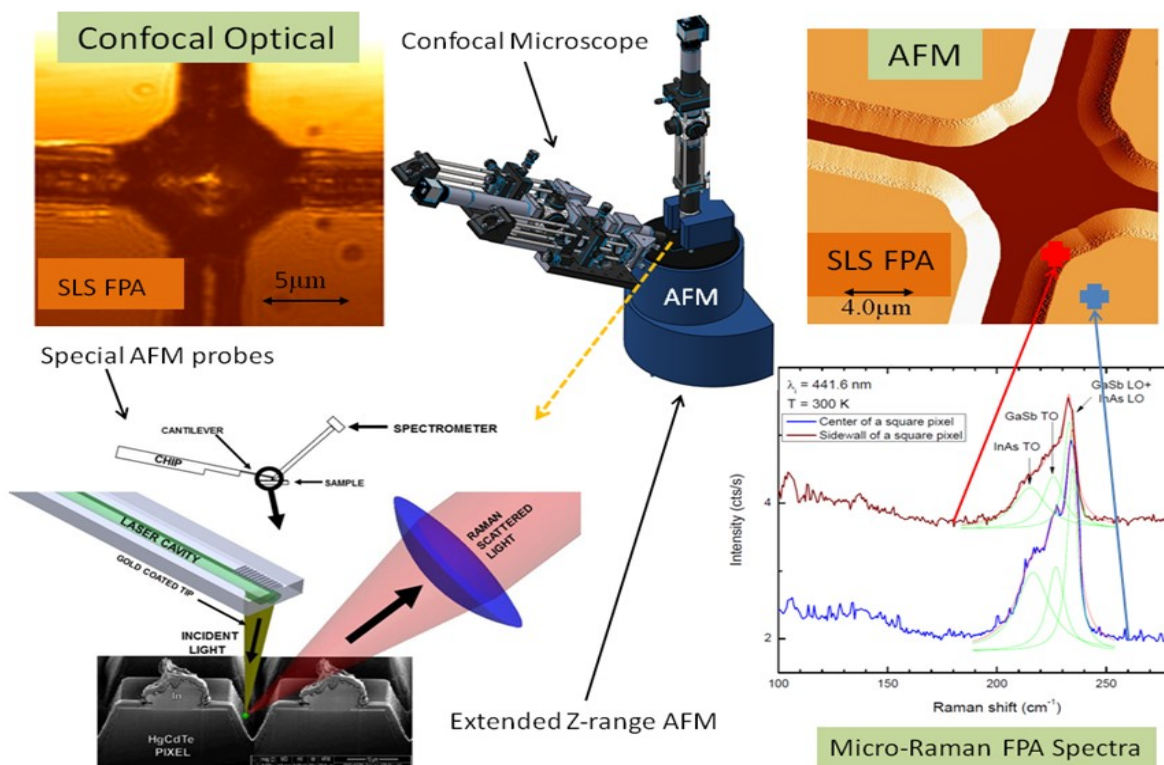
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Combining Scanning Confocal Microscopy (SCM) with Raman Spectroscopy

TERS instrument for FPA side walls characterization



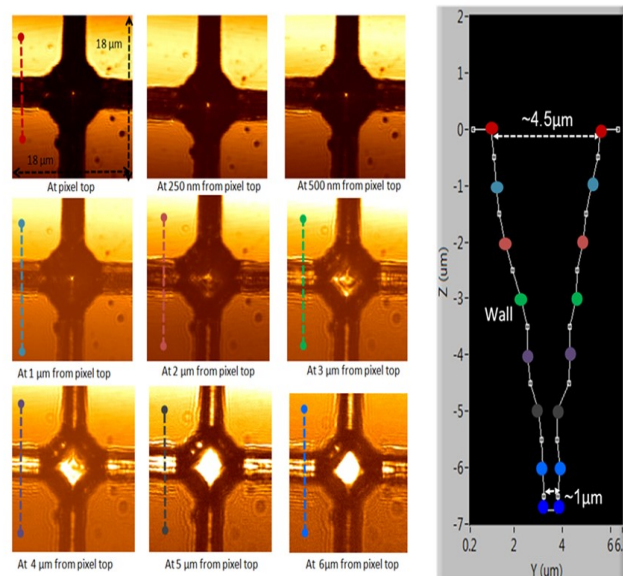
Application

Small pixel FPA sidewall characterization

Combination of SCM with AFM and Raman spectroscopy

3-D reconstruction to obtain FPA side wall profile applying slicing technique

Through optical sectioning a side wall profile can be obtained. Images are focused at different depths from the pixel top (left). The dashed lines (different colors) inside the figures correspond to the cross sections used to create the FPA side wall profile (right).



We do not sell you a new AFM! We provide you with an accessory to your existing AFM to do optical microscopy and spectroscopy on single molecular level.

We are looking forward to discuss how we can help you!

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