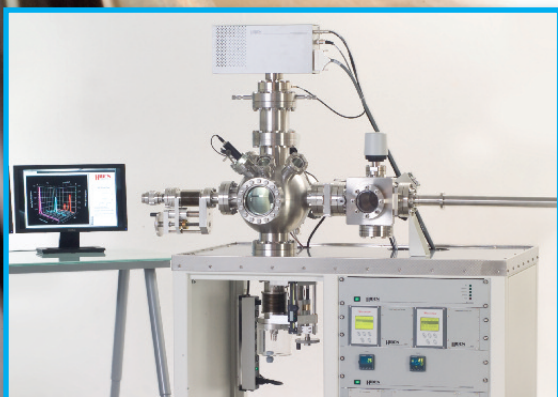


TPD

Workstation

A complete experimental system for UHV temperature programmed desorption (TPD) studies.



Features:

- 3F PIC detector - High precision triple filter analyser with digital pulse ion counting detector for ultimate sensitivity and time resolution.
- Multiport UHV chamber.
- Heated sample stage (1000 °C) with integrated PID control.
- Water cooled heater for minimum outgassing and fast cool down times.
- Linear sample transfer mechanism and loadlock, including gate valve and viewports.
 - Z-drive for optimum sample/detector positioning.
- Liquid N₂ cooled mass filter shroud giving optimum sensitivity while minimising background spectral contributions and desorption products from surfaces other than the sample.
- On-Sample thermocouple for accurate measurement of sample surface temperature.
- Bakeout Jacket (200 °C max).
- TPDsoft thermal analysis software - Automatic, multistage, control of sample temperature integrated with analyser control.
- TPD analysis routines (e.g. peak integration/deconvolution etc.) are also included in Software.

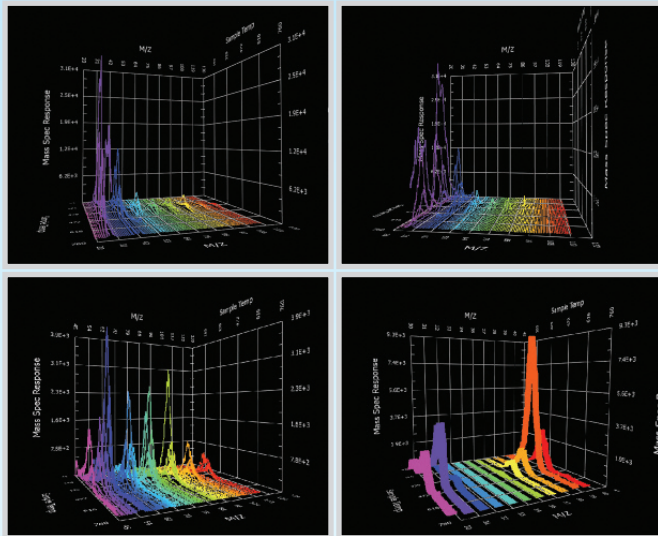
Applications:

- Thin films
- Photovoltaics
- Semiconductors
- Solid Oxide Fuel Cells

Mass Spectrometer available separately with optional PID controllers/power supplies for integration into existing vacuum systems.

Hidden Thermal Analysis Software

- Automatic control of sample temperature integrated with analyser control.
- TPD analysis routines for peak integration and deconvolution etc. included in software package.
- Real-time 3D bar view for easy viewing of mass spectral data.
- Built-in mass spectral library.



Bar data is presented in an interactive 3D view

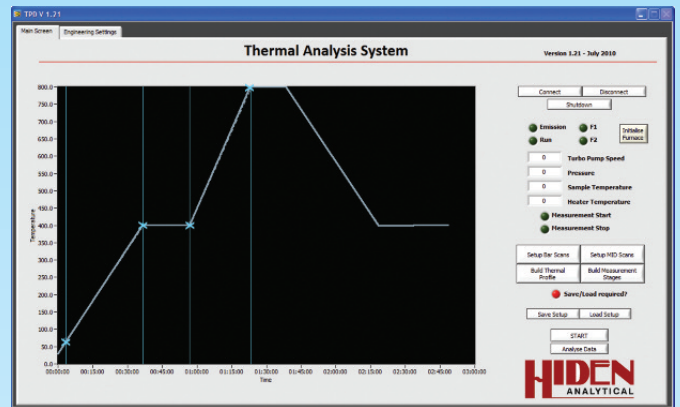
Windows 7/Vista/XP compatible with Ethernet, USB and serial connections

System dimensions:

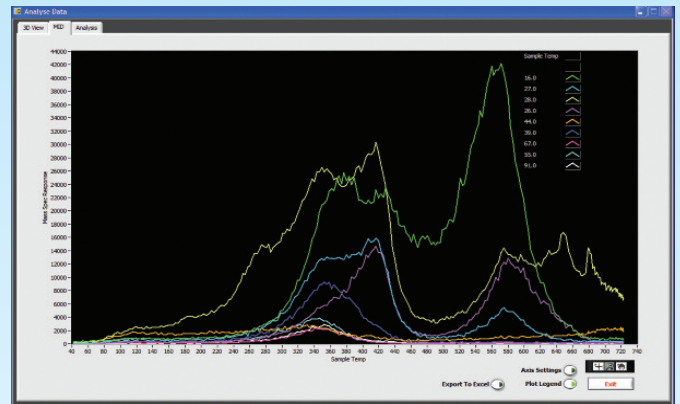
1587 mm wide x 725 mm deep x 1610 mm high

Power requirement:

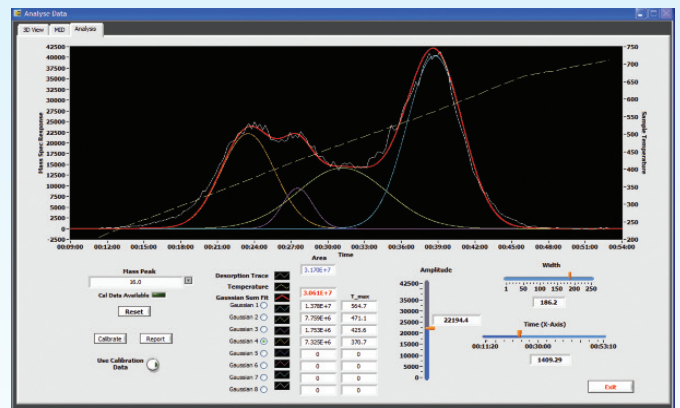
110/220/240 V, 50/60 Hz



Full experimental control including multiple temperature steps



Trends can be extracted from 3D bar view and plotted against time or temperature



Peak fitting function for deconvolution of overlapping peaks

Manufactured in England by:

HIDEN

ANALYTICAL

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It is Hiden Analytical's policy to continually improve product performance and therefore specifications are subject to change.

TECHNICAL DATA SHEET 183

