

|                      |                                     |
|----------------------|-------------------------------------|
| <b>Element range</b> | $^{13}\text{Al}$ to $^{92}\text{U}$ |
| <b>Power supply</b>  | 110 V / 230 V 60 Hz / 50 Hz         |

### Number of layers & elements

- Free selection of any number of elements
- Free definable layer structure with multiple alloy layers

### X-Ray excitation

- 50 kV, 1.2 mA (60 W) high voltage generator
- Micro-focus W tube with Be window (Mo tube optional)

### Detector

- 25 mm<sup>2</sup> SDD detector with Peltier cooling,
- Energy resolution 140 eV (FWHM for MnK $\alpha$ )

### Primary filter (optional)

- Up to 5 exchangeable primary filters

### Collimator

- Single collimator 0.1 x 0.4 mm, 0.1 x 0.7 mm, 0.1 mm, 0.3 mm, 0.5 mm, 0.7 mm  $\varnothing$
- Programmable collimator set including 8 collimators 0.05 x 0.05 mm, 0.1 mm x 0.3 mm, 0.05 mm x 0.25 mm, 0.1 mm, 0.2 mm, 0.3 mm, 0.5 mm, 1 mm  $\varnothing$  (optional)

### Digital pulse processing

- 4096 CH digital multi-channel analyser
- Automatic signal processing including dead time correction and pulse pile up rejection

### Computer/display/OS

- Intel Pentium G2030, 2G RAM, 500G HD, equivalent or better
- 19" TFT flat screen colour monitor, minimum recommended screen resolution of 1400 x 1050 px
- Microsoft<sup>TM</sup> Windows7

### Camera optics

- Colour video system 400 x 400 px
- 20 x Magnification
- Electronic cross hair with scale and beam size indication

We reserve the right for technical changes.

Oxford Instruments plc.

industrial@oxinst.com · oxford-instruments.com



### Working environment

- 64.4°F (18°C) to 95°F (35°C) and up to 98% RH, non-condensing
- Air conditioner environment preferred

### Z Travel

- Motorized Z up to 170 mm

### Programmable XY stage (optional)

- Easy load feature with prepositioning laser
- 300 mm (W) x 300 mm (D)
- Travel range 200 mm (W) x 200 mm (D)
- Repeatability +/- 20  $\mu\text{m}$
- Max. load 3 kg

### Maximum sample size

- 500 mm (W) x 450 mm (D) x 170 mm (H)

### External dimensions

- 626 mm (W) x 625 mm (D) x 756 mm (H)
- Weight: 75 kg



*The Business of Science®*