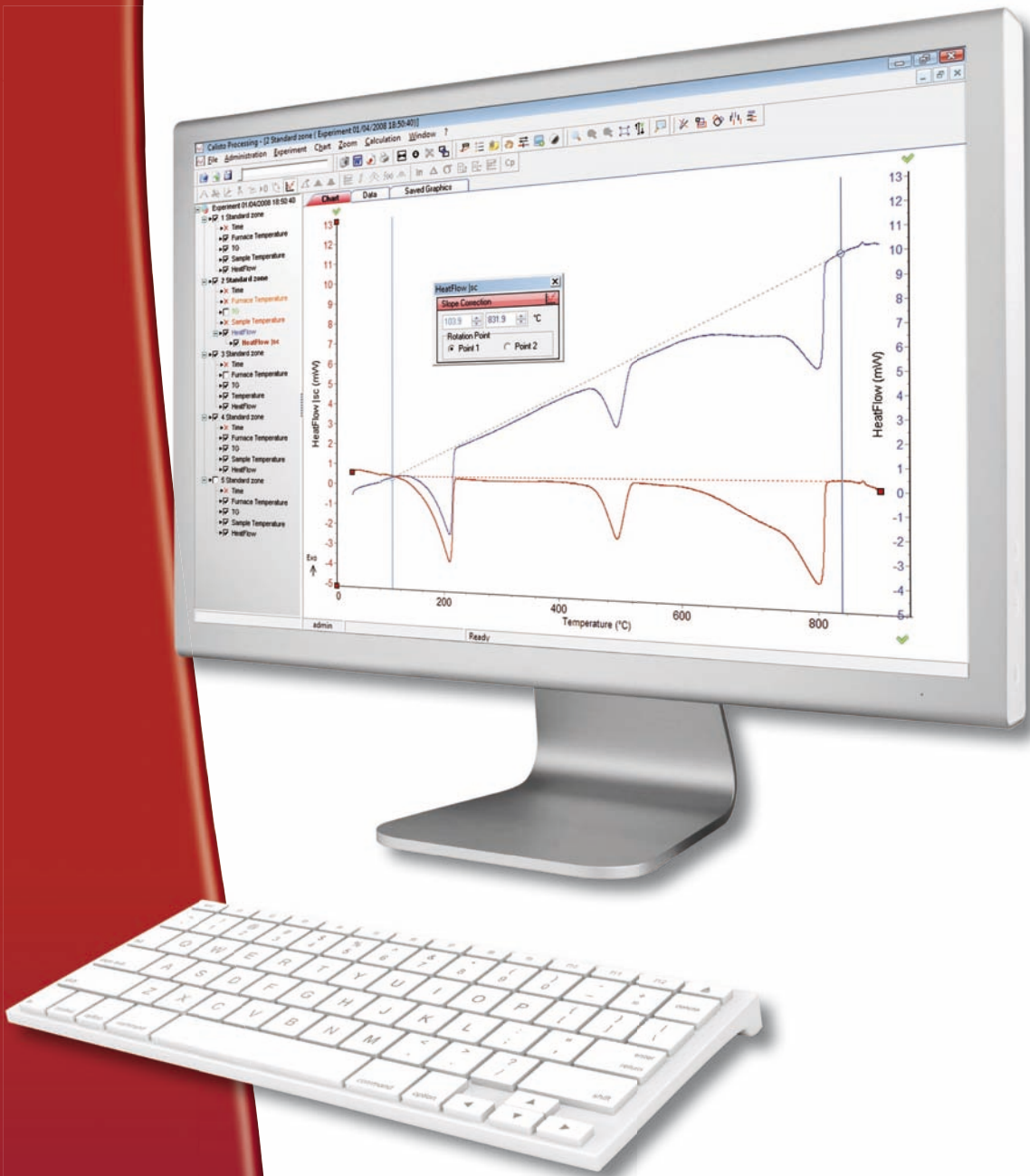


CALISTO

Thermal Analysis Software

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Data Acquisition & Processing



Inspiring Imagination for Material Science

CALISTO is a NEW software developed for Thermal Analysis applications from DSC, TGA and Calorimetry. **CALISTO** comprises two independent parts :

- **CALISTO ACQUISITION** is dedicated for the control of SETARAM Thermal Analysis Systems
- **CALISTO PROCESSING** is designed for the treatment of any Thermal Analysis Data independent of instrument type and manufacturer.

The HIGHLIGHTS

- **Powerful Baseline Calculation:** **CALISTO** offers the latest technology in baseline calculation to allow for the correct integration of signals and therefore precise evaluation of the thermal event.
- **Data Presentation:** **CALISTO** offers the very latest in graphical data presentation including shading, logo insertion and of course multiple plot displays.
- **Peak Deconvolution/separation:** **CALISTO** allows for the separation of overlapping peaks and shoulders for optimal calculations and data presentations.
- **Direct Export of Curves in Word:** charts are automatically resized for optimum resolution, export and print reproduction.
- **Hassle Free Cp Calculations:** a powerful Cp determination that completes the calculation in only a few clicks.
- **Data Integrity:** **CALISTO** offers all the data security of CFR 21.11 with multiple levels and user accessibility.

DATA ACQUISITION

The CALISTO Acquisition software :

- Program acquisition procedures (all experimental conditions and parameters)
- Control one or more Setaram systems via a PC
- Save experiment signals and monitor their progress in real time
- Change experimental conditions during an experiment
- Trigger acquisition of other equipment (mass spectrometers, FTIR,...)

CALISTO Acquisition software is available for the exciting NEW range of EVO products and is also compatible with existing SETARAM products.

CALISTO Acquisition provides a unique combination of ease-of-use and intuitive operation as well as powerful control of your Setaram systems.

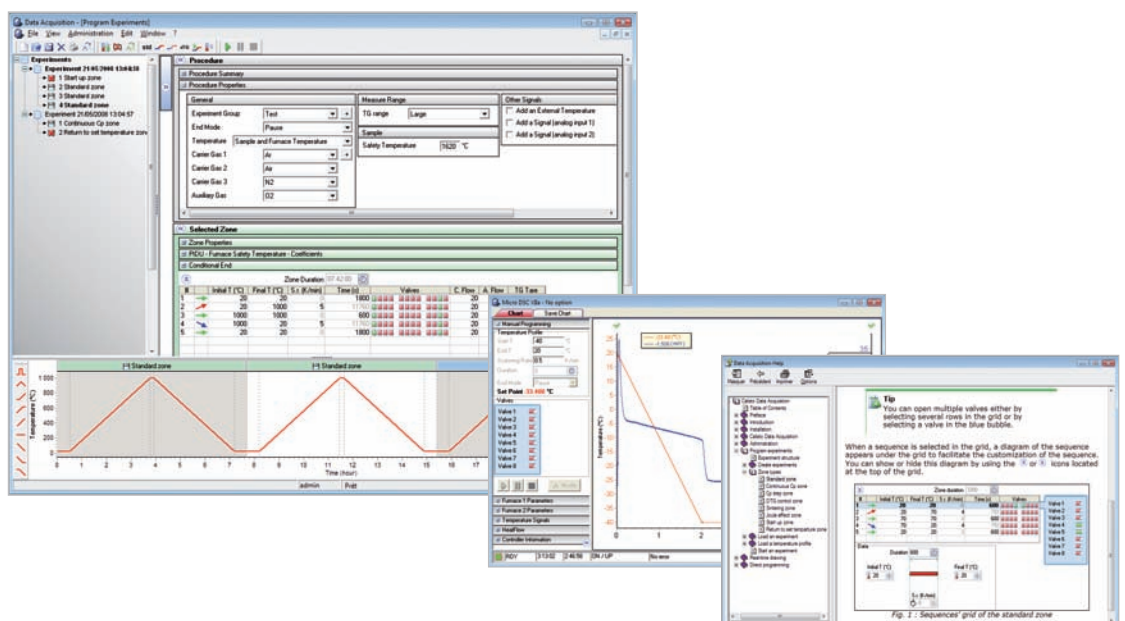
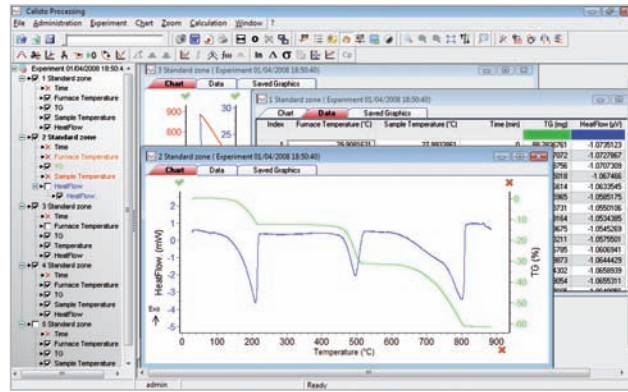


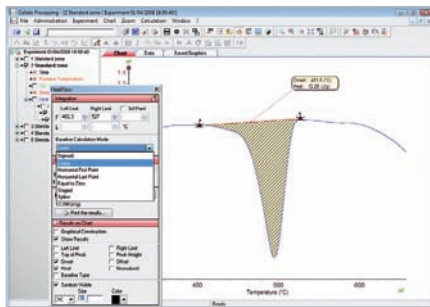
Fig. 1 : Sequences grid of the standard zone

The CALISTO Processing software :

- Imports files saved in **CALISTO** Acquisition
- Imports signal files from other equipment (mass spectrometers, FTIR, ...)
- Treats recorded signals



The **CALISTO** Home Page is a powerful graphical user interface that is ergonomically designed with all of the tools required instantly accessible. Switching between open curves is a simple click, and all key buttons are located in the tool bar. These buttons are clearly labelled and identifiable.



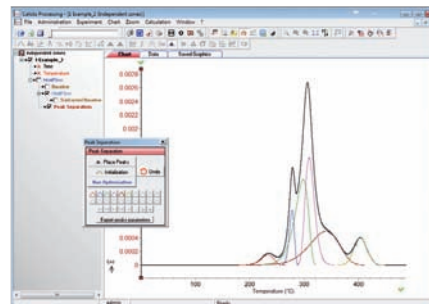
Baseline Selection / Subtraction

The correct baseline selection is one of the most critical parts of data treatment and **CALISTO** offers a new standard in baseline treatment. Standard baseline treatments are easily accessible, but more precise options for the treatment of data are also available.

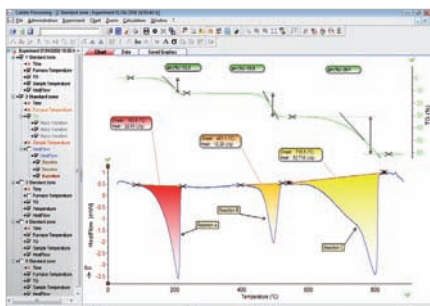
- **Baseline Flattening:** sloping baselines due to Cp changes and other effects can be flattened.
- **Baselines:** can be automatically selected or optimized visually using the zoom functionality.

Peak Deconvolution / Separation

CALISTO offers a unique peak separation procedure that allows for the interpretation of overlapped processes and characterization of the individual thermal events.



Data Presentation



CALISTO offers the operator a unique level of power and flexibility to present data with the maximum impact, including the following features :

- **Colors:** **CALISTO** offers coloring, shading and transparency, even the ability to select patterns
- **Overlap data:** multiple curves can be displayed with the same, or different axis, specific colors and patterns
- **Data Labels:** mark each curve, or highlight a specific area with customized labels and text. The data in each label can be automatically generated in standard report formats.

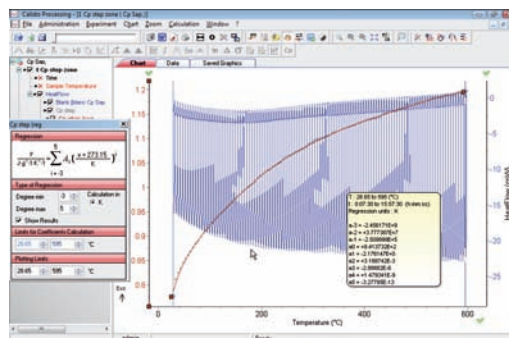
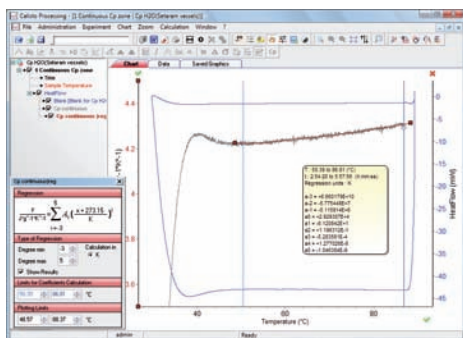
Data Export

CALISTO offers the most easy-to-use and powerful data export tool.

- for graphical data (png, gif, bmp, jpg, emf...)
- for raw and calculated points (xls, ascii, html, xml,...)



CALISTO offers two powerful Cp calculations subroutines for the determination of heat capacity. These methods have been optimized to be as automated as possible, and therefore the data interpretation can be completed in a few clicks by even the most inexperienced operators.



Evaluation of heat capacity in continuous or step-scan mode

Specifications

Minimum Configuration For Calisto Acquisition and Calisto Processing :

Microsoft Windows XP or higher
Intel Pentium 2 CPU 1.00 Ghz
128 Mb of RAM

Recommended configuration For Calisto Processing :

Microsoft Windows XP or higher
Intel Pentium 4 CPU 3.00 Ghz
1.00 Gb of RAM

Mathematical features include:

- Heat capacity determination
- Peak separation
- Inverse filtering
- Glass transition
- Regression analysis - data fitting
- Customize equation
- Advanced baseline construction
- Solid fat index function
- Reaction progress from DSC
- Baseline subtraction
- Normalized subtraction
- Integral
- TMA (alpha point, true alpha, average alpha point)
- Temperature correction
- Mass variation
- Tare
- Derivative (with various filter types)
- Smoothing (Gaussian and Savitzky & Golay)
- Cut curve into sections or segments
- Slope correction
- Natural logarithm
- Drag point
- Data spike removal, etc.

Option: AKTS Thermokinetics software for comprehensive investigation of reaction or decomposition



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