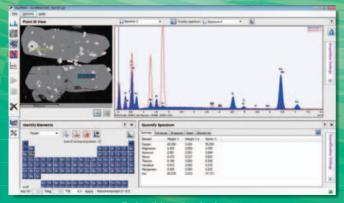


# SwiftED3000

- Light Element detection from Boron upwards.
- Linescan, Mapping and multiple Point Analysis available.
- **No LN₂ Required. Quick and Easy Analysis obtained within minutes.**
- Image and elemental data displayed on the same monitor.



Point/Line Analysis



Mapping

# Main specifications of SwiftED3000

#### Hardware

Detector	
Detector type	Silicon drift detector
Detection area	30mm <sup>2</sup>
Energy resolution	161eV (Cu-Kα) (equivalent to 137eV with Mn-Kα)
X-ray window	SATW (Super Atmosphere Thin Window)
Detection element	B <sub>5</sub> - U <sub>92</sub>
Cooling method	2-stage thermoelectric (peltier) cooling (without fan and LN <sub>2</sub> free)
Digital pulse processor	Multi channel analyzer 2,048 channel (10eV/ch)

\*Manufactured for Hitachi High-Technologies Corporation by Oxford Instruments Analytical Ltd.

#### Software

Spectrum Display	Scale expand and contract in vertical and horizontal, KLM marker display	
Qualitative analysis	Auto ID and manual peak ID	
Quantitative analysis	Standardless quantitative analysis	
Image capture	1,024 × 768, 512 × 384, 256 × 192 pixel	
Element Mapping	Resolution: Select from 128, 256, 512 pixel Max. measureable elements: 32 Mix Map: 3 elements Line Scan Spectrum Comparison: two spectra Point & ID (Beam control)	
	Selectable Points: 128 points	
	Quadrangle: Arbitrary Size Settable	
Help function	Wizard function	
Data Management	Managed by project	
Spectrum exporting	BMP, TIFF, JPEG, EMSA, Text	
Data reporting	Report template for printing Exporting to Microsoft Word	

# **■**PC Specifications

OS	Windows® 7 Professional (32bit)
CPU	Intel <sup>®</sup> Core <sup>™</sup> 2 Duo P8700 or Compatible CPU
Memory size	2GB
Monitor resolution	15.4 type, WXGA 1,280 × 800 pixels
Interface connector	USB 2.0, IEEE1394

<sup>\*</sup>An associated PC to be procured locally.

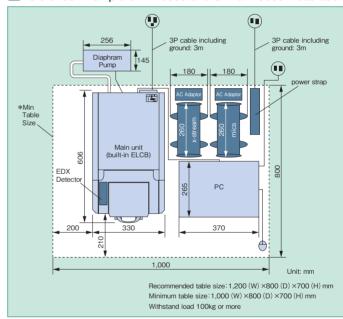
### ■ Dimensions and Weight (Width × Depth × Height, Weight)

Detector unit	145 × 150 × 200mm, 2.7kg
x-stream	180 × 260 × 330mm, 2.9kg
mics	180 × 260 × 330mm, 2.9kg
Mains distribution block	225 × 60 × 40mm, 300g
AC Adaptor for Analyzer	130 × 57 × 32mm, 400g
AC Adaptor for IEEE1394 Hub	130 × 57 × 32mm, 400g

#### Installation Condition

Room temperature	15~30°C
Humidity	45~70%RH or less
Power (TM3000)	Single-phase AC100 $\sim$ 240V ( $\pm$ 10%) 50/60Hz 500VA, 3P cable
Grounding	100 ohm or less
Power (PC)	Single-phase AC100~240V (±10%) 50/60Hz 80VA, 2P cable
Power (SwiftED3000)	Single-phase AC100 $\sim$ 240V ( $\pm$ 10%) 50/60Hz 100VA, 3P cable

## ■ Reference Example of TM3000 and SwiftED3000 Installation



<sup>\*</sup>Recommended table size: 1,200  $\times$  800mm, withstand load: 100kg or more

Notice: For proper operation, follow the instruction manual when using the instrument.

Specifications in this catalog are subject to change with or without notice, as Hitachi High-Technologies Corporation continues to develop the latest technologies and products for our customers.

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<sup>\*</sup>Intel is registered trademarks of Intel Corp. or its affiliated companies in the United States and/or other countries.

<sup>\*</sup>Specifications of a PC are subject to change.

<sup>\*</sup>Periodical maintenance is required for this apparatus

<sup>\*</sup>Limited to indoor operation