Hitachi High-Technologies

SwiftED-TM

Energy Dispersive X-ray Spectrometer

(dedicated for TM-1000 Tabletop Microscope)

- **No metal coating required to analyze non-conductive samples**
- **Compact size and easy to operate**
- **Display of image and analysis data on the same monitor**
- **Quick and easy analysis available within minutes**
- **No LN2 required**

Reference example of TM-1000 and SwiftED-TM Installation

HITACHI

Image on the monitor is an insert in printing.

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Main specifications of SwiftED-TM EDX system

(dedicated option for TM-1000 Tabletop Microscope)

Hardware

Detector	
Detector type	Silicon drift detector
Detection area	30mm²
Energy resolution	165eV (Cu-Kα) (equivalent to 148eV with Mn-Kα)
X-ray window	Be window
Detection element	Na_{11} – 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)

Software

Spectrum display	Scale expansion or shrink in vertical and horizontal, KLM marker display
Qualitative analysis	Auto ID and manual peak ID
Quantitative analysis	Standardless quantitative analysis
Spectrum exporting	Bitmap, Tiff, JPEG, EMSA, Text
Data reporting	Report template for printing Exporting to MicrosoftR Word

PC Specifications

OS	Windows® XP Home Edition (SP2)
CPU	Intel Celeron M340 or better
Memory size	512MB or larger
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 and Celeron are 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.

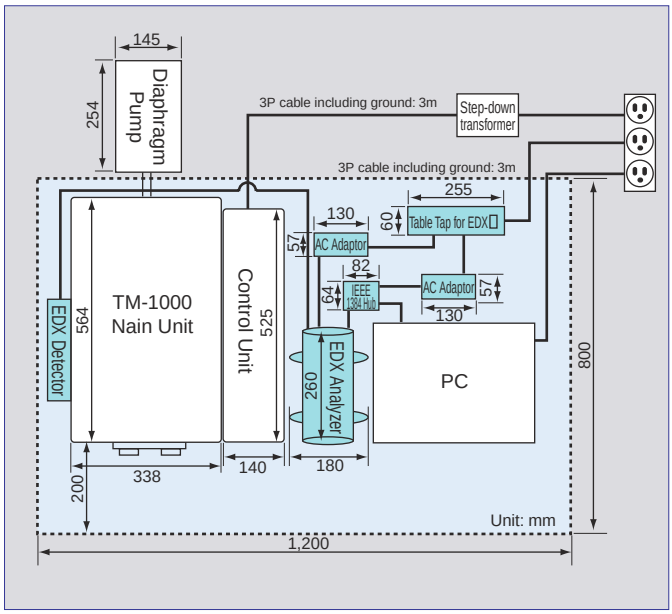
Dimensions and Weight (Width × Depth × Height, Weight)

Detector unit	149 × 234 × 136mm, 3.0kg
Analyzer unit	180 × 260 × 330mm, 3.0kg
IEEE1394 Hub	82 × 64 × 20mm, 50g
Table tap for EDX system	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	Single-phase 100VA, AC100~240V ±10%
Grounding	100 ohm or less

Reference example of TM-1000 and SwiftED-TM 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.

Hitachi High-Technologies Corporation

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