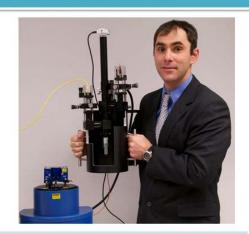
# Optical Spectroscopy and Confocal Microscopy for Atomic Force Microscopes (AFM)

### Our Products: ACTO-L





"ACTO-L"

AFM
( conventional Atomic Force Microscope)

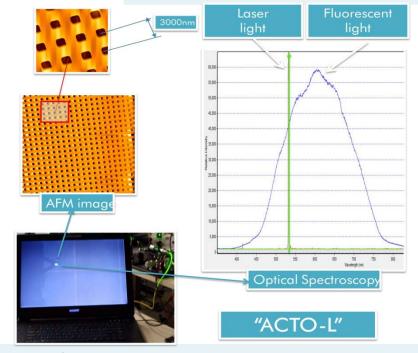
ACTO-L – complete system for conventional AFM to do:

- -Combining AFM imaging with scanning optical microscopy and spectroscopy (PL, reflection and transmission) in real time
- -Single Molecular Spectroscopy (including Raman and Fluorescence)
- -Photoluminescence (PL) and refractive index mapping with submicron lateral resolution
- -Cost is up to 5-10 times less than AFM microscopy–spectroscopy systems with similar characteristics.

#### **ACTO-L** includes:

- -Adaptor to mount on AFM with x,y,z stage
- -Optical confocal microscope unit
- -Digital camera (CMOS)
- -Fiber Optic Illuminator (30W)
- -Green Laser (532nm, 20mW)
- -CCD-based spectrometer (350nm-1050nm)
- -Essential software

This system produces sub-nanometer AFM image and optical image with lateral resolution **better than 500nm** simultaneously.



**Specifications:** Optical resolution - up to 250nm, Weight - 4kg to 10 kg, Optical Mechanical stability - better than 200nm, Spectral range - from 350nm to 2000nm.

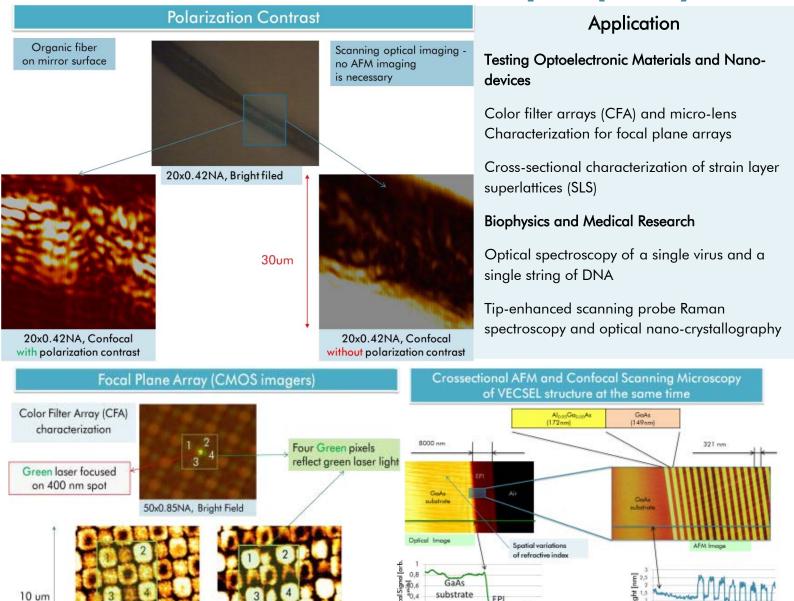
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## Optical Spectroscopy and Confocal Microscopy for Atomic Force Microscopes (AFM)



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.

20x0.42NA, Confocal optical image

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

20

Distance [um]

Distance [nm]

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