

EBS

EDS

AZtec[®]

A-Z technology for nanoanalysis

**fast
accurate**

**flexible
innovative**

**The most powerful,
most flexible materials
characterisation system
you'll ever see**



The Business of Science[®]



ACCURATE

AZtec

Performance at the nanoscale...

Element ID using Tru-Q™ technology for accurate and automatic analysis.

AZtec brings new levels of certainty and detail



The most accurate

Oxford Instruments' reputation is built on data integrity. AZtec takes that to a new level...

- The EDS engine, 'Tru-Q™', uses new technology to deliver results that previously could only be achieved by experts
- The EBSD engine, 'Tru-ITM™', guarantees you'll see the real differences in your sample
- The best results automatically, **AZtec** takes care of element ID, quantitative analysis, pulse pile-up removal and more
- Tailor your analysis when needed
- No prior knowledge of the sample required – **AZtec** will unveil all the elements and the structure



Solve EBSD patterns using Tru-ITM™.

Contact us for detailed product brochures and technical notes

REAL-TIME

...the fastest end-to-end process

The most innovative

AZtechnology pushes the boundaries of nanoanalysis, making it easier, faster, better...

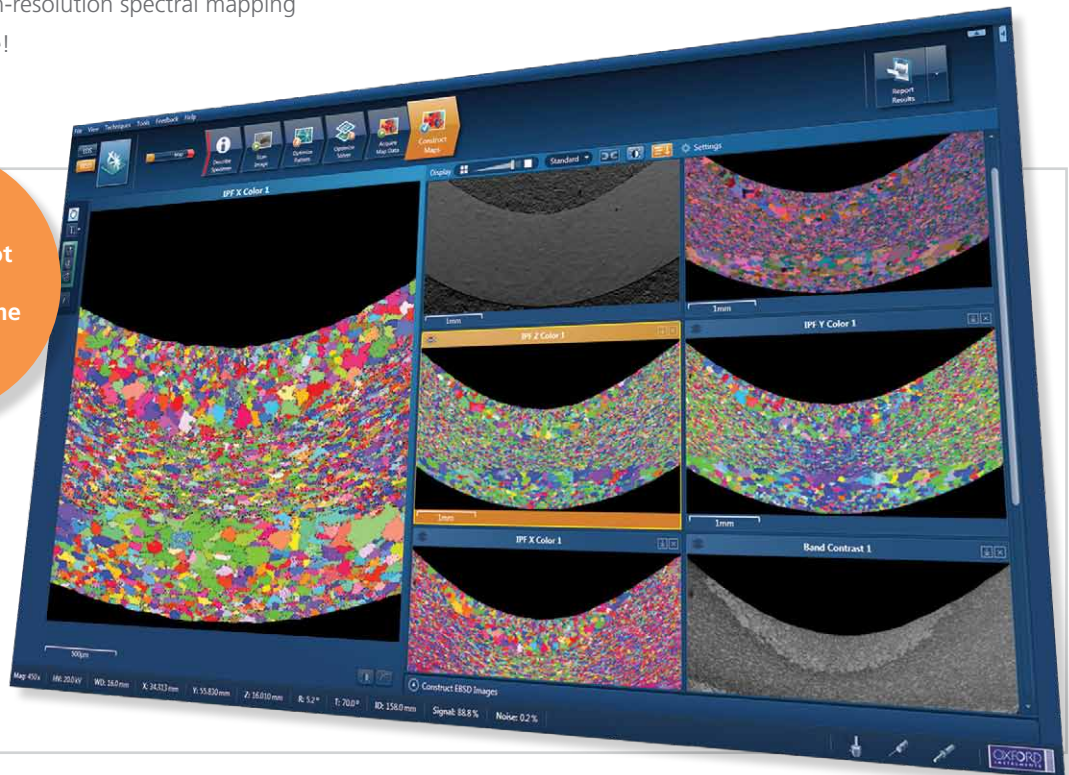
- TruMap™ provides real-time X-ray mapping that shows true element variation
- AutoLayer™ visualisation algorithms help you detect the phases in your sample
- AutoLock™ provides a unique blend of predictive and reactive microscope drift correction for the sharpest imaging
- AutoCal™ seamlessly corrects EBSD data for working distance and detector positions - no need to recalibrate
- SmartMap™ 4k high-resolution spectral mapping – see the BIG picture!

The fastest results

AZtec is truly multi-tasking: do more, do it smarter, and do it all in real-time...

- Exploits multi-threaded processing to take advantage of the latest multi-core computers
- What used to take minutes now takes seconds
- Unleashes the potential of the latest generation of large area SDDs and fast EBSD detectors
- Simultaneous EBSD and EDS acquisition
- Revolutionise productivity: faster set-up, faster sample throughput, faster reporting

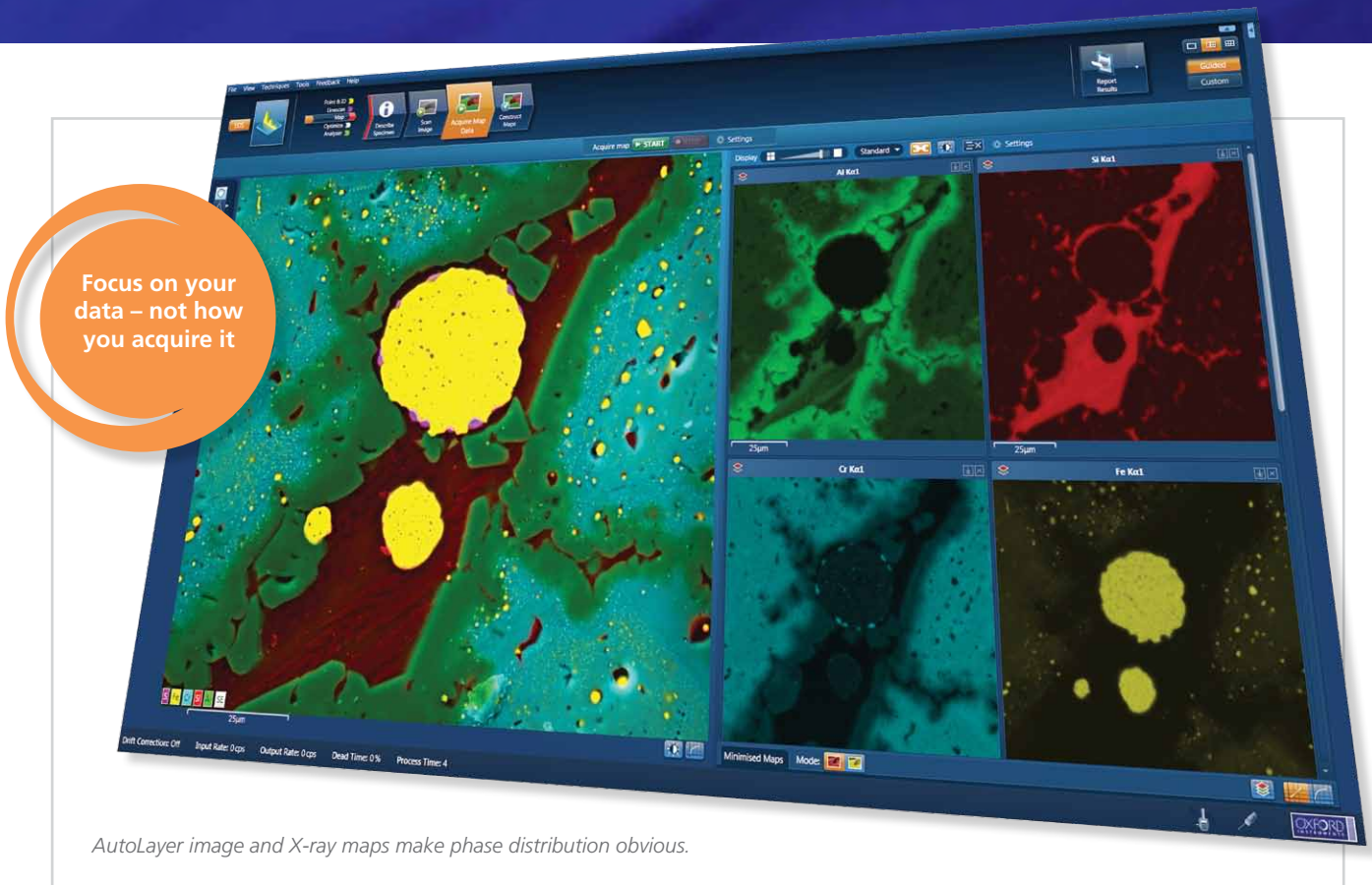
AZtec is not just fast – it's real-time



High resolution, fast EBSD mapping.

E FLEXIBLE

...for every user



AutoLayer image and X-ray maps make phase distribution obvious.

The most flexible

Work the way you want...

- The 'Guided Mode' is ideal for those preferring a 'step-by-step' approach to analysis - they'll see what is happening and what to do next
- Want to work in a more flexible way? Flip into 'Custom Mode' at any time and have all the freedom you need
- Choice of screen colour palettes specifically designed for brightly lit areas, darkened rooms, or personal preference
- Customised, interactive reporting

The most structured

Work to your standard operating procedures...

- On-screen 'step notes' help infrequent users follow **AZtec** procedures to achieve the right results time after time
- Eliminate the paper trail – create custom on-screen Standard Operating Procedures that dynamically describe each stage of your procedures
- Personalised profiles adapt **AZtec** to each user and each task in seconds
- Report against your corporate template

SYNERGY

AZtec

The most powerful, most flexible materials characterisation system you'll ever see

See everything in stunning high-resolution detail and, if you want, over more than one display. You can even monitor progress remotely from your iPad.



The most integrated

AZtec combines the latest generation of detector hardware, multi-tasking software, and decades of microanalysis know-how to create the ultimate system for materials characterisation...

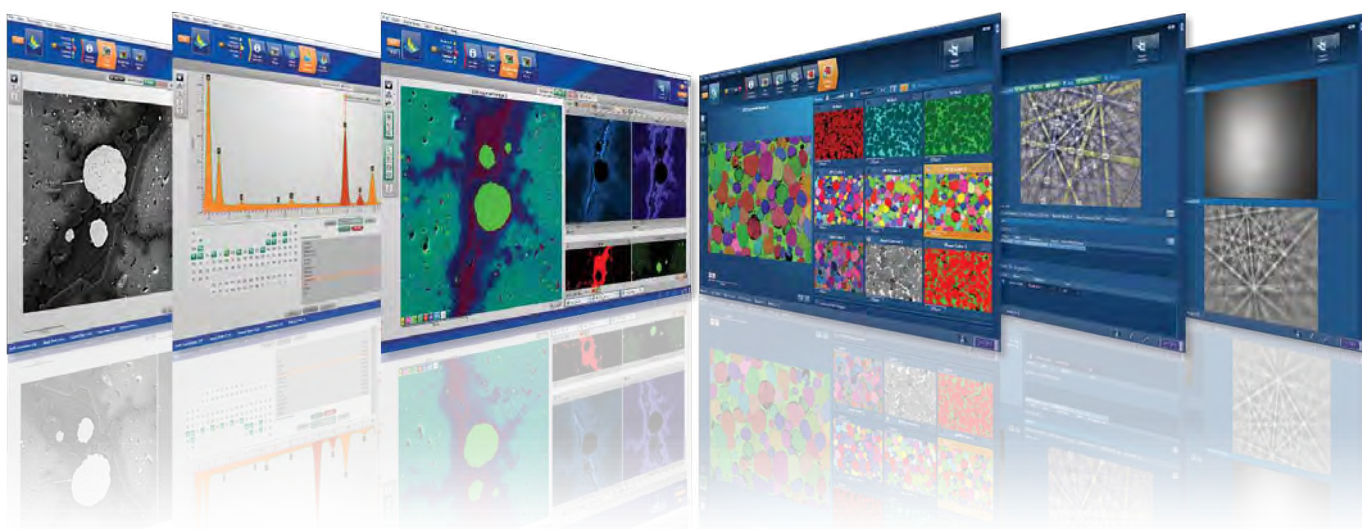
- One interface for all microanalysis techniques
- Combines the data from EBSD and EDS detectors in real-time
- Collects full EDS spectral maps simultaneously with EBSD so re-analysis and re-interpretation is easy
- Integrated with industry-standard materials databases
- No compromise in speed or functionality

Everything
you've used before
will suddenly
seem obsolete



AZtec

The most powerful, most flexible materials characterisation system you'll ever see



AZtec is the new and revolutionary materials characterisation system from Oxford Instruments. You'll gather more accurate data, gain more insights, see everything in stunning high resolution, and get the job finished faster than ever.

Building on nearly 40 years experience and the feedback from the world's largest microanalysis user community, **AZtec** is everything you'd expect of an Oxford Instruments system.

Only better.

Service[®]

Whether your requirements are hardware, software, or application oriented, our worldwide network of specialists will be there to support you.

Please visit www.oxford-instruments.com/AZtec or e-mail AZtec@oxinst.com

The materials presented here are summary in nature, subject to change, and intended for general information only. Performances are configuration dependent, and are based on AZtec Release 1.1. Additional details are available. Oxford Instruments NanoAnalysis Quality Management System is certified to meet ISO 9001: 2008. AZtec is a Registered Trademark of Oxford Instruments plc, all other trademarks acknowledged. © Oxford Instruments plc, 2011. All rights reserved. Document reference: OIA/AZtec/Gen1.1/0411.



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