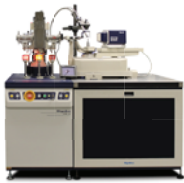




Beamline Components

FR-X

- Highest intensity home laboratory x-ray source
- Highest flux microfocus x-ray generator
- Direct drive rotating anode = low maintenance cost
- Smallest focal spot size of any rotating anode x-ray generator
- Small beam = greater flux density & less background for small samples
- Flux density up to 57×10^{10} x-rays/mm²/sec



MicroMax-007 HF

- Smallest focal spot size available on a rotating anode generator (70µm)
- 1.2 kW power in a small beam provides greater flux density & less background for small samples
- Unique pre-aligned & pre-crystallised filament cartridges minimise maintenance
- Anode head can be positioned for optimal experimental configuration

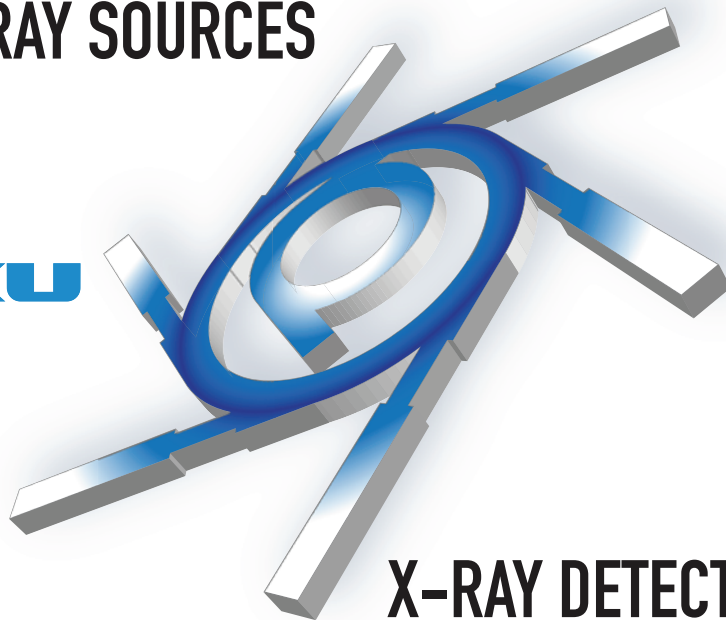


MicroMax-003

- Small beam size (< 100 µm at the crystal) = superior signal to noise
- 3 year warranty reduces cost of ownership
- Integrated optics optimised for the detector type (PILATUS or IP)
- Integrated Confocal MaxFlux double bounce optic provides up to 70X better Cu Kβ suppression than single bounce optics
- Low noise/divergence, high intensity beam



X-RAY SOURCES



X-RAY DETECTORS

Pilatus

- Direct detection
- Excellent Point Spread Function & signal-to-noise ratio via single photon counting
- Adjustable threshold = fluorescence suppression
- High dynamic range: 1,048,576 photons / pixel
- High counting rates: up to 2×10^6 photons / second / pixel
- Short readout time: 7 ms



HyPix 3000

- Next generation 2D Hybrid Pixel Array Detectors
- Measures samples in 2D, 1D, 0D modes
- Large active area (3000mm²) with small pixel size (100µm²)
- High spatial resolution & high count rate
- Seamless switching from 2D time delay to 2D snapshot mode
- XRF suppression by high & low energy discrimination



Mercury 3

- High sensitivity versatile CCD camera
- Wide range of applications
- Phosphor scintillator optimisable for various energies
- Very low dark current & noise background
- USB connectivity and small size = easy integration



For more information, please visit www.axt.com.au

"Contact AXT for a Quote" Tel: 02 9450 1359 or Email: info@axt.com.au



Complete In-House Crystal Screening Solution, Data Collection and Structure Determination



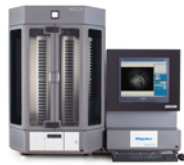
Minstrel HT / HT UV

- High throughput protein crystal imaging
- Automated, high resolution UV & Visible Imaging
- Easily link images back to crystallisation conditions
- Patented LED asymmetric lighting technology



Minstrel DT / DT UV

- Class-leading, patented LED light source
- SBS and Linbro plates
- Detects crystals down to 2µm at the highest optical resolution
- Exactly aligned visible and UV images



Gallery DT

- Automated storage, retrieval, imaging and analysis
- Desktop plate hotel
- Multiple plate formats, up to 222 plates
- Robotic transfer with minimal vibration



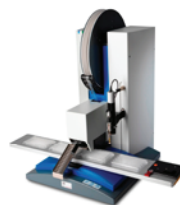
Gallery HT

- Automated plate incubator with imaging integration
- Reliable temperature control: 4°C to 30°C
- Accepts multiple plate formats, up to 690 plates per hotel, 2 hotels per Minstrel HT Imager



mosquito® Crystal & mosquito LCP®

- Sitting drop, hanging drop, microbatch, seeding, microseeding, LCP experiments
- Accurately dispense all protein and solvents, regardless of viscosity
- 25nL – 1.2µL pipetting range with unrivalled reproducibility
- Positive displacement technology reduces cross-contamination & eliminates slow wash steps
- Robust and reliable, even in multi-user labs, low maintenance
- Simple and intuitive software



arktic®

- Store up to 95,000 tubes at -80°C or -20°C
- 2D bar coding for sample tracking
- Low footprint, high capacity design
- Like the comPOUND, arktic uses a simple file input, generated by the user or a LIMS
- Scalable, modular design



comPOUND®

- Store up to 200,000 tubes
- Store at -20°C
- 2D bar coding for sample tracking
- Only retrieve the tubes you need, ensuring integrity of other samples
- High-speed cherrypicking and delivery
- Remotely accessible
- Scalable, modular design



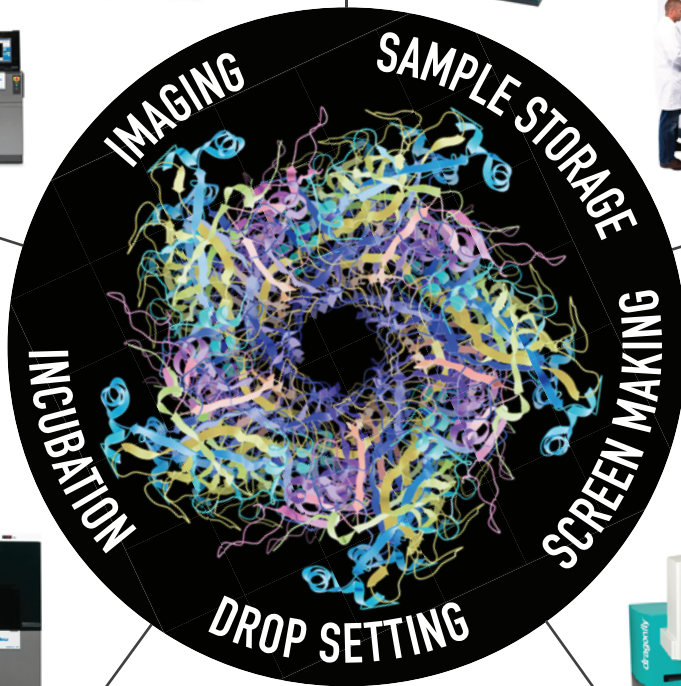
Alchemist

- Non-contact dispensing
- Positive displacement
- "Tapper" technology for enhanced accuracy
- BirdFeeders for self-contained chemical delivery = zero cross-contamination



dragonfly®

- Accurate, regardless of viscosity
- Non-contact, positive displacement dispensing
- Zero cross-contamination
- Low dead volumes
- No blocking or clogging
- Easy-to-use screen designer software



For more information, please visit www.axt.com.au

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