



# QUANTAX EDS

- Slim-line Technology for SEM and TEM

The new generation of QUANTAX EDS once more sets the standards in X-ray spectrometry. The XFlash® 6 detector series, combined with the modular ESPRIT software, delivers the fastest and most reliable results in nano-research.



## Best energy resolution for light element and low energy analysis

- 121 eV limited edition
- 123 eV ultimate
- 126 eV premium
- 129 eV standard
- All resolutions specified exceeding ISO 15632:2012 requirements



## Wide range of detector sizes

- 10, 30, 60 and 100 mm<sup>2</sup> active area detectors offer ideal solutions for micro- and nano-analysis

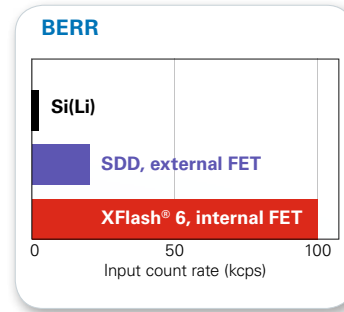


## Slim-line detector technology for even more counts and lower beam currents

- Shortest detector to sample distances for maximum solid angle in SEM, FIB-SEM, EPMA and TEM
- Best available take-off angle for TEM



The XFlash® 6 detector series for SEM and TEM



Best energy resolution ranges of different detector designs, showing clear advantages for the XFlash® 6

### Detector configurations

Available detectors for SEM and related:

- XFlash® 6 | 10
- XFlash® 6 | 30
- XFlash® 6 | 60
- XFlash® 6 | 100

Available detectors for TEM:

- XFlash® 6T | 30
- XFlash® 6T | 60



### Ultra high throughput for fastest measurements

- New signal processing unit with hybrid technology
- Over 1,500 kcps input count rate
- Over 600 kcps output count rate



### Real-time spectrometry

- Instant spectrum visibility
- Live quantification



### Hybrid quantification

- Unique combination of standardless and standard-based quantification
- Customizable for most accurate quantification



### Automation of routines

- Automate virtually any measurement and analysis
- Optimization of instrument usage
- Unattended operation during the day, at night or over the weekend



### Compact design and low weight

- High precision slider with fully integrated motor for precise positioning
- Improved heat sink geometry for stable measurement conditions
- Maximum detector weight of 3.75 kg



### Light element / low energy analysis

- Most comprehensive database containing K, L, M and N element lines for accurate identification
- TQuant – optimized standardless low energy range quantification



### HyperMap

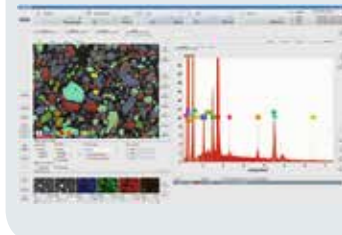
- The database contains a spectrum for each pixel
- Enables on- and offline processing
- Live background removal and deconvolution

### ESPRIT

Analytical software suite providing options for

- Reliable spectrometry
- Super fast mapping
- High resolution imaging
- Combined EDS/EBSD
- Easy automation
- Versatile reporting

... and more.



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