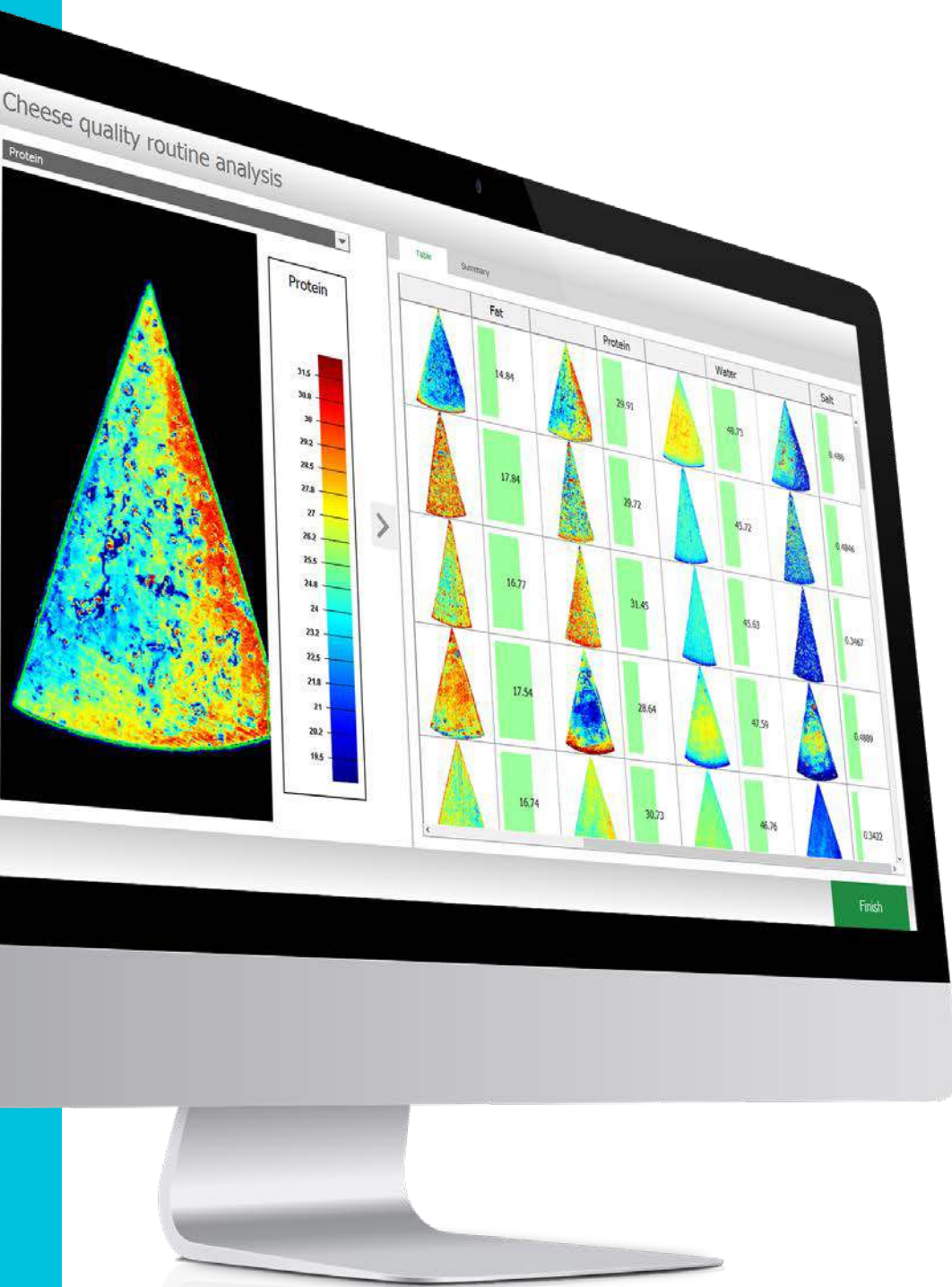


breeze.

HYPERSPECTRAL IMAGING MADE EASY
YOUR SOFTWARE SOLUTION



breeze.

Hyperspectral imaging software

Breeze is Prediktera's premiere software solution enabling a wide range of hyperspectral imaging applications. It is used in research, application development, routine analysis and easily extends into real-time industrial analysis solutions.

- Speed up research and development of applications
- User friendly interface for experts and beginners
- For R&D and for real-time in industry

Your software, from idea to solution!

Data acquisition

- Record from camera
- Control scanner table
- Import image files

Data analysis

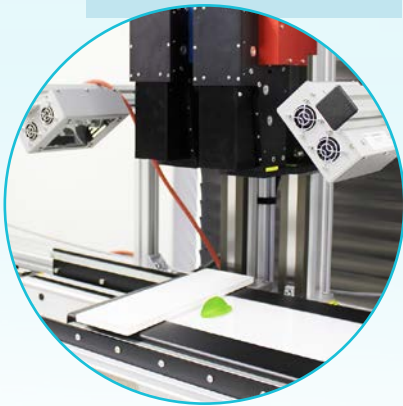
- Explorative analysis
- Model development
- Image segmentation and object recognition

Application development

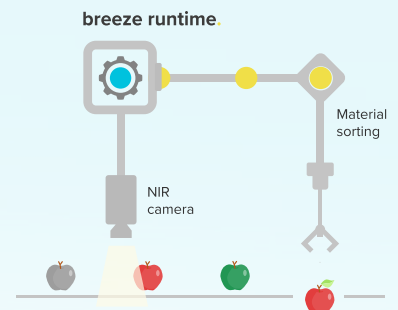
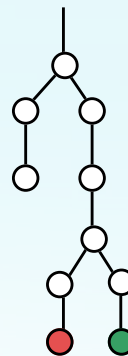
- Develop automated analysis workflows and apply on new data
- Routine analysis

Real-time analysis

- Run applications in real-time
- Interface with external systems through Breeze Runtime.



Neural networks
Chemometrics
Machine learning
Band math
Object recognition



Modelling and data analysis.

Classification

Quantification

Machine learning (ML.NET)

- Auto fit
- Neural network
- Decision tree
- Support vector machine
- Random forest
- Logistic regression
- Maximum entropy
- Poisson regression
- Linear Regression

Chemometrics

- PLS
- PLS-DA
- PCA
- Hierarchical PLS-DA
- SIMCA

Spectral library analysis

- Constrained Spectral unmixing
- Spectral angle mapper

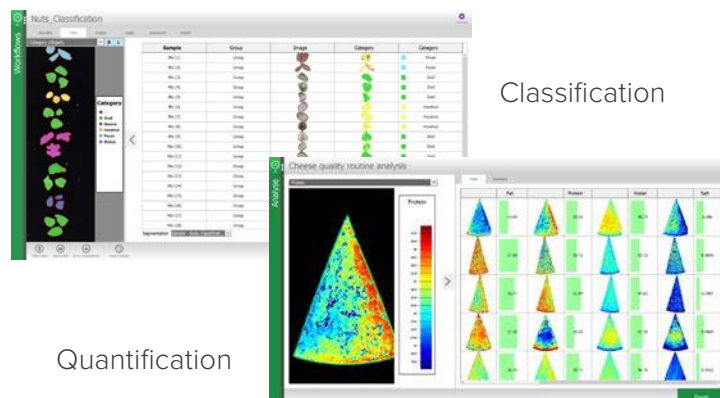
Band math

- Vegetation Index

Neural network ONNX models

- From external software (ex Pytorch)

Python Interface



Classification

Quantification

Object identification and image segmentation.

Spectral analysis

- Classification model (ML, chemometrics)
- Band math

Shape based analysis

- Deep learning
- YOLO v4 and v5
- Faster R-CNN
- ONNX neural networks (ex. Pytorch)

Other segmentation

- Pixel binning, grid, and pixel coordinates
- Manual selection of ROI

Supported systems.

Manufacturer	Camera	Sample mover
HySpex	NIR, VNIR, SWIR	Lab Rack
Specim	LUMO SDK – Swir, FX-10, FX-17	SisuChema Lab-scanner
inno-spec	RedEye	Stepper table
Middleton Spectral Vision		ViaSpec II

System requirements.

- Platform independent - runs on Windows® and Mac operating systems.
- 64bit OS.
- Support for multiple CPU cores.
- Minimum system memory requirements. 8 GB RAM, 64bit OS (16-32 GB recommended)
- 64bit Java Runtime Environment, version 8 or later installed.

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 possibilities in your industry.”

– Andreas Vidman, CEO

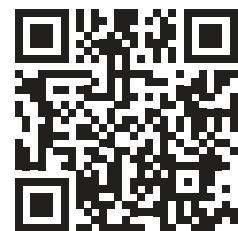
- Feasibility studies
- Application support
- Training
- Software support

Contact us.

Download a free 30 day trial

Book a demonstration

info@prediktera.se



prediktera.com