

HIROX 3D LIGHT MICROSCOPE

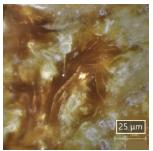
The Hirox digital light microscope comprises motorised stage and motorised lens system that enables true colour imaging of both macro samples (large areas at low magnification) and high resolution using a 5000x lens. Software control of the lenses and acquisition automation also enables focused imaging of topographic surfaces, profilometry, roughness measurements and 3D modelling.

Application Examples

- High resolution, true colour images of biological and mineral samples
- 3D profiling of corrosion pits
- · Image stitching covering a large area, such as a brick or concrete sample
- Real time video recording of process details from various angles



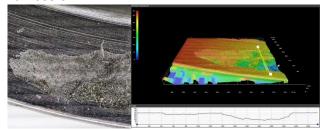
Glass from an impact melt site from a meteorite, demonstrating bubbles and impurities



25 µm scale bar image showing striations within an impact melt grain

Key Capabilities

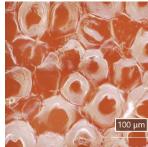
- Imaging over a wide range of magnifications (20x -5,000x). High resolution imaging (down to 0.5 μm) across the entire sample (up to 100 cm² size) with automatic stitching capability
- · 3D modelling with quantitative measurements of height, roughness and volume
- Isometric view with the rotary head attachment
- Reflective sample imaging using polarisers and diffusers



Software analysis of a corrosion pit within metal using 3D tiling



Large area, stitched image of a piece of tomato



Single image from the stitched image at left, using the multi-focus function to show cell structures

For more information

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