

Energy Dispersive X-ray Spectrometer QUANTAX 200 with XFlash[®]6

QUANTAX 200 is a modular EDS system for qualitative and quantitative microanalysis in industry, research and education. The system's standard-less quantification software enables manual, automatic or interactive spectra evaluation and provides reliable results for specimens with polished or irregular surfaces, thin layers and particles. An outstanding advantage of the system is the incorporated sixth generation XFlash[®] detector - a Silicon Drift Detector which needs no LN₂ cooling, provides extremely high throughput rates and improved light element detection capabilities. QUANTAX 200 features a powerful scanning system as well as line scan with PTS functionality and mapping for brilliant element images. A flexible project management package and various options for quick report generation round off the QUANTAX 200 system. The system can be upgraded to a QUANTAX 400 or QUANTAX 800 and is ready for integration of QUANTAX CrystAlign EBSD, QUANTAX WDS and QUANTAX Micro-XRF.

LN₂-free high-resolution, high-speed SDD Detector

1. **Q655-30-129** Light element - XFlash[®] Detector 6|30
 - Energy resolution \leq 129 eV at Mn-K α
 - Up to ten times faster than conventional Si(Li) detectors
 - Maximum input count rate > 1000 kcps
 - 30 mm² active area
 - Slew window, detection from Boron (5) to Americium (95)
 - Vibration-free, maintenance-free, Peltier cooled
 - Motorized retraction system

2. **Q407** VZ adapter, manual adjustment of detector working distance

QUANTAX Base System

3. **Q623** QUANTAX-Signal Processing Unit SVE 6, for high output count rates
 - Hybrid pulse processor for extremely low dead time
 - Fully automatic software controlled calibration of hardware
4. **Q811** QUANTAX Workstation Computer incl. Windows 7 and DVD+/-RW drive
5. **222-257400** 23" Dell Monitor
6. **Q801** QUANTAX IO-Scan System and Mega Link Interface Adapter for real time spectroscopy
7. **Q101** ESPRIT Spectrum, software for spectra acquisition and qualitative analysis, with real-time mode and most comprehensive atomic database worldwide

Quantification Software

8. **Q111** ESPRIT Quant, automatic software tools for standard-less quantitative spectra analysis
9. **Q113** ESPRIT EQuant, extended spectra analysis options for expert users
10. **Q114** ESPRIT UQuant, editor for user defined spectra evaluation methods
11. **Q116** ESPRIT HSQuant, combination of standard based and standard-less quantification

Imaging Software¹

12. **Q201** ESPRIT Scan, image acquisition software from two selectable signal sources, e.g. SE, BSE and driver for external scan system (4096 x 4096 pixels)
13. **Q202** ESPRIT Vision, digital image processing

¹ Suitable interface at Electron Microscope required.



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Line Scan and Mapping

- 14. **Q205** ESPRIT MultiPoint, automatic multipoint and object analysis
- 15. **Q203** ESPRIT Line, ultra-fast spectral line scan with spectra data base (PTS functionality)
- 16. **Q204** ESPRIT Map, ultra-fast digital element mapping with unlimited number of elements (regions)
- 17. **Q209** ESPRIT DriftCorr, correction of beam drift
- 18. **Q210** ESPRIT HyperMap, element mapping with hyper spectral database
- 19. **Q211** ESPRIT AutoPhase, automatic phase analysis
- 20. **Q212** ESPRIT TChart, histograms, binary and ternary charts
- 21. **Q213** ESPRIT MaxSpec, maximum pixel spectrum for locating rare elements²
- 22. **Q245** ESPRIT Automated Feature, automatic particle analysis (incl. Q214,241,242,244)

System Administration and Data Transfer

- 23. **Q126** ESPRIT Project, data management and filing system
- 24. **Q121** ESPRIT Report , report generation and print formatting
- 25. **Q122** ESPRIT SEMLink³, data communication with SEM or EPMA
- 26. **Q124** ESPRIT User, multi user operation with private data areas and settings
- 27. **Q125** ESPRIT LAN, client- server application and remote access via company LAN
- 28. **Q127** Additional ESPRIT software licence for analysis without hardware

- 29. **Q120** Printed user manual in English