



Life Science

Product Guide

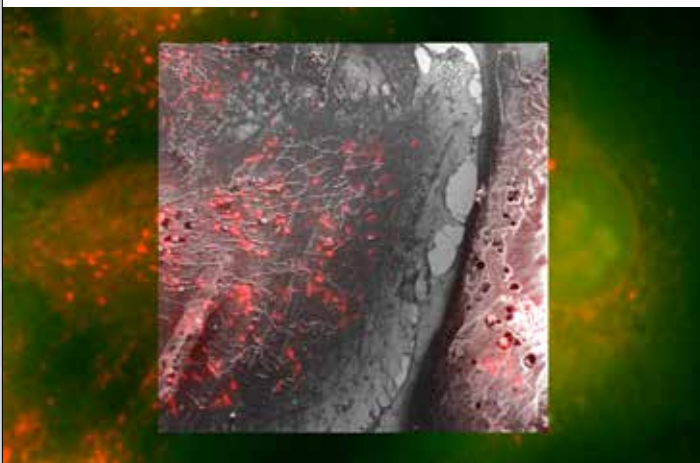
www.axt.com.au

Solutions for Science and Industry

AXT is proud to provide unique solutions for the Life Science market through our partnerships with world-leading suppliers. From homogenisers to micromanipulators, through to high end imaging and fully automated systems for crystallography, liquid handling and sample storage, we have the expertise to deliver the right solution for your requirements.

delmic

Fluorescence



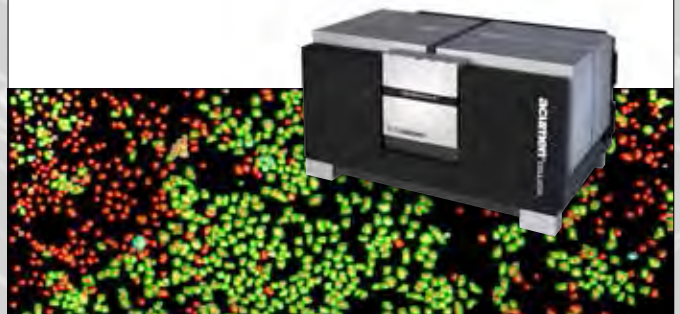
Delmic SECOM - SEM and Fluorescence Microscope

Real Time Correlative Microscopy

- Correlative light and electron microscopy directly combines functional and structural data
- Unique in situ design enables simultaneous imaging, saving valuable time
- No contamination or sample degradation between techniques
- Easily retrofitted to existing microscopes
- Fully compatible with a range of other SEM detectors

ttplabtech

Cellular Imaging

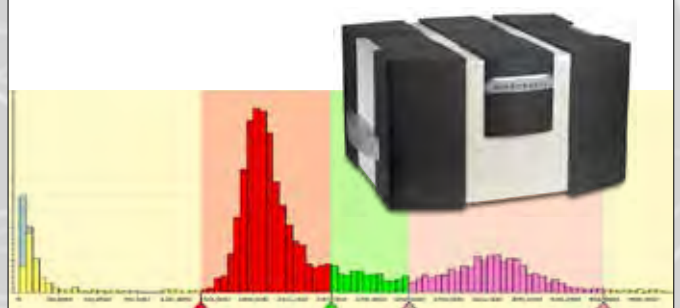


acumen[®] Cellista for High Content Imaging

- Multiparametric, high speed cell-based imaging
- Cytometric data analysis done on-the-fly
- Large depth of focus
- Whole well imaging

ttplabtech

Cytometry



mirrorball[®] for HCI and Antibody Discovery

- Simultaneous scanning with multiple lasers
- "mix and read" assays for monoclonal antibody discovery
- Cytometric analysis
- Cell- and bead-based assays

HIROX

kleindiek
nanotechnik

nano
photon

TESCAN
PERFORMANCE IN NANOSPACE

Rigaku

delmic

ttplabtech

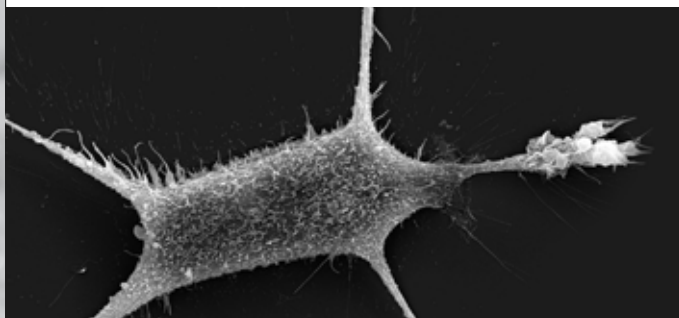
SPEX SamplePrep



SEM Products

Scanning Electron Microscopy - SEM

- Tungsten, field emission and FIB dual columns
- Ultra-high resolution structural imaging
- Variable pressure imaging
- Suitable for cryo-imaging



Manipulators

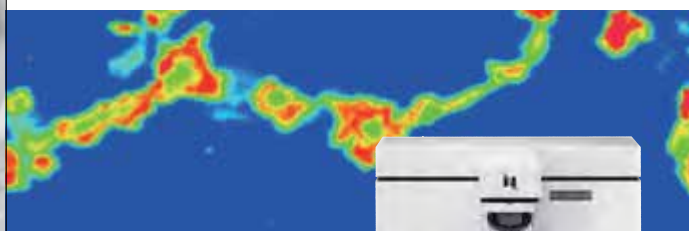


Micromanipulator for Life Science

- High precision sample micromanipulation
- Suited to obtaining highly sensitive life science recordings
- Renowned for long-term stability and precision



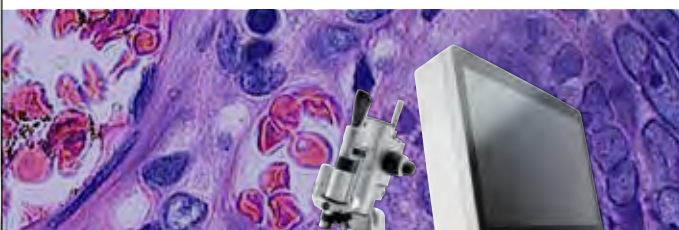
Raman Mapping



Laser Raman Microscope

- Unmatched Raman imaging
- Fast and easy data analysis
- High spatial resolution → precise component distributions

HIROX 3D Microscopy



3D Digital Zoom Microscopy

- High quality imaging using multiple angles of observation reveals small but significant details
- Full HD video output at 24fps in real time
- Rapid auto focus
- High dynamic range imaging
- One touch 3D imaging



X-Ray CT

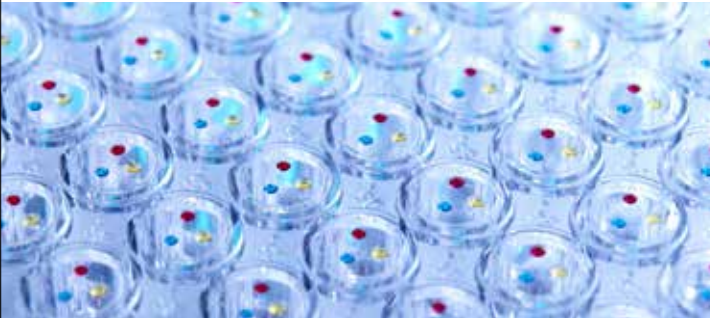


X-Ray Microscopy/microCT

- A true x-ray microscope
- Rapidly measures relatively large samples at high resolution
- High resolution CCD camera produces high quality images
- Ultra-high flux from the 1.2kW rotating anode
- Extreme contrast for biological & pharmaceutical samples

Precise, Low Volume Pipetting

- Precise and repeatable nanolitre pipetting every time
- Irrespective of liquid viscosity or environmental conditions
- Guaranteed zero cross-contamination



Numerous models available, to suit a variety of applications, including:

- Protein crystallisation vapour diffusion, additive seeding and microseeding
- Lipidic cubic phase (LCP) screening
- Screen optimisation
- Miniaturisation of assays
- Compound screening
- Hitpicking / cherrypicking
- PCR setup
- Next Generation Sequencing



dragonfly®



mosquito®

Cryogenic Grinder

SPEX SamplePrep.®

Freezer/Mill®

- High-throughput, cryogenic mill
- The latest advance in cryogenic grinding
- Accommodates samples from 0.1 – 50mL
- Suited to tough and temperature sensitive samples, DNA/RNA extraction



Automated Biobanking

ttplabtech

Secure Sample Storage

- Samples checked via tracking of 2D barcodes on storage and retrieval
- Database automatically updated
- Sample integrity maintained by accessing only the samples you require
- Space efficient design
- Samples can be remotely delivered
- Pneumatic technology means there are no internal moving parts → extremely reliable
- Expandable and able to be integrated with other modules in the laboratory workflow

comPOUND®

- Store up to 200,000 tubes
- Storage down to -20°C

arktic®

- Store up to 95,000 tubes
- Storage at -80°C



Tissue Homogeniser

SPEX SamplePrep.®

Geno/Grinder®

- High-throughput plant & tissue homogeniser
- Specifically designed grinding action for rapid cell disruption, lysis & tissue homogenisation
- Accommodates various sample formats





Biological SAXS



Biological SAXS

- Specifically designed for isotropic protein solution scattering
- Optimise for use with Rigaku rotating anode x-ray sources
- Optional automated sample handling & generation of results



X-Ray Diffraction



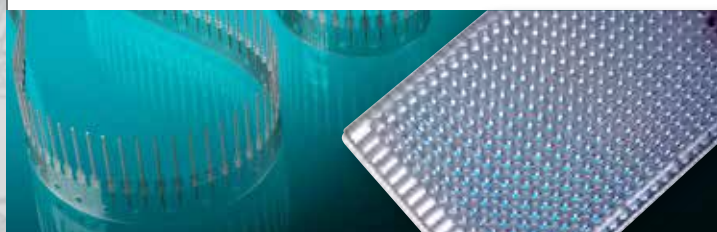
X-ray Diffraction (generators, optics, detectors)

- Produce x-ray beams optimised for all macromolecular crystals
- Optics optimised for crystal type and size
- Selection of x-ray detectors for fast and efficient diffraction studies

Reagents & Consumables

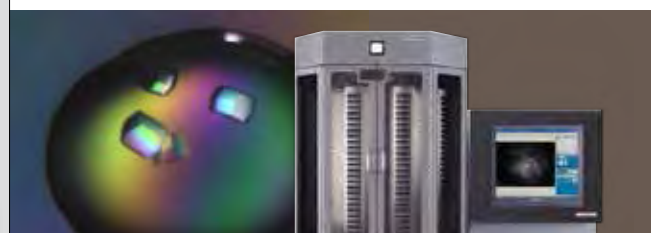


- Expert range of reagents for screen optimisation, including the Emerald Bioscience range of WIZARD™ screens
- CombiClover plates: sitting drop, with four satellite drop chambers
- UV+ plates: low profile, with excellent UV and visible imaging characteristics
- CrystalMation™ Intelli-Plates: low profile, visible imaging
- Compact 300 plates: sitting drop, vapour diffusion



- Mosquito disposable tips for precision nanolitre pipetting
- Viewdrop™ seals & microplates for hanging drop experiments
- iQ plates for sitting drop experiments
- Now supplying Swissci plates including MRC 96-well oil UVP sitting drop plates

Crystallisation Automation



Crystallisation Automation

- Production of protein crystals
- Automated sample mounting and retrieval
- Compact desktop solutions through to high throughput automated environmentally controlled solutions
- Produces the highest quality images on the market
- Colour module system utilising ultra-high resolution 5.0MP monochrome camera and custom designed optics for superior resolution down to 2µm actual detection
- CrystalTrak software is fully flexible, upgradeable and web-accessible

