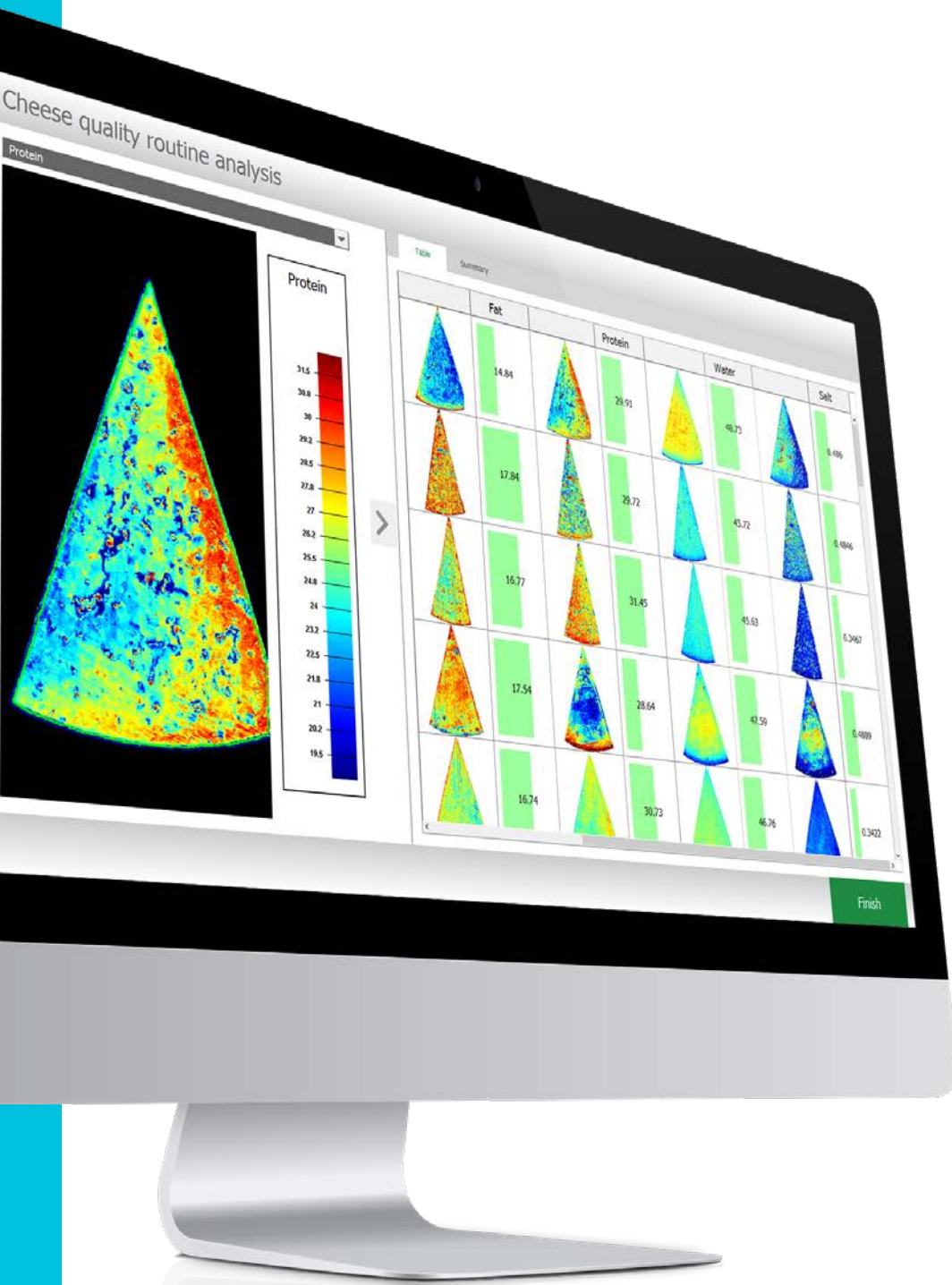


# breeze.

HYPERSPECTRAL IMAGING MADE EASY  
YOUR SOFTWARE SOLUTION



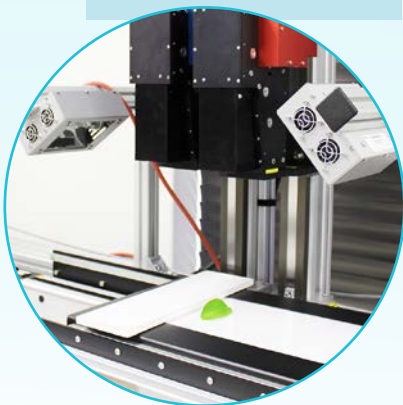
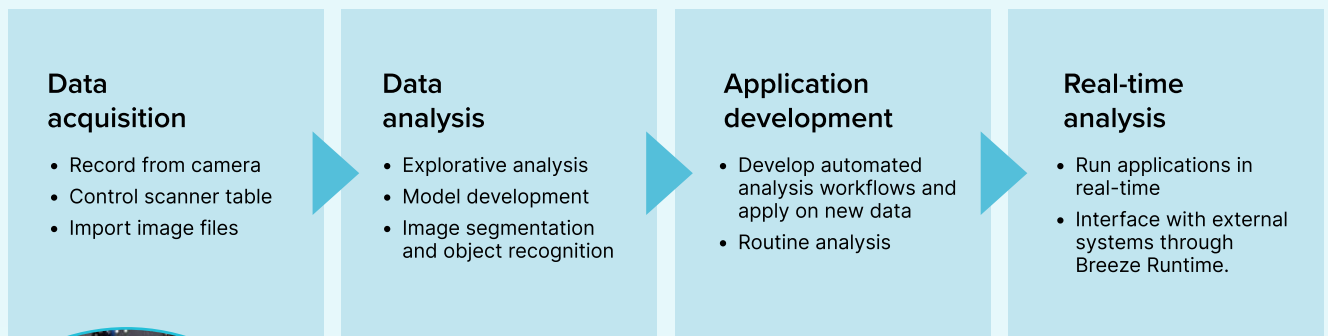
# breeze.

Hyperspectral imaging software

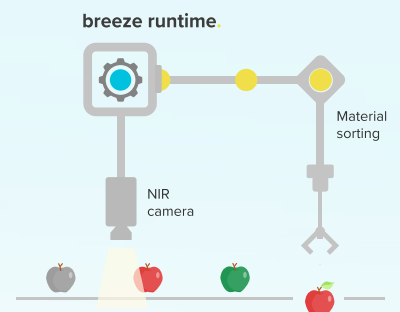
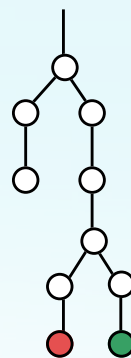
Breeze is Prediktera's premiere software solution enabling a wide range of hyperspectral imaging applications. It is used in research, application development, routine analysis and easily extends into real-time industrial analysis solutions.

- 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!



- Neural networks
- Chemometrics
- Machine learning
- Band math
- Object recognition



# Modelling and data analysis.

## Classification and Quantification

### Machine learning

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

### Chemometrics

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

### Spectral library analysis

- Constrained Spectral unmixing
- Spectral angle mapper

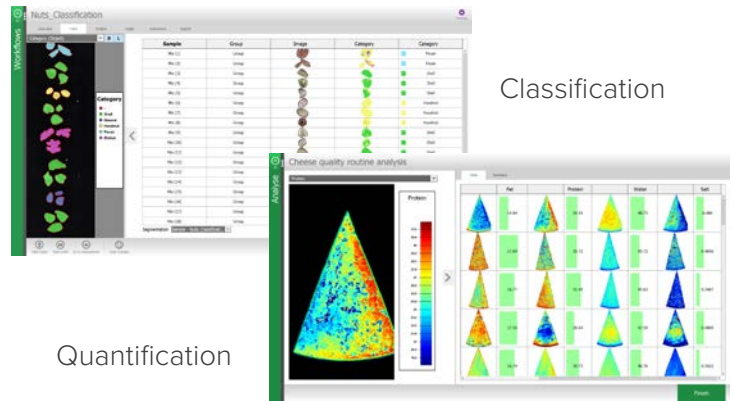
### Band math

- Vegetation Index

### Neural network ONNX models

- From external software (ex Pytorch)

### Python Interface



Classification

Quantification

## Object identification and image segmentation.

### Spectral analys

- 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 cameras.

## Sample movers.

<b>HySpex</b>	Cameras using HySpex Library SDK Baldur, Classic VNIR / SWIR, Mjolnir	Lab Rack, Field Scanner (Tripod and rotation stage)
<b>Specim</b>	Cameras using LUMO SDK SWIR, FX-10, FX-17, FX-50 and more	SisuChema, Lab-scanner, ViaSpec II
<b>inno-spec</b>	RedEye 1.7	Stepper table
<b>Resonon</b>	Pika L/XC2/UV, Pika IR (NIR320)/IR+/IR-L/IR-L+	
<b>Unispectral</b>	Monarch II	
<b>Basler</b>	Cameras using Basler Pylon SDK	

## 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). ARM CPU version available. 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 possibilities in your industry.”

– Andreas Vidman, CEO

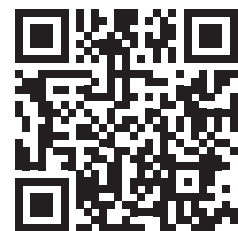
- Feasibility studies
- Application support
- Training
- Software support

## Contact us.

Download a free 30 day trial

Book a demonstration

[info@prediktera.se](mailto:info@prediktera.se)



[prediktera.com](http://prediktera.com)