

High-Performance Microscopy for BSL-2+/3/4 Laboratories

With the new BC43 Confocal Microscope, Oxford Instruments introduces an imaging system specifically designed for high-containment laboratories at BSL-2+, BSL-3, and BSL-4. The system combines powerful, reproducible imaging with validated fumigation and decontamination workflows that fully preserve the warranty allied with a service solution designed for BSL providing unique advantages for research teams in highly regulated environments.

Optimized for Limited Space and Demanding Conditions

BSL laboratories confront research teams with significant daily challenges: restricted workspace, limited mobility due to personal protective equipment, strict quality-control requirements, and reduced access for maintenance. The BC43 for BSL environments has been engineered specifically to address these conditions.

Its compact, light-tight design allows installation even in severely constrained laboratory spaces without requiring structural modifications. At the same time, quality control compliant workflows and highly stable illumination ensure audit-ready, reproducible data.

With the integrated Fusion software, image acquisition is greatly simplified. Guided workflows ensure that different users obtain consistent results.

Key Advantages for BSL-3 Laboratories

- Validated disinfection and fumigation workflows – System can be fumigated and are fully covered by warranty
- Compact footprint – ideal for tight spaces, no room modifications required
- QC-compliant, reproducible imaging – ideal for regulated studies
- Intuitive, guided operation – minimal training required
- BSL-optimized service concept for maximum operational uptime
- The specially developed BSL service model minimizes downtime and keeps systems fully operational.

Combined with powerful 3D visualization, segmentation, and QC-sensitive analysis, the BC43 delivers the confocal data quality that modern high-containment laboratories depend on. Accessories for live cell analysis such as incubators or environmental control facilitate comprehensive infection studies directly in the BSL lab.

By bringing together cutting-edge tools and expert know-how, Oxford Instruments continues to support customers across a broad variety of market segments in tackling complex challenges and driving meaningful progress in their fields. Visit us at booth no. **A2.407** and talk to our experts.

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About Oxford Instruments

Oxford Instruments provides academic and commercial organisations worldwide with market-leading scientific technology and expertise across its key market segments: materials analysis, semiconductors, and healthcare & life science.

Innovation is the driving force behind Oxford Instruments' growth and success, supporting its core purpose to accelerate the breakthroughs that create a brighter future for our world. The vigorous search for new ways to make our world greener, healthier and more productive is driving unprecedented levels of R&D investment in new materials and techniques to support productivity and decarbonisation worldwide, creating a significant opportunity for Oxford Instruments to grow.

Oxford Instruments holds a unique position to anticipate global drivers and connect academic researchers with commercial applications engineers, acting as a catalyst that powers real world progress. Founded in 1959 as the first technology business to be spun out from Oxford University, Oxford Instruments is now a global, FTSE250 company listed on the London Stock Exchange (OXIG).

For more information, visit www.oxinst.com