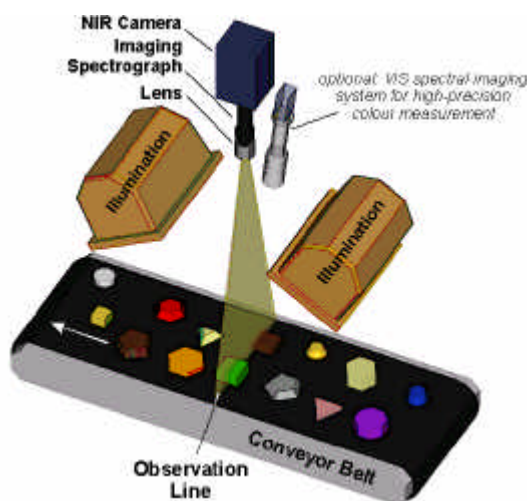


SPECTRAL IMAGING (SI) – for Complete Classification

Spectral imaging opens up whole new opportunities in non-contact material identification. It is not only contact-free but also enables the colour, chemical and geometrical properties of an object all to be detected simultaneously in real time. Here at CTR, we are working on combining classic imaging with the potential of spectroscopy with a view to industrial application. The technology is ideal for improving quality control and making it more consistent. We have therefore started developing products using the spectral imaging system (SI).



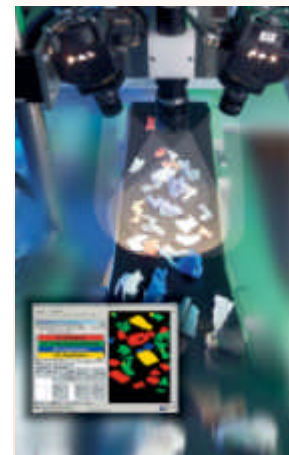
CTR's ongoing projects for industrial application areas:

- recycling technology
- food control
- medical engineering.

What all of them have in common is the basic hardware design and the modular data acquisition and evaluation algorithms used. The open architecture and standardized interfaces make the product versatile enough for integration in a wide range of existing customer systems.

SI in the Recycling Industry

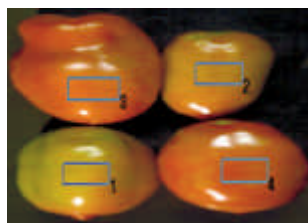
CTR develop the "SPECTROSORT" system. The SPECTROSORT system enables a reliable, economic and automatic classification and sorting of waste materials such as plastics and cardboard. The sorted materials can then be fed into the appropriate recycling systems in the sure knowledge that no other materials are mixed in with them. So far four paper sorting systems have been built and put into operation each with a throughput of 6 tonnes/hour.



Classification of waste paper or plastics

SI in the Food Industry

We are currently working on a system for the food industry which can assess the quality of food based on optical and chemical criteria. The system should be integrated directly in the production process and control food automatically.



Classification of tomatos

SI in Medical Engineering

The task in the medical engineering sector involves anomaly diagnostics. We are working in close cooperation with a well-known precision engineering company and a University Hospital, on new analysis methods to back-up doctors' diagnoses. The optical method is non-invasive and completely free of pain for the patient. The evaluation result is instantly available and can help to prevent expansive excisions.



Evaluation of skin lesions

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