

Unscrambler Classifier



Enabling

Online Classifications

Process Control | Process Monitoring | Quality Control

The Unscrambler Classifier is a CAMO initiative designed to make classification models generated in The Unscrambler®, more widely accessible to third party instruments and control systems. Classification of new samples is then possible in either an at-time or in-line mode of analysis and results can be displayed in tabular or graphical formats.

Unscrambler Classifier

Automate operations

Apply classification models automatically to data collected from process based instrument(s).

Quality control level of result detail

Specify the level of detail of the results obtained. These can range from only the class members, to members, distances (scaled / non-scaled), variances, scores and leverages.

Flexibility of result operations

Ensure reliable results within pre-defined limits. Preview classification results within the client software. Results can also be saved in tabulated form or as graphs.

Reduce deployment & training costs

Models developed can be seamlessly transferred with no prior knowledge of The Unscrambler®. This leads to lower manufacturing costs and maximises ROI.

Features

- Perform real-time classification on raw data obtained from laboratories or process equipment
- SIMCA classification
- DLL function calls (32-bit) for easy usage
- Automatic data preprocessing, supports all pretreatments available in The Unscrambler®
- Programmers reference manual available for in-house customisation
- Supports The Unscrambler®'s merged model file format for PCA. This format includes all model and pretreatment sub-files into a single file. This facilitates storage and re-location of The Unscrambler® model files for usage in Unscrambler Classifier **New**
- Supports PCA models built in The Unscrambler® 7.x + higher
- Supports multiple models simultaneously
- Outputs Hotelling T2 statistics to help facilitate the detection of outlying samples **New**
- Can be used together with Unscrambler Predictor (for online prediction)
- Runs on Windows 98, Me, XP, Vista or Windows NT, 2000, 2003

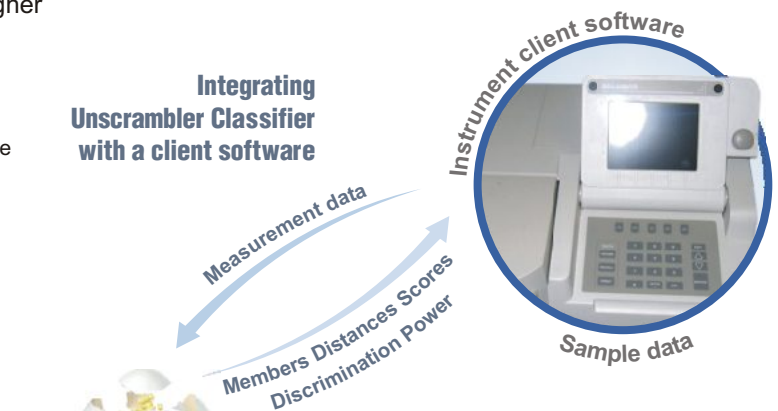
Application areas

- Provides quality measure used on the output of spectrometers or other process instruments
- Process surveillance, on-line quality assurance, automatically accepting or rejecting items
- On-line recognition and sorting of objects based on a combination of characteristics. For e.g. weight, shape etc
- Identify contaminated samples based on multiple measurements
- Classification of raw materials based on measurable characteristics
- Integration of spectral / chromatographic data of samples, which can be configured to classify samples into groups like Good / Bad, Pure / Adulterated etc

How to implement Unscrambler Classifier?

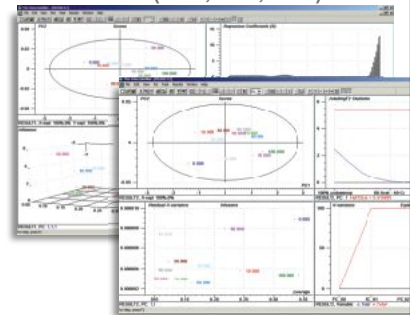
Unscrambler Classifier can be integrated into a client software platform by writing API function calls into it. Whether the software is developed in C / C++, Visual Basic, Fortran etc. functions are called in a DLL. New samples from the client software are fed into Unscrambler Classifier for reliable classification results.

Integrating Unscrambler Classifier with a client software



Unscrambler Classifier

The Unscrambler® model files (PCA, PLS, PCR)



30 Day Trial

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classifier.camo.com



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