WINDSOR SCIENTIFIC

Windsor Scientific is distributing the Lyncée-tec range of Digital Holographic Microscopes (DHM) in the UK and Ireland. Digital Holographic Microscopy (DHM) is an innovative technique that generates real-time high-resolution 3D digital images of a sample.

The instrument is available in two ranges, depending on whether the application is for reflective or transmitted mode, i.e. solid or transparent surfaces. Software analysis using the associated Koala software package reveals surface topographical data with sub-nanometre vertical resolution for the reflective mode, quantitative morphological properties of biological specimens (such as refractive index) and thickness using the transmitted mode.

DHM offers real time non-invasive measurements with short acquisition times. It involves no moving parts and no contact with the sample. Few precautions are needed allowing long-term monitoring of biological samples. In addition, it does not require pre-treatment, such as contrasting agents.

The high resolution in the z-axis permits the measurement of nanostructures and is ideal for surface analysis where quick results are needed.

Applications are diverse and include cell monitoring in live specimens such as neurons, red blood cells, cell lines in life science, as well as surface analysis of MEMS, mirrors, optics, gratings and wafers.

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electro optics

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