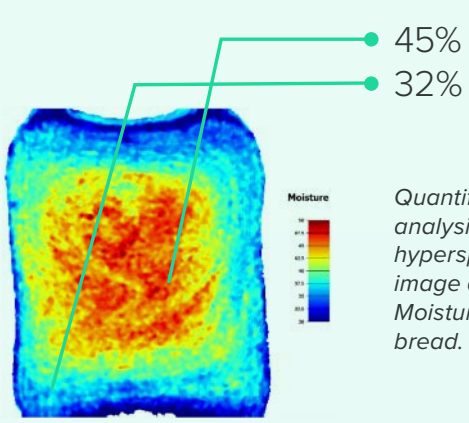
evince.

HYPERSPECTRAL IMAGING
EXPLORE - ANALYSE - UNDERSTAND

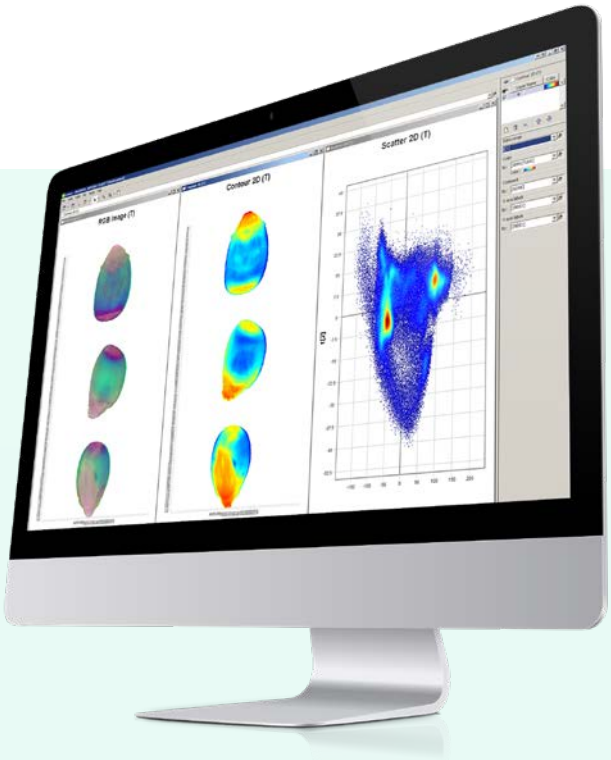
Prediktera.

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.

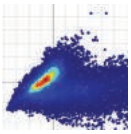
Data Processing.

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

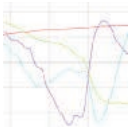
Visualisations.

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

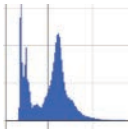
SCATTER 2D. Find image areas of interest. The density colouring is useful for discovering main features in the image.



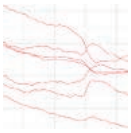
LINE PLOT. Analyse the loadings of your multivariate model. Discover important spectral bands, which have high impact on the model.



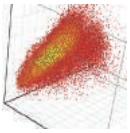
HISTOGRAM. Use the histogram for viewing the distribution of your data.



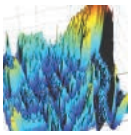
SPECTRAL PLOT. View the spectra of selected points in score plots or RGB images. Both raw spectra and transformed spectra can be shown in this way.



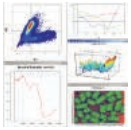
SCATTER 3D. Find pixels of similar spectral properties while working in three dimensions. It is fully rotatable in real-time.



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.

- 64bit OS. Runs on Windows® (minimum 8.1, recommended 10 or later), Linux (Ubuntu 18 or later) and MacOS (11 or later).
- Java Runtime Environment 64 bit, version 20 or later required. Bundled with installation for Windows and Linux versions. Separate installation required for Mac.
- RAM: 8 GB RAM (32+ GB recommended)
- CPU: Minimum 4 core processor, recommended 8 core or more (intel, i7 or better). GPU not required.
- HDD: Software installation requires 1 GB. Recommended HDD size 1 TB or more (total disk space required depends on data file size).

A trusted partner in hyperspectral imaging.

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 hyperspectral imaging.

We can assist you all the way from early inquiries and hyperspectral application development to custom integration projects.

We help you succeed

"Our software solutions make it easy to get started and productive in hyperspectral imaging. Don't hesitate to contact us to discuss the possibilites in your industry."

– Andreas Vidman, CEO

- **Feasibility studies**
- **Application support**
- **Training**
- **Software support**

Contact us.

Download a free 30 day trial

Book a demonstration

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