





# Modelling and data analysis.

## Classification and Quantification

- Pixel and object analysis using available methods

## 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, SIMCA
- PCA, K-means, Gaussian mixture mode

## Spectral library analysis

- Constrained Spectral unmixing
- Spectral angle mapper

## Band math

- Vegetation Index

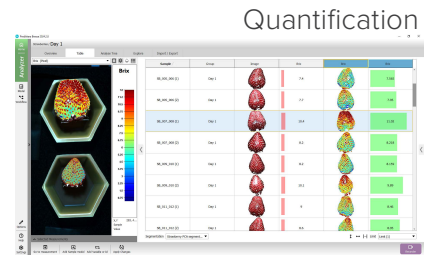
## Neural network ONNX models

- From external software (ex Pytorch)

## Python Interface

- Apply your own code for data processing

Classification



## Object identification and image segmentation.

### Spectral analysis

- Classification model (ML, chemometrics)
- Band math

### Shape based analysis

- Deep learning, YOLO v4/v5/v8, Faster R-CNN, FastSAM, Import ONNX files.

### 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	
<b>IDS</b>	All IDS GigE RGB cameras (e.g., uEye+)	
<b>HAIP</b>	BlackIndustry SWIR, NIR	
<b>Qtechnology</b>	GSENSE sensor, C-series	

BUFMUIFSFIUUTIFM\$FUFSBDPCSFFFTPSUFIBSBSF

## Supported file formats

Image files: ENVI, raw, mat, hdf, hypspec, pam, sc, sac, hips, jpg, png, tiff, and more. Other data: asd, csv, txt, xls, spc, mcf, mat, ram, dat, spf, and more.

## System requirements

- OS: Windows® (10 or later), Linux (Ubuntu 18 or later) and MacOS (11 or later).
- CPU: Minimum intel i7, 8 core recommended
- RAM: Minimum 32 GB recommended
- Mac and Linux requires separate installation of 64bit Java Runtime v20 or later

# 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

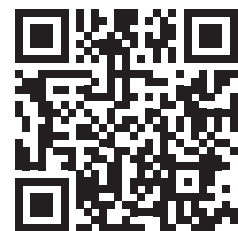
- Feasibility studies
- Application support
- Training
- Software support

## Contact us.

Download a free 30 day trial

Book a demonstration

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



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