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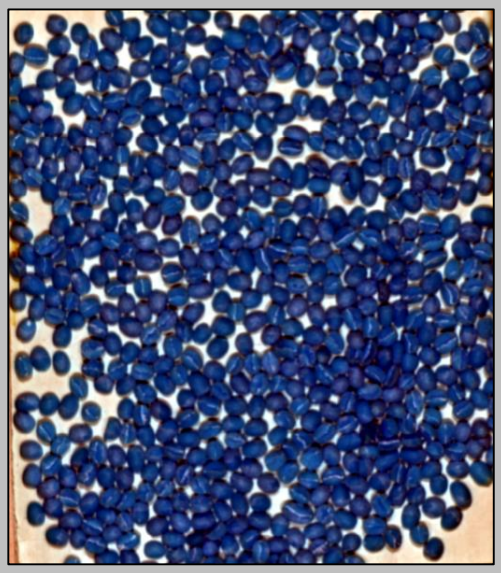
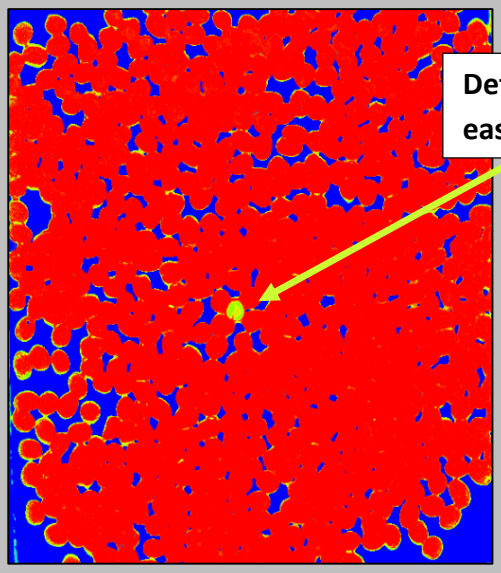
Hyperspectral Machine Vision





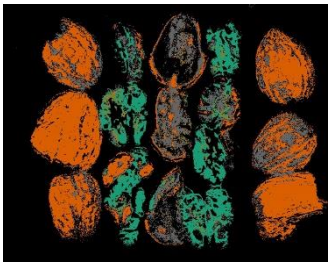
Defect not visible to the human eye,
easily seen with hyperspectral classification.

Hyperspectral machine vision for automated sorting and quality control.

Resonon's hyperspectral machine vision systems detect very small differences in similarly colored materials, enabling greater sensitivity than conventional imaging technologies.

Applications:

- Food
- Raw materials
- Waste materials
- Finished goods



System components:

- Hyperspectral imaging camera
- Lighting
- Real-time results
- Touch-screen user interface
- Integration and training
- Expert support

Systems are customized for each installation. Contact us to discuss your unique requirements.

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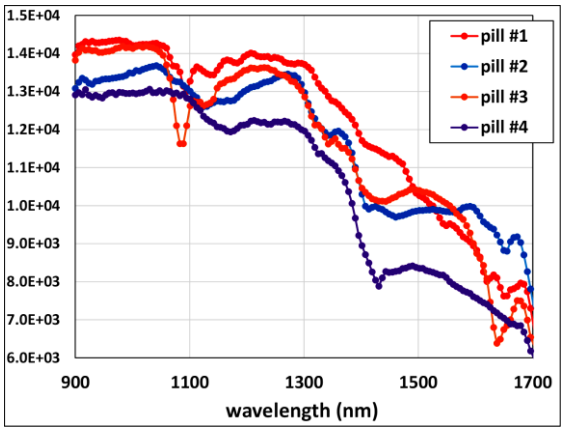
Feasibility & Engineering

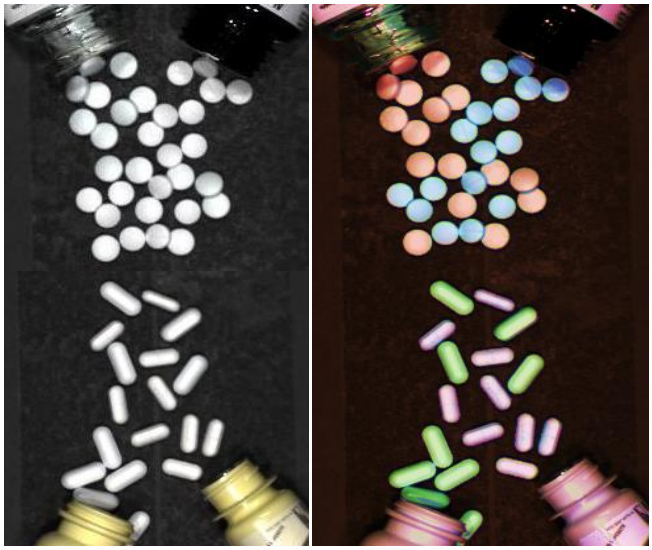
Resonon engineers will work with you to determine the feasibility of hyperspectral technology for your application.

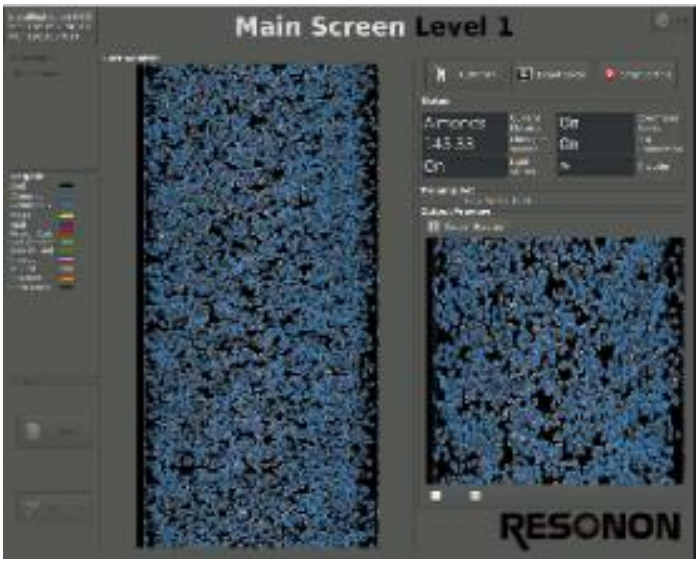


How it works

Hyperspectral imaging provides a detailed spectrum for each pixel, enabling real-time machine learning algorithms to identify subtle defects and anomalies, including those the human eye cannot see.

Resonon's hyperspectral vision software analyzes hyperspectral information in real-time and provides commands to down-stream actuators and robots.





Integration and Support

Resonon's engineers work with end users to develop customized hardware and software solutions.

Our expert support staff is ready to help you increase quality and profitability. We strive to provide exceptional customer service.

About Resonon

Founded in 2002, Resonon leads the industry in designing and manufacturing of hyperspectral imaging systems for research and industrial applications. Resonon provides hyperspectral imaging systems and custom solutions for complex hyperspectral and optical applications. Our high-precision hyperspectral imaging cameras are affordable, lightweight, easy to use, and have excellent image quality.