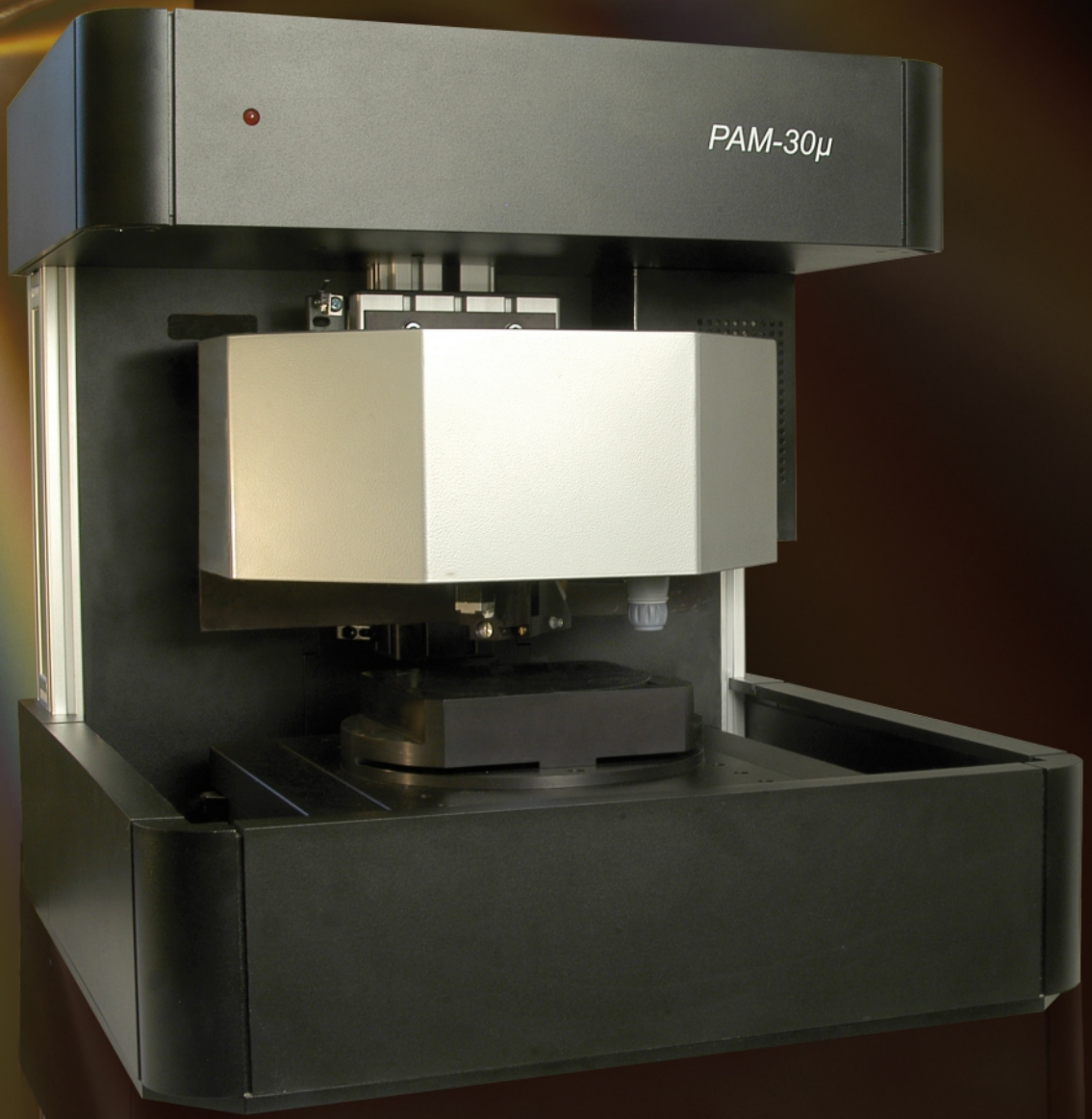
SCIENTIFIC INSTRUMENTS

RAM-30μ
X-ray analytical microscope-microprobe



$$\sqrt{\nu} = const \cdot (Z - \sigma)$$

$$\Omega_k = n^{e_k}_k / n_k$$

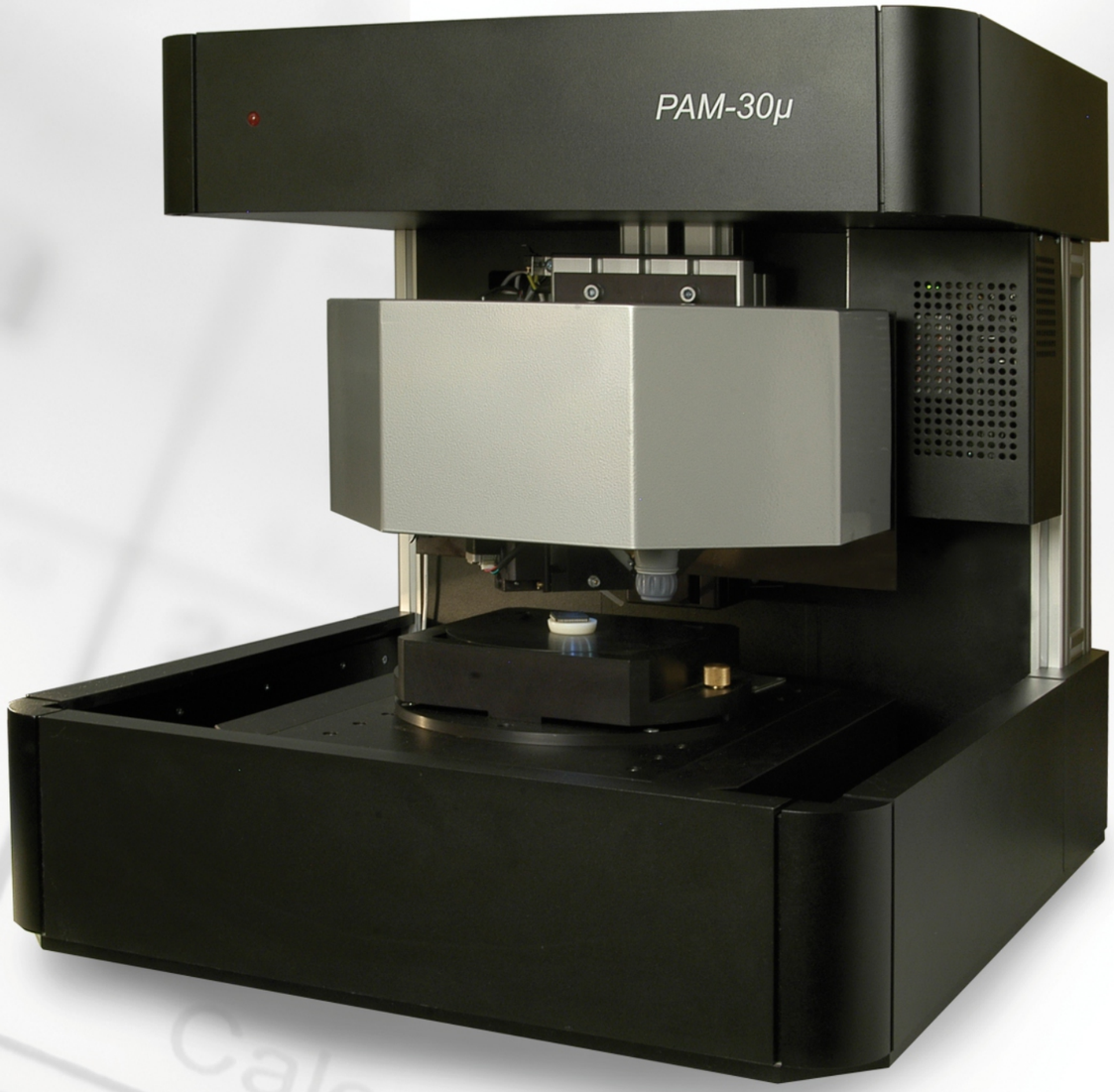
X-ray analytical microscope-microprobe

RAM - 30µ

RAM - 30µ - laboratory x-ray microscope-microprobe for studies of the objects by the methods of the optical microscopy, radiography, local element XRF microanalysis with possibility oftheelement mapping.

Features of the instrument:

- microfocalx-raytube
- polycapillary lens for making of an x-ray probe with the variable size
- set of primary radiation filters
- video camera for selection of the analysis area
- optical digital microscope for investigation of the analysis area
- optical microscope axis combined with an x-ray probe axis
- automated system for selection of the work distance
- automated X, Y-coordinate sample stage for positioning and scanning of the analysis area
- automated movement of the analytical unit along Z axis
- detector for radiographic studies
- SDD - detector for local XRF analysis
- vacuumized measuring chamber for the analysis of light elements
- built-in autonomous system for water cooling of X-ray tube



Software:

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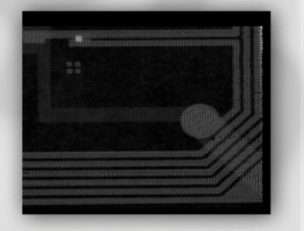
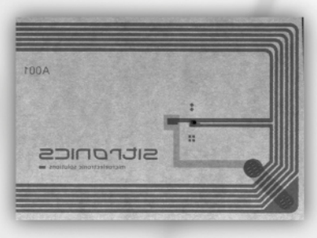
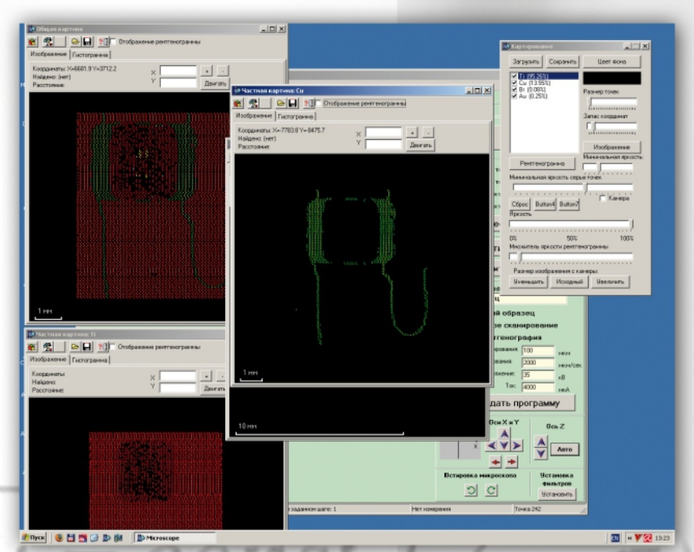
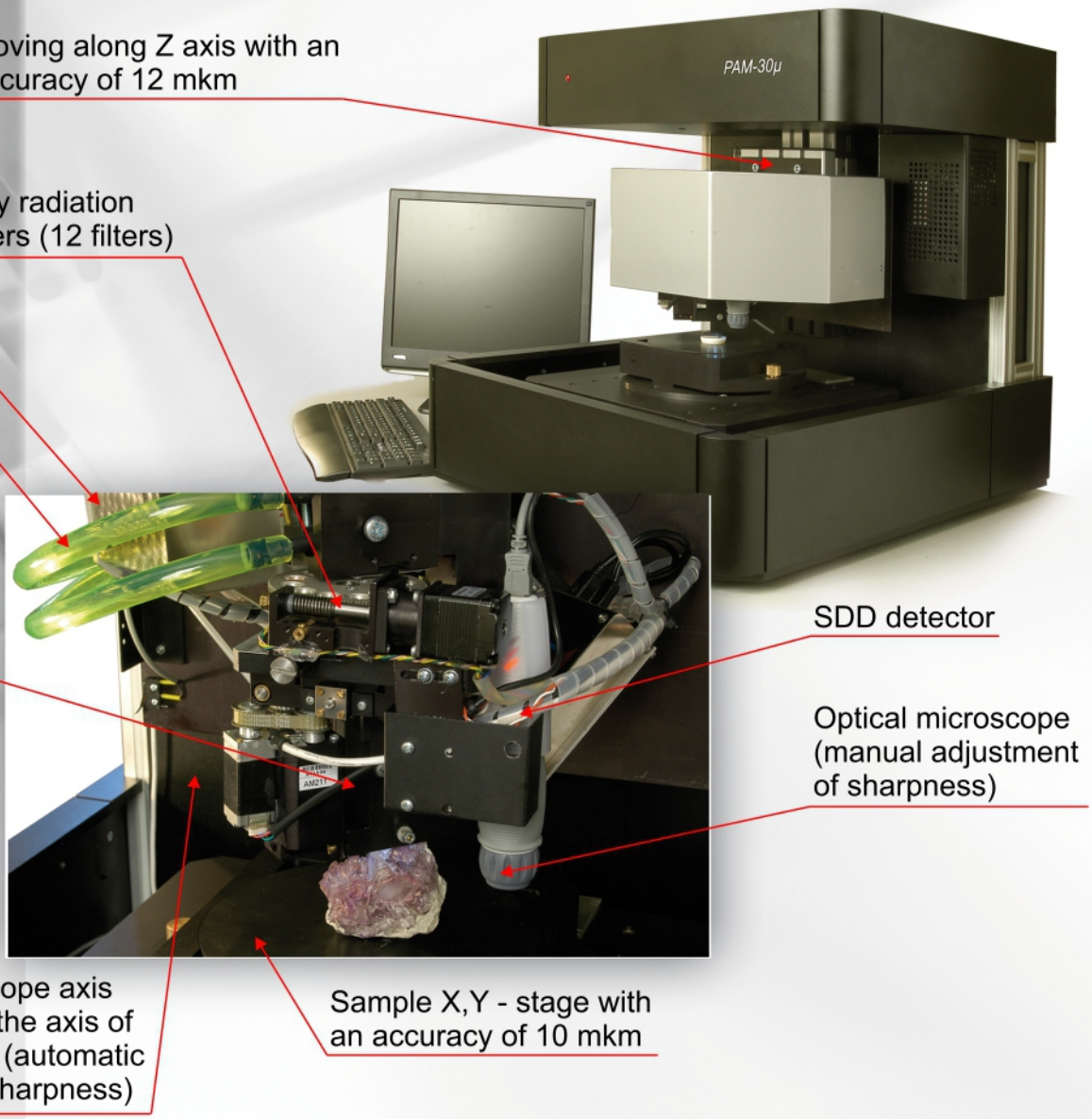






X-ray analytical microscope-microprobe “RAM-30μ”



Technical specifications

X-ray tube voltage, keV, anode material	10÷45, Mo
X-ray tube maximum power, W	500
X-ray probe diameter, mkm	30÷1000
X-ray probe positioning accuracy, mkm	10
Energy resolution of the detector on Mn Kα, eV	<150
Maximum size of the scanned area, mm	150x150
Maximum height of the sample, mm	100
Maximum weight of the sample, kg	1.0
Dimensions of the analytical unit (LxWxH)	655x615x650
Weight of the analytical unit, kg	85

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