

The next generation of real-time
multivariate data analysis software
Unscrambler X Process Pulse

Product Overview

Unscrambler X Process Pulse is a simple yet powerful standalone application for pilot plant through to full scale manufacturing operations.



Find out more →

For more information, please contact your regional
CAMO office or visit www.camo.com

General Real Time Analysis

Wide Range of Data Imports

- ▶ Accepts ASCII and Excel formats
- ▶ Supports most spectroscopic data formats including JcampDx, Grams (*.spc), Bruker OPUS, Brimrose (*.BFF4), ASD Indico, Omnic (*.spa), Varian (*.bsw), Guided Wave, NSAS (Foss NIR Systems), Perkin Elmer (*.sp)
- ▶ OPC ready
- ▶ Can be connected to SCADA and DCS systems through Modbus, Profibus & 40-20

Easy to Set Up

- ▶ Plug n Play style setup
- ▶ Uses The Unscrambler® X predictive and classification models
- ▶ Set up wizard guides user through the process
- ▶ Simple product tree and data view formats

Utilises full capabilities of The Unscrambler® X Models

- ▶ Automatic pre-treatment of new data before application of The Unscrambler® X models
- ▶ Set the number of components to use for each model in the configuration setup
- ▶ Utilises all pre-treatments available in The Unscrambler® X
- ▶ Apply PLSR/PCR and MLR predictive models
- ▶ Apply PCA Classification (SIMCA) models

Plotting and Data Visualization

Commonly Used Plots

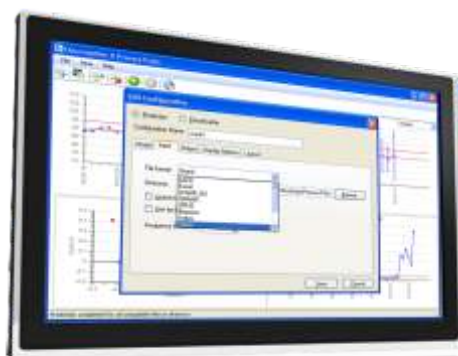
- ▶ Predicted values with upper and lower limits
- ▶ Scores plots (line and 2D scatter) with Hotellings T² Ellipse
- ▶ Q-Residuals Plots and Hotellings T² plot with 6 levels of significance
- ▶ Contribution Plots

Enhanced Plotting Features

- ▶ Plots can be customised using a number of pre-defined themes
- ▶ Interactive drill down to raw data
- ▶ Numerous formats for displaying plots
- ▶ Interactive drop-down boxes to switch between plots
- ▶ Copy and save option to capture data at specific time points

Fully Customisable

- ▶ Plots can be added based on specific user requirements
- ▶ Scalable standalone application
- ▶ Can incorporate new methods and pre-processing algorithms as required



Data Security and Integrity

Simple Security System

- ▶ Windows domain authentication
- ▶ Audit trailing including time stamping and time zone logging
- ▶ Password protection option for configuration files

Simple Database System

- ▶ All result files are time stamped and retained in a simple archive with easy file searching capabilities
- ▶ Results stored in Excel format including all predicted results and diagnostics
- ▶ Separate alarms folder for post analysis of any faults detected

Editions and System Requirements

- ▶ 32 or 64 bit operating system editions
- ▶ Windows 2003, Windows 7, Vista, XP (SP2 or higher) compatible
- ▶ Minimum 1 GB RAM recommended
- ▶ Minimum 150Mb HHD recommended
- ▶ Internet Explorer 7.0. or higher

Please note
customization is available, including:

- ▶ PCA batch projection methods
- ▶ Hierarchical analysis
- ▶ Multi-block analysis

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