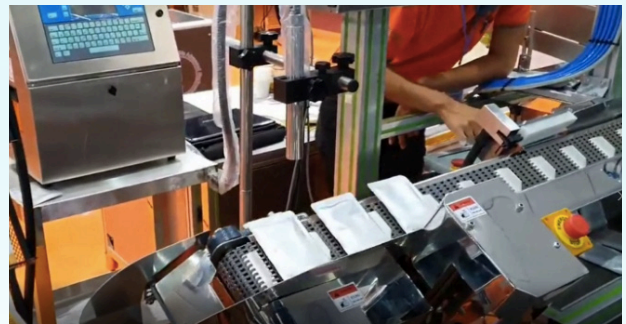


# Packaging inspection using hyperspectral camera technology

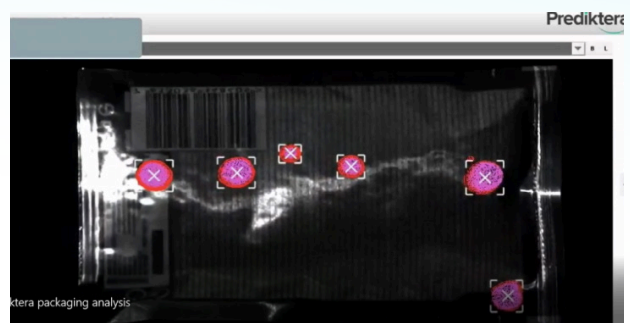
**Challenge.** Properly sealed packaging is important to avoid contamination and to ensure shelf life of the product. Today, visual/manual inspection or traditional color camera technology are sometimes being used to try and ensure the quality of the packaging. The problem with these current methods is that sometimes they fail to detect leaks and holes in the packaging.

**Our solution.** By applying a hyperspectral camera (that can see visible and near infrared light) in-line in the production process, the unique spectral fingerprint of the material in the process can be analyzed at high speeds and classified based on its chemical composition.

**Benefits.** Using hyperspectral image analysis, leaks and holes in the packaging that are hard to identify using traditional color camera technology or the naked eye, can be detected. This solution can be integrated into the process, fully automating the quality inspection of the process. The method is fast for processes with high through-put, is non-destructive, no radiation and completely harmless to staff.



Detection of leaks and holes in plastic pouch for cat food.



Detected leakage is visualized in red.

## A complete toolbox.

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

The suite takes you from idea to solution by creating value in R&D, application development and in online processes.

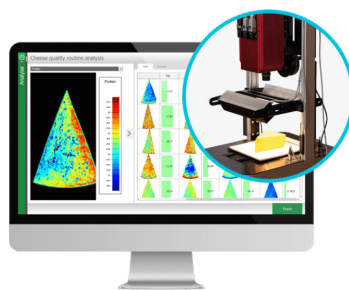
### evince.

Exploratory analysis for R&D applications.



### breeze.

Modeling and routine analysis for application development or in lab.



### breeze runtime.

Realtime analysis for sorting and monitoring online in process.

