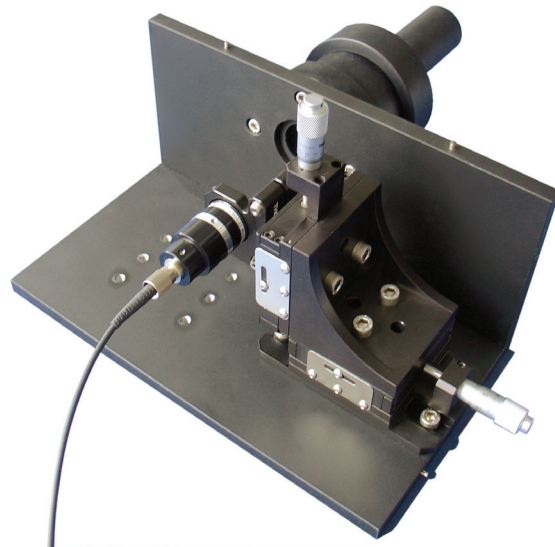


SASAM® OPTO

Optoacoustic Microscopy

- GHz optoacoustic imaging
- resolution < 5 μ m
- 532 / 1064 nm excitation wavelength
- diffraction limited excitation
- automated confocal alignment
- addon for SASAM® IN
- fast data acquisition
- 3D imaging



The **SASAM® OPTO** module consists of pulsed solid state laser source, optical components for laser beam coupling and control electronics for integration into the SASAM® system.

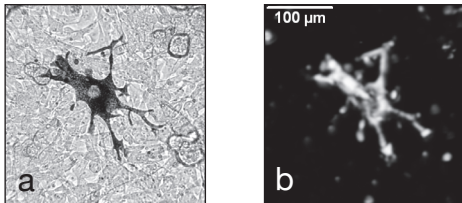
Features:

Hybrid imaging system - The module enables high resolution optoacoustic imaging. With our SASAM® IN system, a spatial resolution of 5 μ m is achieved.

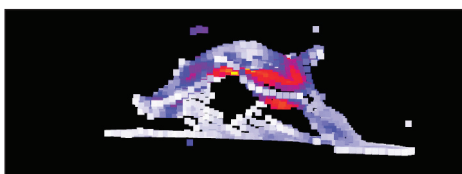
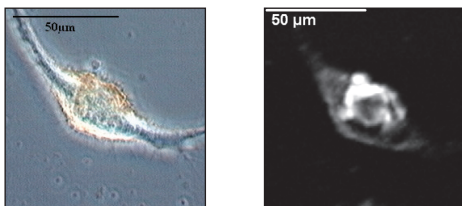
Confocal imaging technique – advanced optical light delivery based on monomode fiber coupling and diffraction limited illumination for confocal optoacoustic imaging

Ultra-fast scanning – the use of a dual-wavelength kHz repeating Nd:YAG laser allows acquisition of optoacoustic 3D data sets within minutes. (multispectral OPO Version on request)

Multiple Applications – In combination with the SASAM® acoustic microscope it is an ideal tool for research in the field of material sciences, life cell imaging as well as molecular imaging of different ligands such as kibero nanoAgents with resolution on the micrometer scale.



Phase contrast image (a) and high resolution optoacoustic image (b) of single melanoma cell



High resolution optoacoustic image of single cell incubated with magnetite particles for 24h. 3D reconstruction of particle distribution.