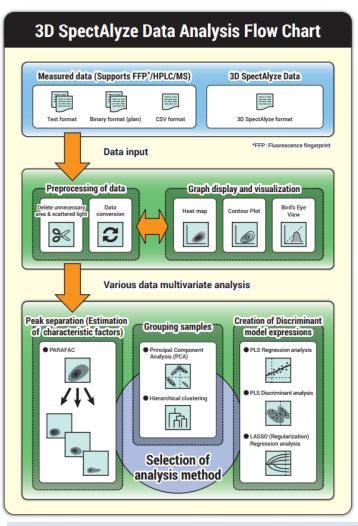


3D Spect Alyze®

Multivariate analysis software specialized for various analytical data including fluorescent fingerprint



Main features

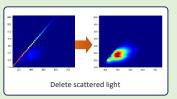
- Various multivariate analysis are possible
 A simple operation various multivariate analysis can be done, such as
 grouping samples, creating discriminant model expressions,
 discriminant of unknown samples using model equations, peak
 separation, etc.
- Preprocessing of data
 Preprocessing (deletion of unnecessary area/deletion of scattered light) is possible while confirming the image data of the read sample.
- Simple user interface
 Even for users who are new to multivariate analysis, it is possible to perform data acquisition and analysis results display with a simple screen operation.
- Supports multiple types of analysis data
 Data obtained from Hitachi's analysis equipment such as
 spectrofluorometer, liquid chromatograph, mass spectrum are
 supported.
- CSV Data Input is possible
 It is possible to read CSV format files output from other analysis software, spreadsheet software etc.
- Save image data
 The image data of the imported sample and the graph of the statistical analysis result can be saved as an image file (PNG / JPEG / PDF).

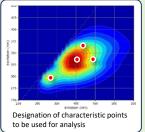




Preprocessing function

Delete scattered light / Specify analysis range / Center data / Select data / Specifying variables to use for analysis / Group Data



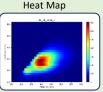


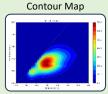
Graph display function

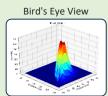
Heat Map / Contour Map / Bird's Eye View /

Color tone change / Data multiple display / Transposition of axes

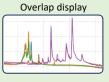
Visualization of Fluorescence Fingerprint Data

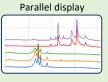






HPLC data visualization



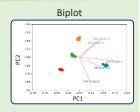




Statistical analysis function

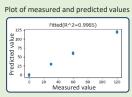
Principal component analysis (PCA)

It is a method of aggregating multiple measurement values into fewer indices. It is useful when you want to see which samples are similar by summarizing all data.



PLS regression analysis / discriminant analysis

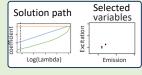
It is a method to construct a model that predicts unknown sample of discrete or continuous variables by using all measurement values. It is a strong feature when there is a correlation between variables.



LASSO regression analysis

It is a method that automatically chooses characteristic points by cross validation and constructs a prediction model. It is effective to predict and discriminate unknown samples.

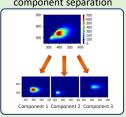
Show the variables that contribute to the result



PARAFAC analysis

It is a technique to separate each component from the fluorescent fingerprint data where multiple components overlap, and extract features.

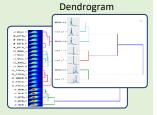
Heat map before and after component separation



Hierarchical clustering

can be visualized.

It is a method to create a cluster in order from the most similar sample from the data of multiple samples. By displaying image data the difference



Function comparison table

DYNACOM Co., Ltd.

Grade	Basic	Standard	Pro
Data input	0	0	0
Pre-processing of data	0	0	0
Data visualization	0	0	0
PCA	0	0	0
PARAFAC	0	0	0
PLS		0	0
LASSO		0	0
Hierarchical clustering			0
Data management function			0

System requirements

System: Windows 8.1 / 10 RAM: 4GB or more Disk space: 10 GB or more

Others: CD-ROM drive (for software installation)

Standard USB 1.1 interface, compatible with USB 2.0 *

User management is conducted by using a USB-dongle on this product. Therefore, one USB port is necessary during this software execution.

Support

Free support for 1 year after purchase is attached.

https://www.dynacom.co.jp/english/company/

[e-mail] info@dynacom.co.jp

Sales Agent

Hitachi High-Tech Science Corporation You can download the trial version from their website and use it.