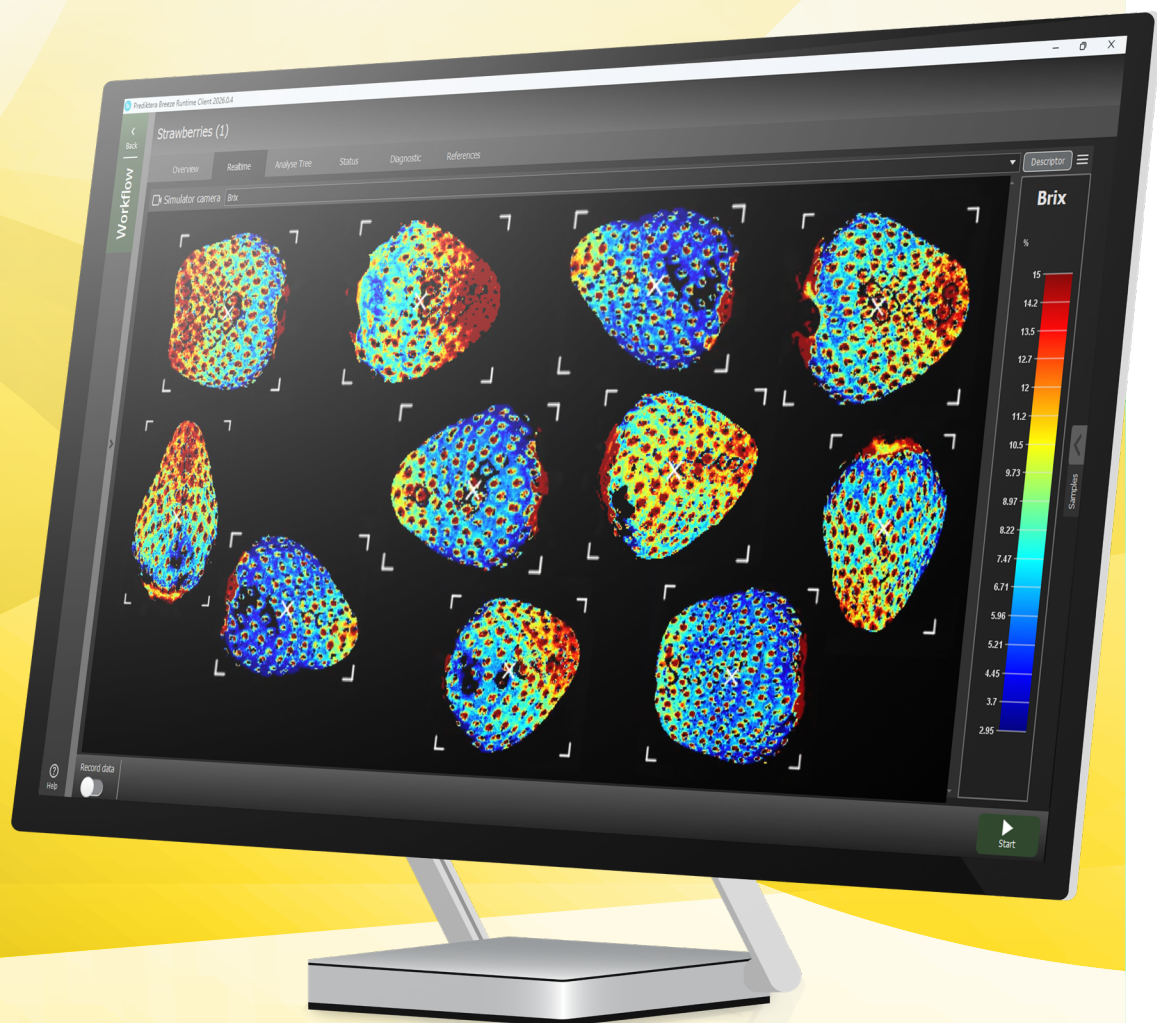


# breeze.

## For Industry

INTEGRATED REALTIME SOLUTIONS  
FOR HYPERSPECTRAL IMAGING



# breeze.

● Runtime API

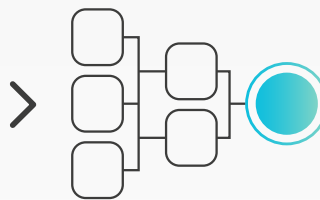
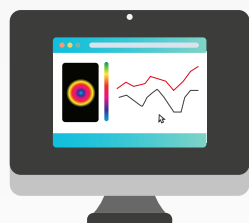
## Hyperspectral imaging for industrial applications

Breeze software suite enables fast and easy industrial integration of hyperspectral imaging into your processes. The Breeze software is used to develop your hyperspectral imaging applications. The data processing workflow/recipe is run in real time and integrated into external systems using the Runtime API. It can be used for quantification, material classification, and object identification of materials, enabling sorting, monitoring, and quality control at high speeds.

### breeze.

#### APPLICATION DEVELOPMENT

Modeling and data analysis

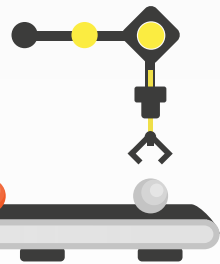
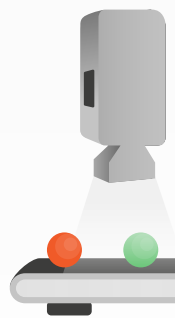


Breeze is used for data acquisition and for easily creating applications based on your data.

● Runtime API

#### PROCESS ANALYSIS

Realtime analysis for sorting and monitoring



Hyperspectral Camera

Runtime API

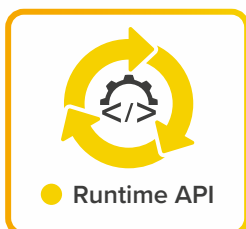
Machine Control

## Breeze Runtime API

- ✓ Flexible, fast and robust solution for integration
- ✓ Communication over TCP/IP in JSON format
- ✓ C# and Python
- ✓ Client program with simple GUI
- ✓ Runs on Windows and Linux on standard Industry PCs



CAMERA INTERFACE



COMMANDS



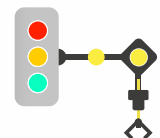
DATA STREAM



EVENTS



CUSTOMER DEVELOPED APPLICATION



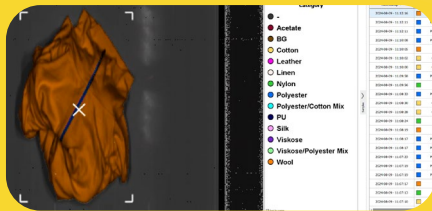
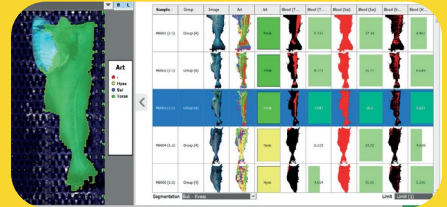
MACHINE CONTROL



## Use Case: Real-time food quality control

At **Maritech**, a hyperspectral VNIR camera is combined with Breeze Runtime API that enables real-time classification and measuring of quality parameters of fish in their systems.

Through the Breeze suite, advanced applications become easy to develop and implement, making it possible to quickly add new quality parameters to the analysis. This accelerates time-to-market making it possible to quickly solve customers' problems, with a flexible solution that delivers rich, actionable insights.



## Use case: Textile Sorting

At **Norsk Tekstilgjenvinning AS (NTG)**, a hyperspectral eSWIR camera combined with Breeze Runtime API, analyzes textiles based on their spectral signatures to differentiate different fiber compositions and enable automated sorting.

Our flexible Breeze suite enabled NTG to quickly implement and accurately classify clothes at high speeds using machine learning models developed in Breeze, resulting in more efficient and reliable processing.

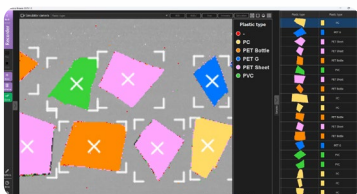


## A complete toolbox.

The powerful and flexible analysis engine enables a wide range of applications such as sorting, process monitoring, quality analysis and detection of foreign objects.

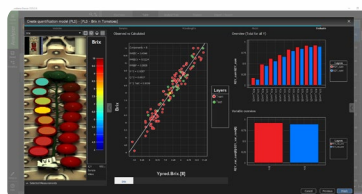
### Classification

Classify materials based on spectral analysis on pixel and object level.



### Quantification

Measure the chemical content on pixel and object levels.



### Object based analysis

Identify objects and analyse distribution, shape and position.



### Supported Cameras

- HySpex
- Resonon
- IDS
- Specim
- Unispectral
- HAIP
- inno-spec
- Basler
- Qtechnology



### System requirements:

OS: Windows® (Latest supported Windows version), Linux (Ubuntu 18 or later).  
CPU: High performance Intel CPU, 8 core or more recommended. RAM: Minimum 32 GB recommended.

For the latest information on supported cameras, file formats, and system requirements, visit our website.



## Breeze Suite

**A complete software solution for research, analysis, and industrial applications.**

Breeze Suite is a flexible software platform for research, application development, routine analysis, and real-time industrial solutions. It includes the software Breeze and optional add-on modules for industrial and geological applications.

### ● Runtime API Module

Enables integration with industrial systems.

### ● Geological Analysis Module

Tools for mineral classification and analysis.

### ● Core Scanning Module

Special features for drill core scanning.

## A Trusted Partner In Hyperspectral Imaging

Prediktera develops user-friendly software for hyperspectral imaging, supporting both research and industrial applications. With over 10 years of expertise in data and image analysis, we help customers improve efficiency when working with hyperspectral data. Founded 2015 in Umeå, Sweden, Prediktera is a subsidiary of Norsk Elektro Optikk (NEO) and serves universities, research institutes, and companies worldwide.

## We help you succeed!

- Software solutions
- Training
- Application & integration support
- Feasibility studies



## Contact us

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