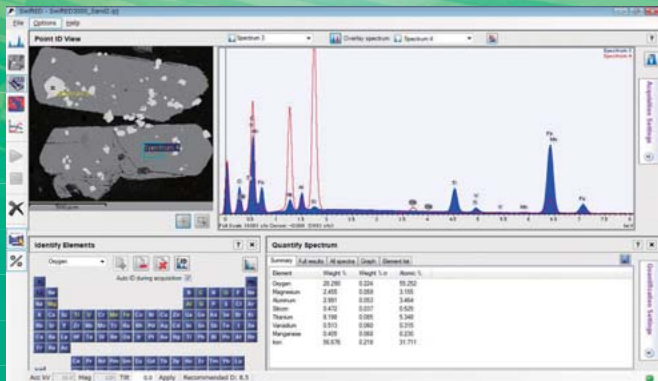




*Typical Configuration of TM3000 with SwiftED3000
*EDX detector built-in type

SwiftED3000

- Light Element capability from Boron up.
- Multiple Analysis of Point, Line and Mapping Analysis.
- No LN₂ Required. Quick and Easy Analysis available within minute.
- Display of image and elemental data on the same monitor.



Point/Line Analysis



Mapping

Main specifications of SwiftED3000

Hardware

Detector	
Detector type	Silicon drift detector
Detection area	30mm ²
Energy resolution	161eV (Cu-Kα) (equivalent to 137eV with Mn-Kα)
X-ray window	SATW (Super Atmosphere Thin Window)
Detection element	B ₅ - U ₉₂
Cooling method	2-stage thermoelectric (peltier) cooling (without fan and LN ₂ 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. measurable 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® Core™ 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

*An associated PC to be procured locally.

*Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

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

*Specifications of a PC are subject to change.

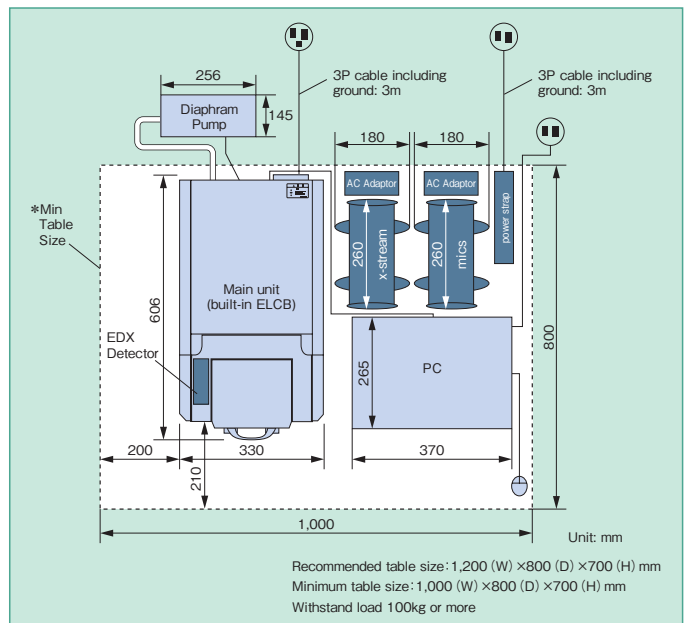
Dimensions and Weight (Width × Depth × Height, Weight)

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 AC100~240V (±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 AC100~240V (±10%) 50/60Hz 100VA, 3P cable

Reference Example of TM3000 and SwiftED3000 Installation



*Recommended table size: 1,200 × 800mm, withstand load: 100kg or more

*Periodical maintenance is required for this apparatus

*Limited to indoor operation

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.

Bringing the frontier to the forefront.

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