

X-Supreme8000 Specification

Element range	Sodium (11) to Uranium (92).
Mode of Analysis	Energy Dispersive X-ray fluorescence analysis (EDXRF). Simultaneous analysis (with live update of results), or Sequential operation with live updates after the first measurement condition.
Number of elements	1-80 elements (qualitative). 1-50 elements (quantitative or semi-quantitative) using empirical calibrations or optional Standardless (Fundamental Parameter) analysis.
Concentration range	ppm to 100% m/m
Sample form	Solids, liquids, powders, pastes, granules, films, filter papers, etc.
Sample size	Unique Oxford Instruments' sample holders for liquids/ powders/ pellets/ films/ paper and glass beads analysis. Liquids and powders 13 ml, solid disk 28-40 mm (1.1-1.5") diameter when using Oxford Instruments sample holders. Maximum sample height 60mm (2.3"). Note: i) 47mm (1.9") diameter filter papers uses optional sample holder P/No 54-Q65 ii) 51.5mm (2") steel ring for cement/minerals application uses optional sample tray P/No 54-ZX18
Sample tray	Standard automated 10 position sample tray, with ability to fit secondary safety windows in each location for liquid analysis, includes two test samples located underneath tray.
Sample chamber	Air with optional helium and sample rotation specified by application.
X-ray excitation	Oxford Instruments' X-ray tube 4-30kV (3 Watts max), W, Ti, or Pd, application optimised. Programmable excitation conditions with primary beam filtration from 4kV and 5µA, includes Oxford Instruments' pre-programmed "instrument fixed conditions".
X-ray detection	Oxford Instruments' high resolution Silicon Drift Detector (SDD), typical resolution 145eV at Mn K alpha X-ray energy, or gas sealed proportional counter specified by application.
Data processing	Spectrum processor with multi-channel analyser.

Oxford Instruments Industrial Analysis

www.oxford-instruments.com
industrial@oxinst.com

User interface/PC

Full colour adjustable 12" TFT SVGA LCD with optional touch screen display. Embedded PC with Intel Celeron M 1300 MHz processor, 40 GB hard-drive, Windows™ XP for Embedded Systems operating system, with 3xUSB ports and Ethernet port. Automatic database backup.

Note: Due to rapid changes in technology, specification may change but will be equivalent or better.

Software

Resident Analytical Software Package includes: facility for simple routine operation, restandardisation, qualitative, and full quantitative analysis, comprehensive X-ray correction models, ability to store results, monitor QC check sample, display spectrum scans, download calibrations, export data, and simple data back-up routine.

Operating Environment

Operating temperature from 10 °C to 35 °C, storage temperature -30 °C to 50 °C, operating humidity 15-80% non condensing. Maximum altitude for operation 2000m (6560ft).

Power requirements

85-264 V; 47-63 Hz; 400 VA.

Weight/Dimensions

Weight (unpacked): 43kg (95lb), Width: 832mm (33"), Depth: 603 mm (24") Height: 600mm (24") at maximum height of lid and monitor.

Note: In the interests of continued improvement, Oxford Instruments reserves the right to change any part of the description and specification without notice.

UK

Halifax Road, High Wycombe
Bucks, HP12 3SE England
Tel: +44 (0) 1494 442255
Fax: +44 (0) 1494 524129
Email: analytical@oxinst.com

China

Beijing
Tel: +86 10 6518 8160/1/2
Fax: +86 10 6518 8155
Email: info@oichina.cn

Finland

Espoo
Tel: +358 9 329 411
Fax: +358 9 3294 1300
Email: FI-Espoo_Info@oxinst.com

Germany

Uedem
Tel: +49 (0) 2825 93 83 -0
Fax: +49 (0) 2825 93 83 -100
Email: DE-Uedem_Info@oxinst.com

Japan

Tokyo
Tel: +81 (0) 3 5245 3251
Fax: +81 (0) 3 5245 4472
Email: oikkma@oxinst.co.jp

Latin America

Clearwater FL
Tel: +1 727 538 7702
Fax +1 727 538 4205
Email: oxford@gate.net

Singapore

Tel: +65 6337 6848
Fax: +65 6337 6286
Email: asiasales@oxinst.com

North America

Elg Grove Village
Tel: +1 847 439 4404
Fax: +1 847 499 4425
mail: sales@msys.oxinst.com

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