

OCT System

High resolution supercontinuum OCT system

- 1.2 μm axial resolution
- 2.5 μm lateral resolution
- Ready to use including software
- Small animal imaging
- Non-destructive testing



Optical Coherence Tomography (OCT) is a non-destructive analysis technique that can provide detailed information on refractive index variations and scattering on a micrometer scale for partly transmitting materials.

Powered by our broadband SuperK EXTREME OCT laser in combination with the Thorlabs Ganymede OCT engine, the system provides an ultra high axial resolution of 1.2 μm in tissue.

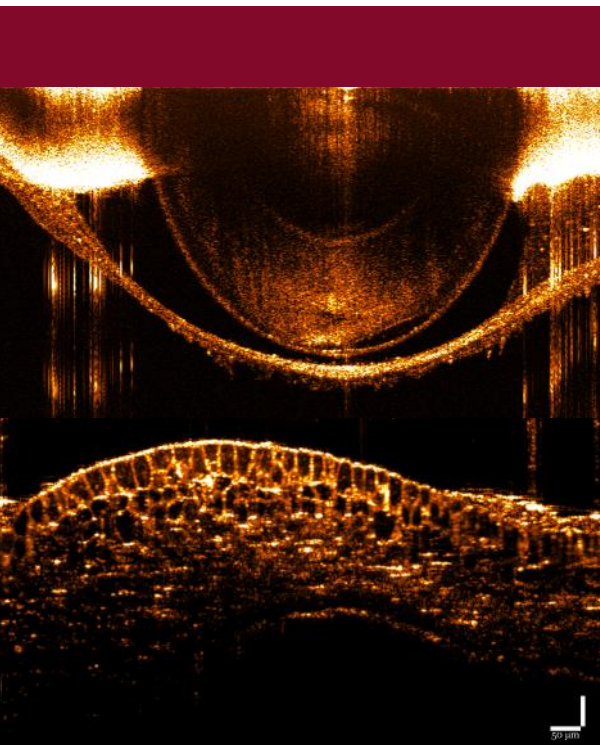
With a lateral resolution down to 2.5 μm , the system is a versatile tool for a multitude of applications ranging from tomography of small animals to non-destructive testing of industrial materials.

The system is extremely flexible and allows the user to optimize the scanning area, scanning speed and data processing to the specific sample under investigation.

Specifications

Center Wavelength	800 nm
Optical bandwidth	300 nm
Maximum Field of View (L x W x D)	6 x 6 x 1.0 mm
A-scan linerate	Up to 36 kHz
Axial resolution	1.6 μm in air 1.2 μm in tissue
Lateral resolution	Down to 2.5 μm
Optical power at sample	Up to 10 mW
Sensitivity	90 dB
Maximum number of pixels per A-scan	1024

All NKT Photonics products are produced under our quality management



NKT Photonics A/S (Headquarters)
Blokken 84, 3460 Birkerød, Denmark
Phone: +45 4348 3900
Fax: +45 4348 3901

NKT Photonics GmbH
Schanzenstrasse 39, Bldg D9-D13
51063 Cologne, Germany
Phone: +49 221 99511-0
Fax: +49 221 99511-650

NKT Photonics Inc.
1400 Campus Drive West
Morgantown NJ 07751, USA