



Laboratory Services **Advanced Digital Microscopy**

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Advanced Digital Microscopy

Overview

After initial visual inspection and cleaning, conventional optical microscopy is often the next stage in failure investigation and root cause analysis. Optical imaging methods have continued to advance through improvements in lighting, software, automation and sensors which enhance the speed and quality of inspection processes and allow for the capture of high-definition images. All with the benefit of excellent and true colour reproduction.

Brookes Bell digital microscopes are designed for flexible and complicated scopes of inspection and can cater for a broad range of different sample types, across a wide range of magnifications and inspection techniques.

Our microscopes are designed for:

- General inspection
- Fractographic analysis
- Weld analysis
- Microstructural inspection
- High precision measurements
- Joint witnessed analysis
- Magnified Imaging of Printed Circuit Boards
- Quality Control Inspection in Manufacturing

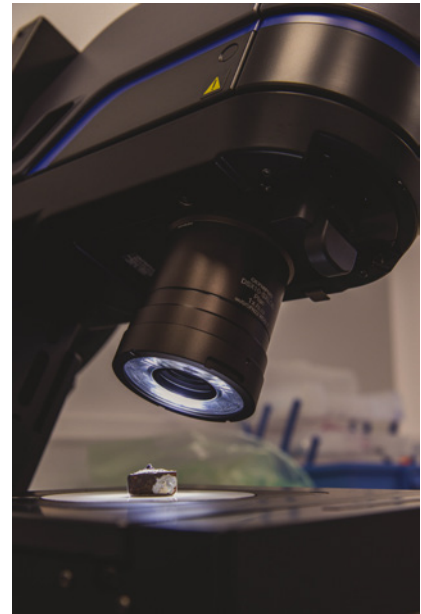
Our equipment can quickly and consistently transition between different observation modes, including brightfield, darkfield and polarised viewing options and across a wide range of magnifications (from low magnification through to x2800). Although our equipment was chosen with metallurgical inspection in mind, they would be just as capable examining fibres or other organic material.

We have lenses which operate with long working distances which are ideal for plan inspection of uneven samples, such as fracture surfaces. We have material lenses for close up microstructural work. We can generate 3D images of particular areas of interest and can stack multiple images, taken at different focal lengths, to create clear fully in focus images.

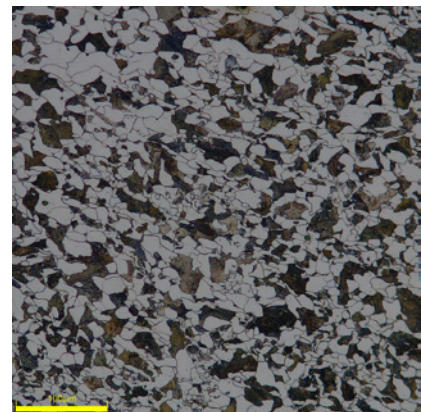
For more advanced and more higher magnification inspection we also have Scanning Electron Microscopy (SEM) capabilities.

Whatever your technical or scientific requirements Brookes Bell has a highly skilled and experienced team of experts ready to help you.

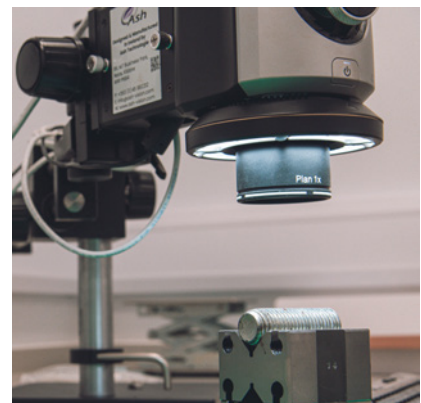
For more information please visit our website (www.brookesbell.com) or contact us on **+44 (0)151 236 0083**.



Long working distance lens and tilting microscope head can be used for unique viewing angles



Material lenses can be used for high magnification inspection of microstructures



Digital microscopy can be used for a range of components