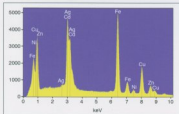
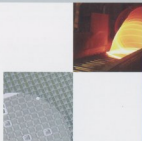


A new approach to X-ray detection from Thermo Electron Corporation: the UltraDry silicon drift X-ray detector. The UltraDry detector combined with Thermo's NORAN System SIX X-ray microanalysis system, give users high-resolution high-throughput data collection with no-LN convenience.

UltraDry

Silicon drift X-ray detector

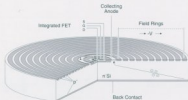


The UltraDry silicon drift detector from Thermo Electron Corporation brings new benefits to X-ray microanalysis by providing X-ray detection performance comparable to current EDS detectors, but in a much shorter collection time. Combined with Thermo's NORAN System SIX X-ray microanalysis system, the UltraDry detector gives users high-resolution, high-throughput data collection with no-LN convenience.

Compared to Si(Li) detectors, the silicon drift detector has extremely low capacitance. This feature permits operating the pulse processing electronics with short integration times, without sacrificing energy resolution. Short processing time with the silicon drift detector results in more high-resolution data stored per second of acquisition.

The UltraDry employs modern silicon drift detector technology to achieve high count rate performance. An integrated detector crystal, FET and thermoelectric cooling system create a highly efficient system that allows the collection of data at extremely high count rates with little sacrifice in energy resolution. While the silicon drift detector is capable of operating at room temperatures, thermoelectric cooling provides resolutions comparable to LN-cooled Si(Li) detectors.

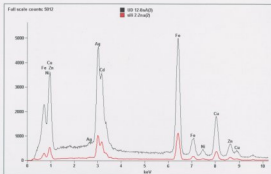
The UltraDry also provides "instant on" operation. While other detectors require hours of cool-down time, the UltraDry can be powered up and fully running in minutes.



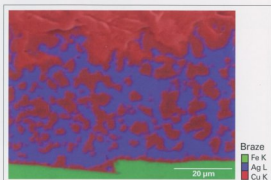
Cross section of Silicon Drift Detector

Specifications

- Maintains energy resolution at high input rates
- Light element sensitivity down to boron
- Integrated FET (reduces noise)
- Thermoelectric (Peltier) cooling (no auxiliary cooling connections, water or fans)
- FWHM <140 eV at 5.9 keV (Mn-K α)
- Input count rates >100,000 counts per second
- Active area 10 mm²



UltraDry acquisition (black) at 60,000 cps compared to S4(L) acquisition (red) at 11,000 counts per seconds. Note similar spectral resolution (peak width).



Spectral imaging acquisition from an UltraDry at 60,000 cps overlaid on the electron image

For detail please visit <http://www.eastco-hk.com>

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