

Press Release: For immediate release

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National Physical Laboratory purchases state-of-the-art OCT scanner from Michelson Diagnostics to use in groundbreaking research

(228 Words)

The UK's National Physical Laboratory (NPL) has taken delivery of a state-of-the-art Optical Coherence Tomography (OCT) scanner from Kent-based Michelson Diagnostics Ltd. The OCT scanner will be used in NPL's leading-edge research into quantifying results from this new type of medical imaging technology.

“Our research will underpin the application of OCT imaging to a huge range of applications, such as in diagnosis of cancer, tissue engineering and new ways of looking at tooth decay and dental biomaterials”, said Dr Pete Tomlins, leader of the research team at NPL. “We aim to measure the optical properties of biological materials from OCT scans – traceable measurements will enable clinicians to take important treatment decisions from the images, with confidence in their accuracy.”

NPL chose the Michelson Diagnostics EX1301 OCT scanner in a competitive tender, after evaluating performance of several competing products. The EX1301 provides double the image resolution, by virtue of its novel optical design – a key factor affecting the decision, according to Dr Tomlins.

Optical Coherence Tomography is a new type of medical imaging technology that can provide sub-surface images of biological tissue at far higher resolution than is possible with ultrasound, MRI or CT scanners. It uses a low-power laser, safe to patients and clinicians, to perform the scan, and can be used during an operation or clinical procedure, to see changes in tissue that are caused by disease.

For further details, please contact Jon Holmes, Chief Executive, on +44 (0)20 8308 1695,

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Higher resolution versions of the pictures are available on request from the contact above.

Michelson Diagnostics Ltd

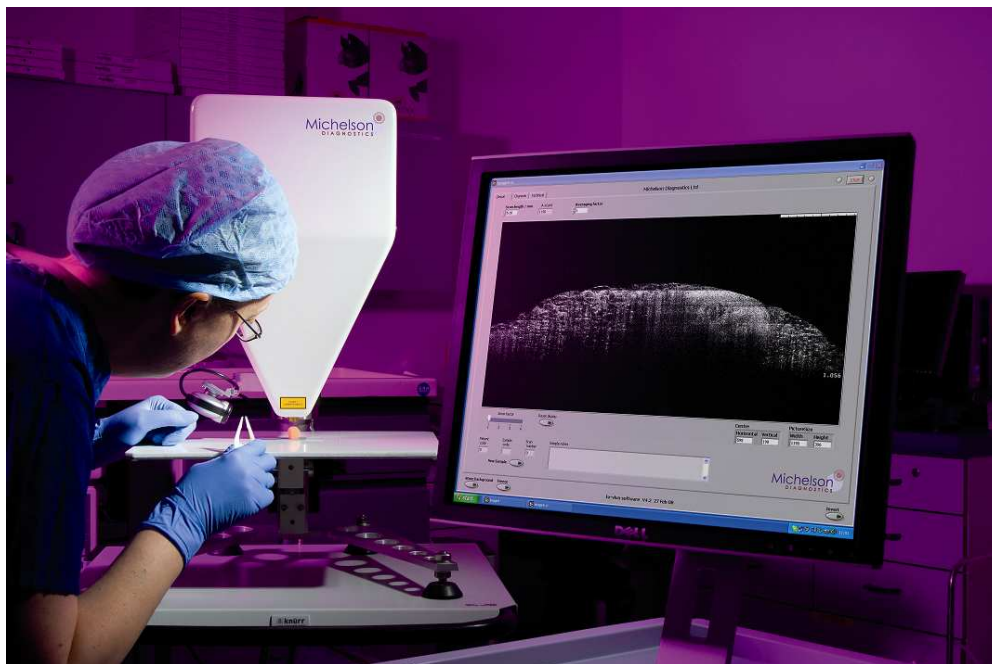
Michelson Diagnostics Ltd is the UK's leading independent manufacturer and developer of Optical Coherence Tomography medical imaging equipment. Founded in 2006, it is based in SE London, UK. The company's highly innovative optical probe technology offers the best commercially available sub-surface OCT images for research applications in cancer surgery guidance, surveillance and diagnosis.

National Physical Laboratory

The National Physical Laboratory (NPL) is the UK's National Measurement Institute and is a world-leading centre of excellence in developing and applying the most accurate measurement standards, science and technology available to man. For more than a century NPL has developed and maintained the nation's primary measurement standards. These standards underpin an infrastructure of traceability throughout the UK and the world that ensures accuracy and consistency of measurement.

Images:

- (1) EX1301 OCT microscope being used to study biological sample



- (2) In-vivo OCT image of finger pad, taken with wide-sweep laser option. Scale bar is 1 mm. Image size 6 mm x 1 mm Pixel size 4.5 μm . Note the helical sweat glands.

