

# sherlock observer

„WE catch THEM ALL“

## Chemical Imaging Technology

A highly innovative technology enables monitoring of food according to its chemical structure.

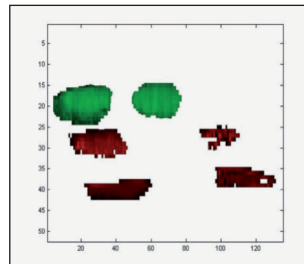
Based on near infrared spectroscopy, Sherlock Observer is capable of permanently controlling food processes. The spectral data allows the measurement of chemical structure of the objects and to visualise it in colours. This is why Sherlock Observer guarantees high-precision in-line process control or final inspection of goods just before packing. Quality related parameters can be recorded, processed and linked to the production batches. For example online measuring of solid contents or measurement of peel residues after the steam peeler in potato lines to optimise yield.

Sherlock Observer's prevention of foreign bodies is extremely powerful. All kinds of foreign bodies, such as residues of plastics, wood, cardboard, plants vine/roots or animals, which do not correspond to the spectral range of the conforming product, will be detected by Sherlock Observer. Differences in colour, shape, surface or density are not relevant. In case of foreign bodies, Sherlock Observer will deliver a signal, which can be used to output alarms and stop processes or automatically reject parts of the product.

technology inside .....



## Fields of application:



### Detection of foreign bodies in frozen fruits:

Left: two blackberries, volcanic stone, metal, cardboard and glass, partially difficult to distinguish visually.

Right: Chemical Image of the same objects, blackberries in green, foreign bodies, which are spectrally different, in red.

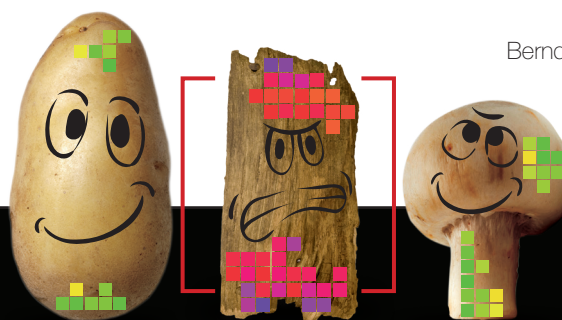


### Quality monitoring of fruit processing:

The core of the pineapple is partially ligneous and does not conform to the quality requirements. This part is identified in the chemical image in red. The remaining part of the core can be recorded permanently while the pineapple is being processed. The values can be linked to production batches.



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