



RAW MATERIAL INSPECTION LAB MODEL (RMI-LAB)

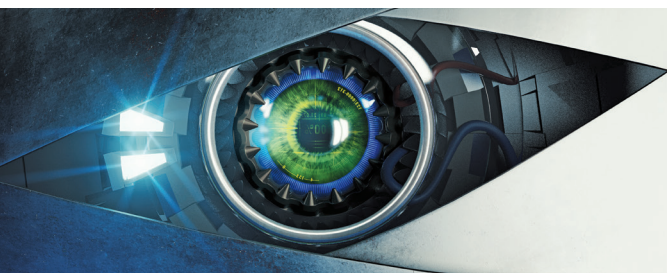
Inspect your plastic
pellets before it's
too late

With its new RMI Lab system, inspec.tech brings its industry-proven capabilities in plastic pellets inspection to the laboratory.

Whether you are manufacturing plastic pellets or using plastic pellets for your production, the RMI-Lab system allows you to inspect their visual quality in unprecedented speed and reliability that, detecting material failure issues before they damage the final product.

The system integrates all the visual inspection tasks in a single unit, detecting contamination, color variations and size/shape deviations.

High inspection throughput and ease of use allows for significantly larger sample-sizes to be scanned much faster, improving data consistency and reliability, while shortening the inspection latency.



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Main Features

- **Comprehensive inspection capabilities** - contamination, color, size & shape analysis - all in one device.
- **High throughput** - inspec.tech's RMI Lab model allows testing your material at an adjustable throughput - between 1.5 and 30 kg/minute!, allowing significantly larger samples to be processed at shorter time intervals.
- **Advanced analytical interface** - The system incorporates advanced graphical visualization, reporting and analytical tools, including histograms presenting contamination size distributions, color deviation distribution and pellet size & shape distributions. This allows the user to compare the quality of the inspected material to previously inspected materials or gold standards.
- **No duplicates** - The system's design ensures that each contamination will be counted only once, overcoming common problems in lab devices.
- **Easy data export and integration** - real-time data transfer capabilities linking lab results to production and quality control systems. The data can be easily exported to elaborate interactive Excel files, enabling customers to create customizable reports.
- **Pellets counting** - allows the data to be normalized (similar to PPM), regardless of the sample-size and the inspection throughput.
- **Customizable configuration** - The resolution of the system, camera types and light sources in use can be customized according to the customer's needs, providing them with a tailor-made, cost-effective solution.
- **Optional pellet sorting** - An optional sorting mechanism enables the system to reject defective pellets for further analysis, or be used as an optical sorter for material recovery tasks.
- **Versatile implementation options**
 - Sample testing and analysis
 - High throughput incoming material inspection and scanning
 - Material recovery with optical sorter functionality

What We Detect

■ CONTAMINATION



■ COLOR SHIFTING



■ SHAPE/SIZE DEVIATION



Technical Specifications



■ Detected Flaws	Contamination, color shift, size/shape deviations
■ Illumination	VIS, Optional UV, Near IR
■ Inspection rate	1.5 – 30 kg per minute
■ Material feeding options	Standard hopper up to 8kg (may be increased upon request) Continuous material stream
■ Inspection Resolution	150,80,70,50,37 micron/pixel and higher upon request