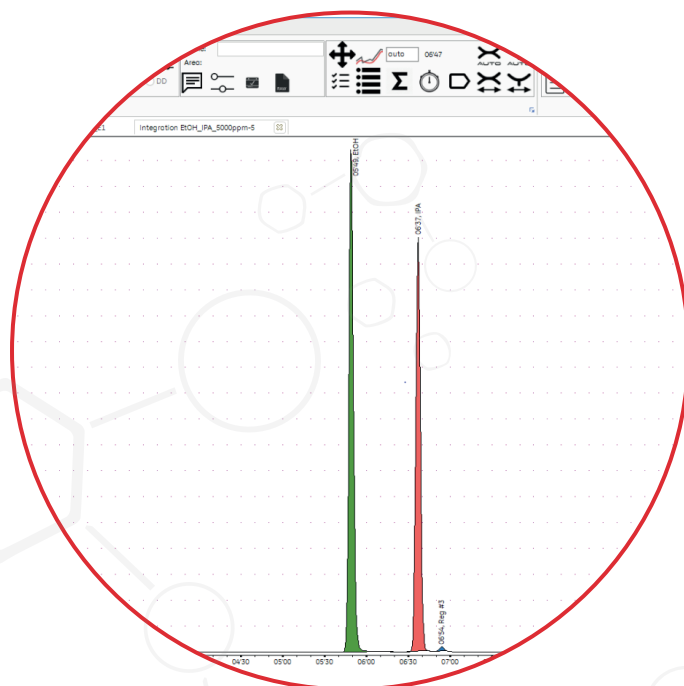


N° 1 RADIO-CHROMATOGRAPHY SOFTWARE

THE CENTRAL RADIO-CHROMATOGRAPHY SOFTWARE FOR YOUR LAB

- RADIO-HPLC, RADIO-TLC AND MCA ANALYSIS
- EASY AND INTUITIVE
- SPECIFIC FEATURES FOR RADIO SIGNALS
- FULLY GMP COMPLIANT



GINA X is a data acquisition and evaluation software for chromatography and specialized for radio-chromatography, It allows an easy control of your liquid or gas chromatography.

GINA X is the heart of the QC laboratory control, it can control the radio-HPLC, all our radio detectors, our TLC systems, the GC and our multichannel analyser.

GINA X has an intuitive graphical user interface with the highest standards and features enabling you to be compliant to GMP, cGMP and 21 CFR part 11 regulations.

GINA X is developed under GAMP 5 and designed for GMP. Specific calculation features for radio signals such as decay correction, quench correction or half-life time correction make the difference to standard chromatography software.

GINA X is the latest evolution of our Gina Star software. It has a completely new structure and design. It covers the digital data acquisition, instrument control and evaluation of the data. An audit trail and a user access control with defined security levels meets all demands for data security. The process data, raw data and application-specific setup information are stored in a protected data base to increase the data protection. Special check sums and name tags allow to link data sets, measurements and instruments and prevent from data manipulation. Filters and search tools simply allow identification of who, when, why, how?

The chromatography software is a universal solution for many commercially available chromatography systems, it controls nearly the full range of Agilent, Shimadzu and Knauer HPLC and GC systems.

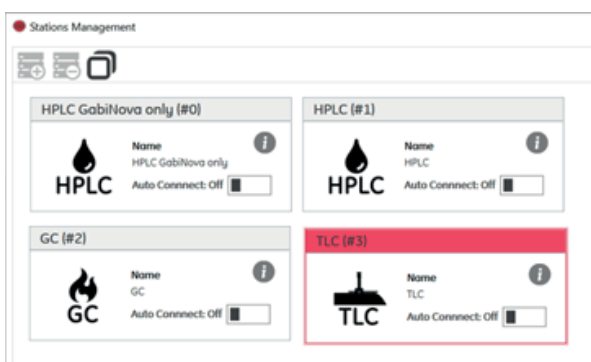
The portfolio of controlled instruments increases constantly, and the list of validated instruments is available on our web page.

You can simply upgrade your Gina Star to GINA X as older Gina data sets can still be used for evaluations.

GINA X is a modular software with optional software modules for specific features or instruments. The basic licence contains the evaluation module and can simply be upgraded by all other modules.



Multi station management



GINA X is able to control several chromatography systems at the same time. With one PC or user access point you can control several HPLC's or other chromatography systems such as a GC or our miniGITA. The user-friendly interface allows a simple overview of all available systems and makes the lab management easier.

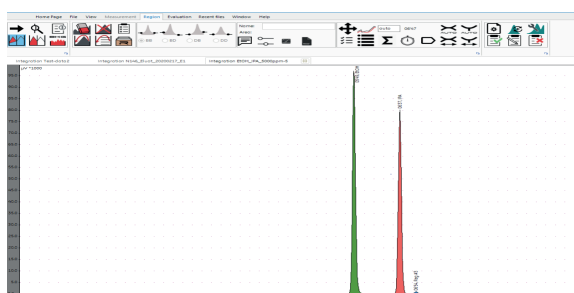
User access module

The user access module will give you access to the extended audit trail and the search functions. Beside the Audit trail it will enable the full user management. Simply create different users with different user levels and decide about the rights of each user level.



Evaluation module

The basic evaluation module is used to evaluate older Gina Star data sets or to evaluate data sets generated with instruments controlled by GINA X. It allows to use and work with Gina measurement files without the



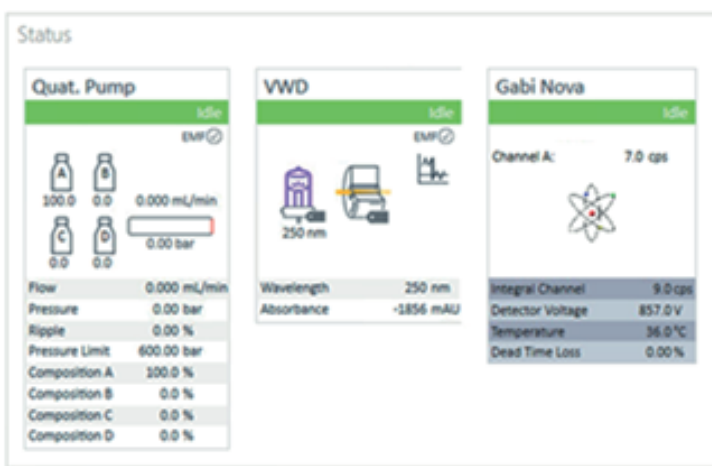
need of a connected Elysia-raytest detector.

It has all features needed for the evaluation of a data file from a GC or a radio-HPLC. It comes with a large band of features such as automatic peak detection, half-life time correction, background subtraction or automatic report generation.

Radio detector control module

This extension is needed to use GINA X to control one of the Elysia-Raytest radio flow detectors (Gabi Star, Gabi Nova, Ramona, Pomo...). It will allow to control the detectors, provide a full digital signal transfer and give access to advanced instrument settings.

With a suitable probe and the optional gamma spectrum module you can also acquire and analyse a gamma spectrum.



LC control module

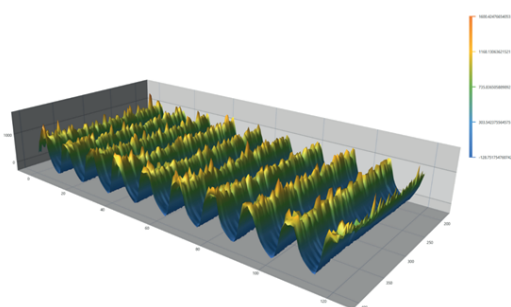
We propose LC control modules for different HPLC brands such as Agilent or Shimadzu. Each LC module will give you the control of nearly the entire LC range of a specific brand including pump, auto-sampler, column oven, detector (UV, RID, DAD...) and fraction collector control.

GC control module

We propose GC control modules for different GC brands such as Agilent or Shimadzu. Each GC module will give you the control of nearly the entire GC range of a specific brand including liquid injector, head-spacer and GC.



Diode array module



This module is needed for the data acquisition from a Diode Array detector. It allows to show the complete data set from the DAD measurement in a 3D Graph. Simply track your mouse over the 3 D Spectrum to find the regions of interest. The software will show you in a 2D window the corresponding spectrum and chromatograph.

Data security

GINA X is not based on a file management like older chromatography software, but it is writing all data directly into a SQL data base. This setup gives a much higher access and data protection than a file system.



GMP and CFR 21 Part 11

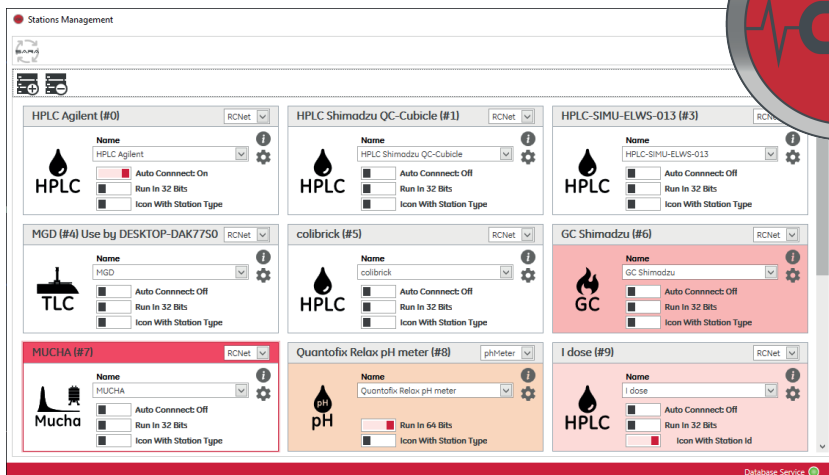
The software was developed to be used in a GMP environment. Digital signal transfer, a data base structure, development under Gamp5, check some security and user access functions are only some of the features enabling you to be compliant to GMP, cGMP and 21 CFR part 11 regulations.

The extensive audit trail with the advanced search functions allow an easy and comprehensive overview of your last actions and data entries. Quickly track who took an action, which action, how and when it was done.

Technical Specifications

(Some features are only available with the optional module).

- Automatic peak detection and integration
- Dead time correction
- Half-life time correction
- Advanced radio signal background subtraction
- Basic spectrum analysis
- GC, LC, TLC and radio detector control
- GxP features
- User management (access and level control)
- Audit trail
- Electronic signature
- Multi language (French, German, English...)
- Gamma spectrum acquisition and evaluation



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