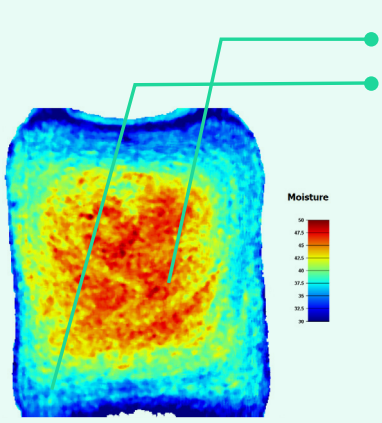
evince.

HYPERSPECTRAL IMAGING
EXPLORE - ANALYSE - UNDERSTAND

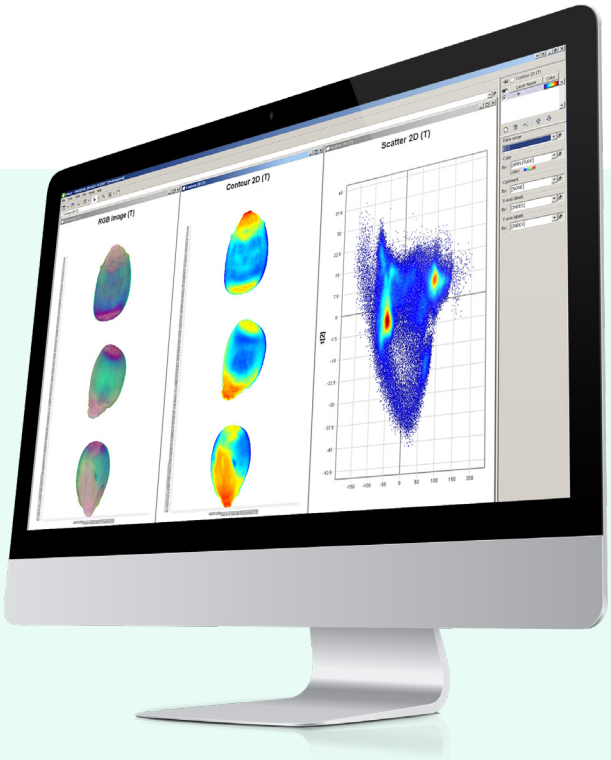
Prediktera.

What is EVINCE?

Evince is the ultimate software for analysing hyper- and multi-spectral images. This powerful research toolbox enables you to use multivariate modelling techniques to explore, analyse and understand the chemical information hidden in your images and data. Its flexible graphical user interface provides a wide range of visualisations and a clear interaction between data and graphics makes the exploration fast and effective.



Quantification analysis of hyperspectral image data: Moisture in bread.



Main Functionalities.

Flexible import and export of a large variety of image and data formats including RAW, MAT, PNG, JPEG, TIFF, XLS, CSV etc.

Classification and quantification of image data using multivariate modelling techniques, e.g. PCA, PLS etc.

Powerful interactive graphics for exploration of spectral data, images and models.

Flexible visualisation of your data, e.g. images, plots, graphs, and tables.

Application areas.

Evince can be used in a wide variety of applications for research:

- Food
- Agro
- Pharma
- Forensic
- Plastics
- Medical
- Cosmetics
- Archeology
- Art and conservation
- Environment and many more!

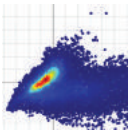
Data Processing.

- Automatic unfolding of 3D image data hypercube
- Principal Component Analysis, PCA
- Partial Least Squares regression, PLS
- PLS Discriminant Analysis, PLS-DA
- SIMCA modelling
- Object based analysis
  - Spectral properties
  - Structure parameters like shape and size
  - Particle distribution
- Spectral pre-processing
  - Standard Normal Variate, SNV
  - Savitzky-Golay smoothing and derivatives
  - Multiplicative Signal Correction, MSC

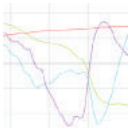
Visualisations.

RGB IMAGE. Utilize the RGB image for viewing raw image data, PCA scores or response variables.

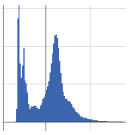
SCATTER 2D. Find image areas of interest. The density colouring is useful for discovering main features in the image.



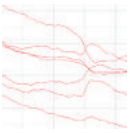
LINE PLOT. Analyse the loadings of your multivariate model. Discover important spectral bands, which have high impact on the model.



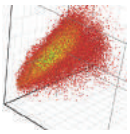
HISTOGRAM. Use the histogram for viewing the distribution of your data.



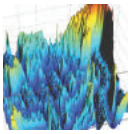
SPECTRAL PLOT. View the spectra of selected points in score plots or RGB images. Both raw spectra and transformed spectra can be shown in this way.



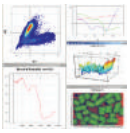
SCATTER 3D. Find pixels of similar spectral properties while working in three dimensions. It is fully rotatable in real-time.



CONTOUR 3D. View any two-dimensional data in three dimensions using the Contour 3D plot. It is fully rotatable in real-time.



MODEL PLOTS. Create a series of useful plots for image analysis in a snap. The pre-defined model plots offer quick access to your image data.



System requirements.

- Runs on Windows®, Linux (X64) and Mac.
- 64-bit OS.
- Support for multiple CPU cores and multithreading to increase performance.
- Minimum system memory requirements: 4 GB RAM (16 GB recommended)
- For Mac and Linux separate installations of Java version 8 or later required.

Your contact.

Prediktera gives you user-friendly software solutions. With over 15 years of experience in data and imaging analysis we aim to be your preferred provider of software solutions for hyper- and multi spectral imaging.

For sales and general questions, please use the contact information below. We are here for you!

Book a demo

Download a free 30 day trial

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