

Chrom-Card Data System
A simple, chemist-oriented data handling system...
...productive from the first day!

Chrom-Card Data System

The GC does the job,
Chrom-Card makes it real!

Chrom-Card™ is a unique data handling system designed by chemists to make your gas chromatograph highly productive from the first day. It benefits from the extensive integrator knowledge available in the analytical laboratory providing a simple software solution that efficiently acquires and stores data from gas chromatographs.

The One answer for any GC lab

Users are brought up to a high productive level in a very short time. Besides simplicity, Chrom-Card complies with most of the requirements of modern laboratories in terms of data security, reporting and networking. It operates under software platforms: Microsoft® Windows® 2000 and XP. More than 5000 channels sold worldwide indicate doubtless recognition of a top quality product.



Chrom-Card's latest evolution delivers several other valuable benefits, perfecting the standard for stability and ease of use:



No error-prone set up steps

Extremely intuitive functions allow the software to automatically "learn" the configuration of the instrument at the press of a button.

Zero learning-time method set-up

The new GC and autosampler programming interfaces and the innovative "Virtual Keypad" result in fast set-up and direct real-time control over the GC.

Real value for your money

Hence, the possibility to build the sequences combining different GC and autosampler methods increases the productivity from day one.

Two in one

Comprehensive data handling and chromatogram manipulation possibilities combine traditional integrator capabilities with the power of the personal computer.

Four Winning Aces

The synergy of the TRACE GC Ultra™/FOCUS GC and Chrom-Card software makes this duo the most powerful tool in the marketplace. Enabling control of all available options fully supports those outstanding unique features that only Thermo GC's are capable of delivering:



TriPlus™: The power of the "dual GC" mode

For high throughput demanding labs, Chrom-Card can control the TriPlus autosampler installed on 2 adjacent GCs for utmost productivity and versatility.



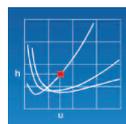
Double-Pro: the work of two at the price of one

When an autosampler injects alternatively in two inlets, Chrom-Card can deliver extended flexibility enabling different method setup for either injectors. No other system offers this level of flexibility.



Large Volume Technique: inject more to boost sensitivity

The possibility to combine a software specifically designed to setup and automate Large Volume Injections on the TRACE GC Ultra makes Chrom-Card the ideal complement for this instrument. LVI has never been so easy and affordable.



....and a couple of additional features.....

The carrier gas linear velocity calculator indicates the most suitable pressure/flow values for your analysis. The vapor cloud volume utility helps to select the proper liner dimensions.

Both features are mandatory requirements for high quality results.

Available configurations

Chrom-Card DS

New software dedicated to the TRACE GC Ultra gas chromatograph. Acquisition and instrument control are performed entirely through a digital RS 232 serial connection. It is capable of controlling and acquiring from up to three different instruments.

Chrom-Card A/D DS

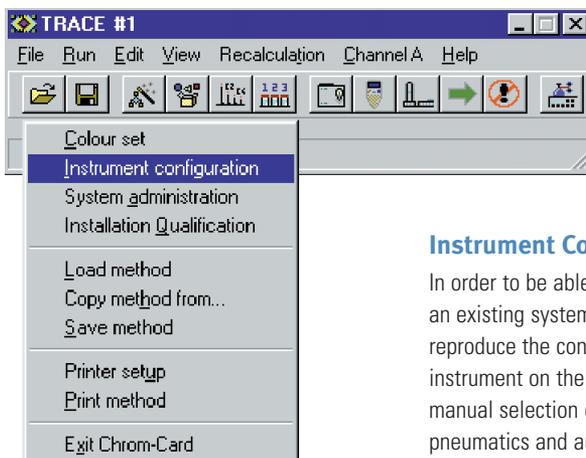
Renewed version of the well established Chrom-Card used in the past for all previous Thermo gas chromatographs (GC Mega II, 8000 and 8000Top). It is, therefore, dedicated to instrumentation with analog output.

Chrom-Card upgrade

For 32 bit, is the necessary complement for all existing 16 bit Chrom-Card users. Adding the benefits of working with a 32 bit software environment and the flexibility and ease of use of Windows '95, '98, 2000, XP and NT, demands no further learning time.

Fast setup and comprehensive instrument control

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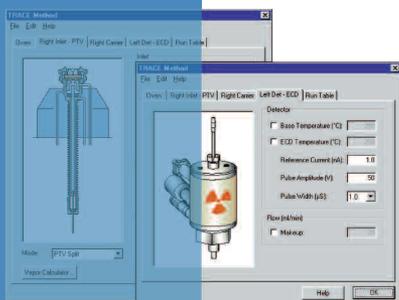


Instrument Configuration

In order to be able to control all the parts of an existing system, the first step is to reproduce the configuration of the instrument on the PC. This usually requires manual selection of all the inlets, detectors, pneumatics and autosamplers involved.

The "get" button available on the instrument configuration page does this for you!

Clicking on it will immediately transfer all the instrument's hardware information to the computer, becoming a powerful tool when instrument and PC are not in the same location.

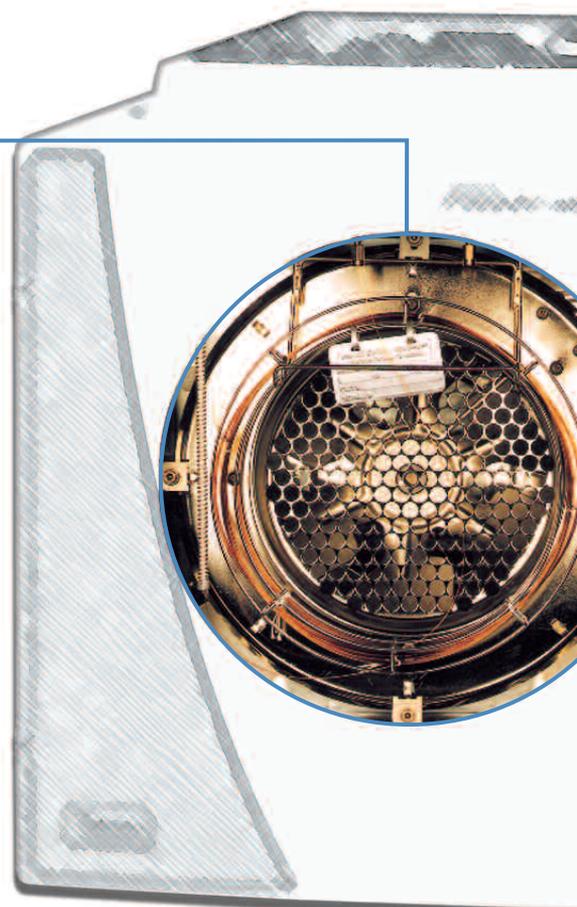


Gas Chromatograph

The intuitive layouts allow at-a-glance recognition of the key parameters to be defined.

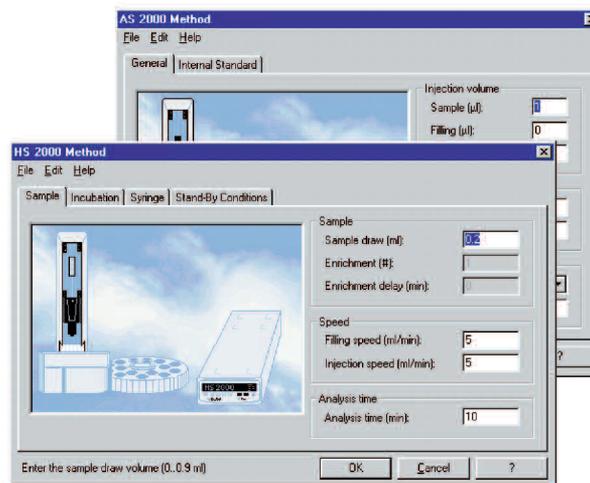
Moreover, the complete visible list (tab menus) of all the configured options leads the operator through a step-by step instrument method set-up.

Additional functions from the pull down menu allow all parameters to be transferred automatically from and to the GC.



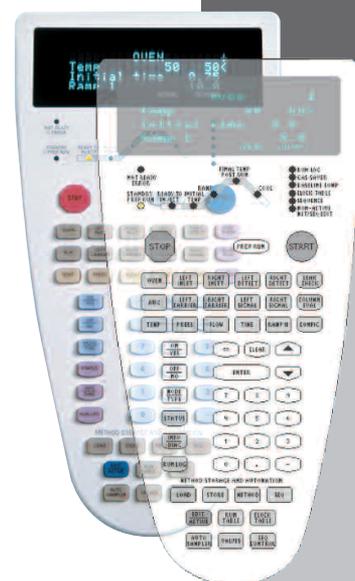
Autosamplers

Specifically designed sections feature comprehensive parameter lists used to create the most suitable method for both liquid and headspace injections. Parameters may be entered either from the GC's keypad or from the Chrom-Card's dedicated menu. Whichever method can hence be retrieved into the sampler memory at any time. Just another feature thought to make life easier and more productive.



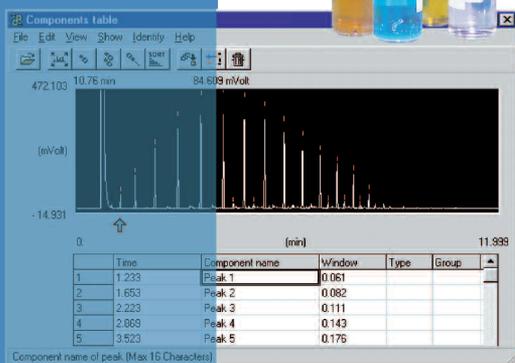
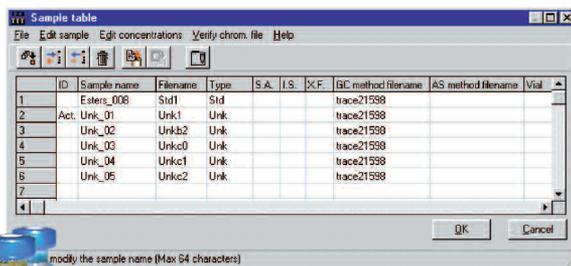
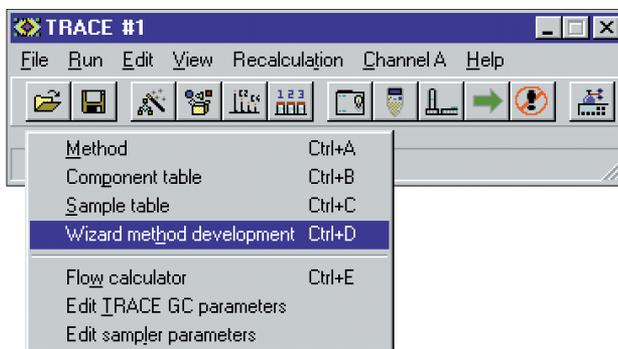
The Virtual Keypad

The innovative "virtual keypad" permits real-time remote instrument/PC interaction. This is an interface designed to reproduce the keyboard of the TRACE GC Ultra, increasing familiarity and making instrument control as simple and effective as it has ever been. With this function it's like having the GC inside your computer!



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Powerful conversion of data into results



Method development

Under a unique method name, all the necessary information is saved to automate analyzing, data processing and reporting of predetermined batches of samples. Method parameters can be entered by directly selecting the section of interest from dedicated icons or following the step-by-step procedure of the method wizard.

An important section of the method is the sample table. This is used to fully characterize each sample to be analyzed with name, amount, internal standard amount (if any), dilution factor, GC and sampler method used, and vial position.

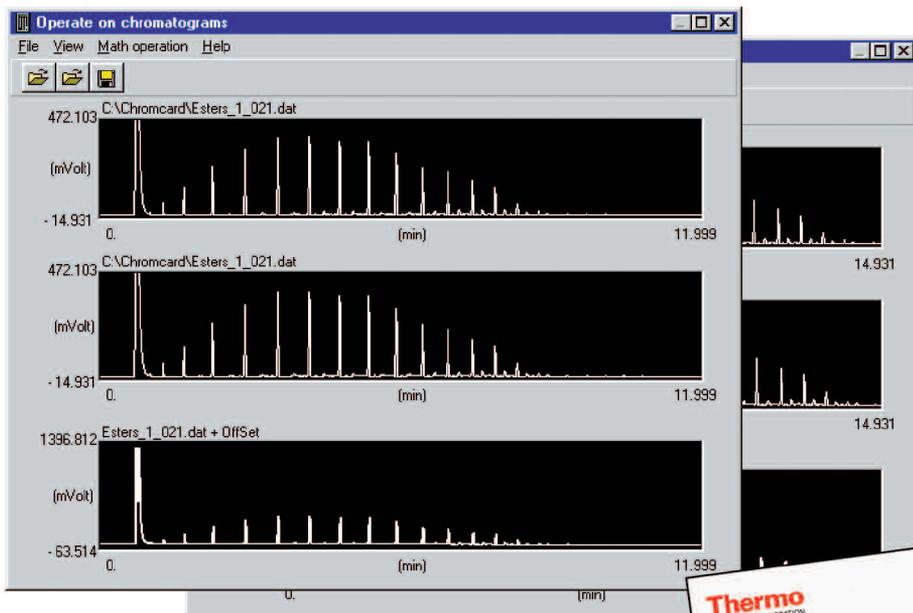
The component table is then used to list the names of all analyzed components. Each name is automatically assigned to each peak as a function of absolute and/or relative retention time, and confirmed by a crosscheck with absolute or % retention time window. Detection/integration parameter sections provide the possibility to define the acquisition requirements and the integration constants. Additional functions such as "baseline compensation" can be selected, and utilities such as "test integration" can be prompted to further adjust integration quality.

Customize your own Wizard!

A check-box menu allows you to select only the method sections you want to develop.

An according number of subsequent steps will then be prompted, guiding you through the most logical method compiling process.





Data handling

Chrom-Card delivers exhaustive data handling capabilities in order to increase the level of information available.

Overlaying of up to 5 different chromatographic traces with the same axes' scale gives the opportunity to compare multiple chromatograms with a reference. Possible discrepancies in retention times and/or area values are immediately highlighted and may be flagged.

Further information out of the acquired data can be provided by the "operating on chromatograms" function. This allows the user to perform mathematical operations between two chromatograms such as adding, subtracting, and performing the 1st derivative and smoothing.

Intuitive commands make these operations extremely quick and straightforward, turning Chrom-Card into a powerful yet easy to use platform.

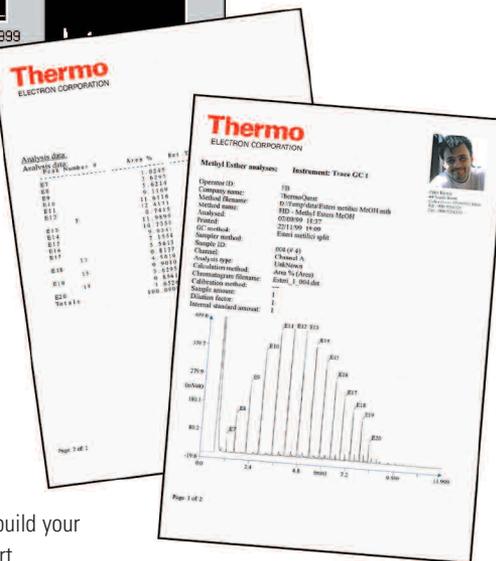
Reporting

Choose a pre-arranged format or build your own custom report with the "report publisher".

The different requirements of the modern laboratories to completely certify the results according to internal or regulated procedures demand a wide range of reporting capabilities. Hence company logo, title, chromatogram format, customizable data reporting, calibration curves and many more functions can be selected and included in the report in the most suitable way.

Additional information such as signal-to-noise ratio can be easily added throughout extremely simple and uncluttered commands.

Moreover, an Installation Qualification program, available together with Chrom-Card, can be run at any time to fully test and document the integrity of all integration and calculation algorithms. Be ready for a validated environment.



Multilevel Password Protection

As specifically required for GLP compliance, Chrom-Card features multilevel password protection capabilities. A comprehensive list of sections (including method development) offers the possibility to customize the access levels according to each user's profile, just by checking boxes.



With the broadest range of chromatographic separation products in the industry, Thermo Electron Corporation can help maximize efficiency and boost productivity by providing "one stop" sourcing for GC, GC/MS, specialized reporting systems, method development, columns, consumables, and customer support.

From routine analysis to more demanding research applications, Thermo's full range of instruments and accessories provide complete laboratory solutions to meet all needs.



DSQ™ GC/MS



FOCUS DSQ GC/MS



TRACE GC Ultra



FOCUS GC



Polaris Q



Columns and Consumables

Laboratory Solutions Backed by Worldwide Service and Support

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