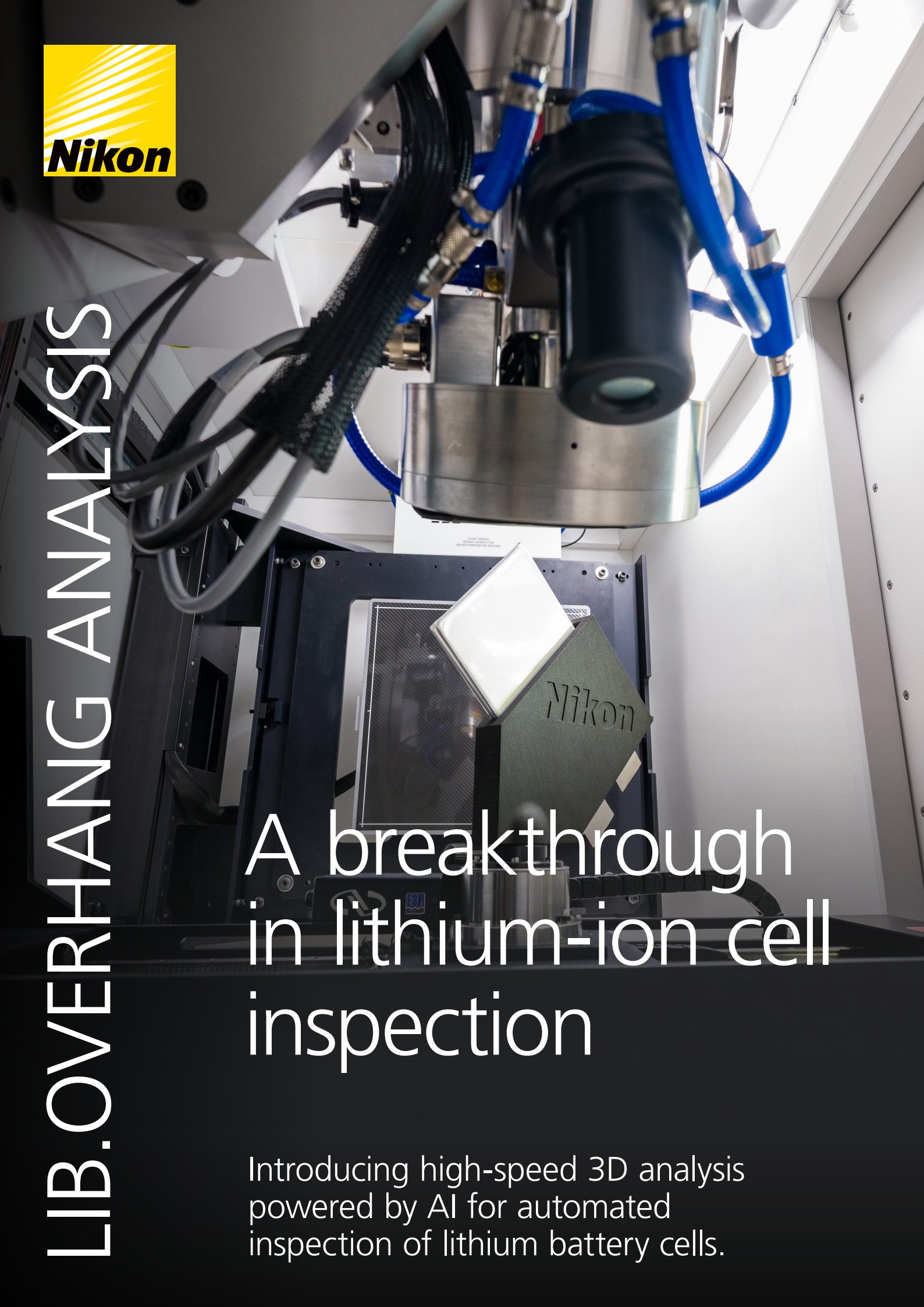# Nikon

LIB.OVERHANG ANALYSIS

A breakthrough in lithium-ion cell inspection

Introducing high-speed 3D analysis powered by AI for automated inspection of lithium battery cells.

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LIB.OVERHANG ANALYSIS

LiB.Overhang Analysis introduces **3D overhang measurement** to the shop floor.

With **cutting-edge AI**, in-house **reconstruction algorithms** and **advanced X-ray source technology**, anode overhang can now be measured in 3D faster and more precisely than before.

KEY BENEFITS:

- **END-TO-END SYSTEM SOLUTION**
  Optimized software and hardware configuration from Nikon's CT expertise

- **IMPROVED PRODUCTIVITY**
  AI analysis technology works reliably together with super-fast CT scans

- **FULLY AUTOMATED**
  Automatic analysis from start to finish without operator intervention

- **BUILT FOR THE SHOP FLOOR**
  Machine-readable output for integration within process control systems

- **GET THE FULL PICTURE**
  Repeatable analysis driven by 3D data – not just 2D images
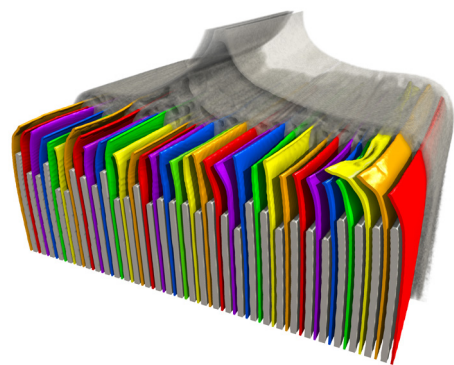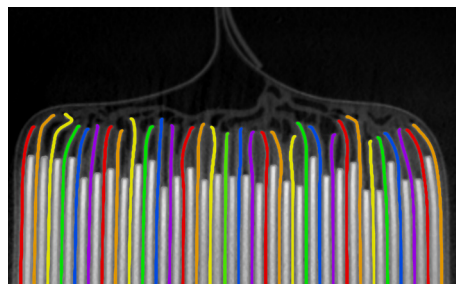
LiB.Overhang Analysis exports a broad range of statistics, enabling automatic sentencing and closed-loop production line feedback. Nikon's experts provide an end-to-end solution, optimizing Nikon hardware and software together for each application.

Nikon's unique Rotating.Target 2.0 and Half-Turn CT already provide high-speed scanning of Lithium cells. LiB.Overhang Analysis produces a highly repeatable output regardless of the typical noise and scan artefacts associated with fast scans, allowing the scan time to be shortened even further. Combining these features as a single solution enables analysis of production-level scans which are orders of magnitude faster than conventional methods.