

## TPD Workstation

**ANALYSIS OF THERMAL DESORPTION PRODUCTS** BY UHV TPD/TDS

## **Applications** ▶ Thin films

- Photovoltaics
- Hydrogen in metals
- Semiconductors

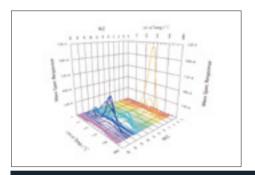
## **Key Features**

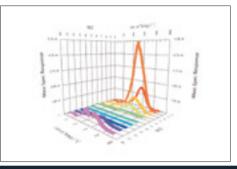
- ▶ High Precision Triple Filter Quadrupole
- ▶ Multiport UHV chamber
- Water cooled heater shroud for
- ▶ Linear sample transfer mechanism and loadlock, including gate valve and
- ▶ Z-drive for optimum sample/detector
- background species
- ▶ TPDsoft experimental control and
- ▶ Bakeout Jacket (200°C max)

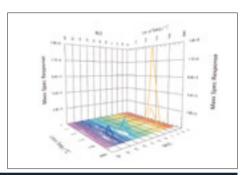
Mass spectrometer available separately with optional PID controllers/power supplies for integration into existing vacuum systems

## **Hiden TPDsoft Thermal Analysis Software**

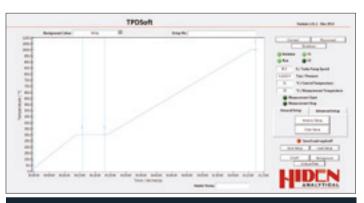
- Automatic sample temperature and analyser control
- Real-time 3D bar view for easy identification of unknown desorption products
- Display desorption data versus time or temperature
- TPD analysis routines for peak integration and deconvolution
- ▶ Built-in mass spectral library
- NIST export function for identification of desorption species



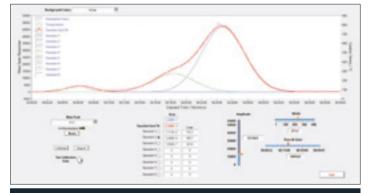




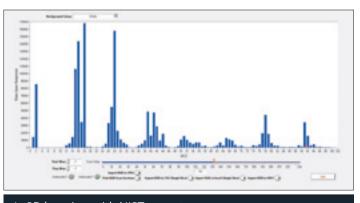
▶ Bar data is presented in an interactive 3D view



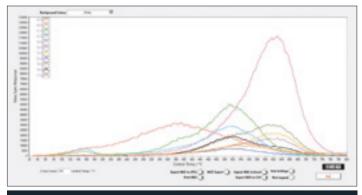
Full control of temperature parameters and MS acquisition



Peak integration and deconvolution functions



▶ 2D bar view with NIST export



▶ Plot desorption trends versus time or temperature

- ▶ Windows 7/8/10 compatible with Ethernet, USB and serial connections
- > System Dimensions: 1590 mm wide x 725 mm deep x 1610 mm high
- Power Requirements: 110/220/240 V, 50/60 Hz