# We create data, so you can control your process.





Drawing upon more than two decades of thermal imaging inspection experience, our solutions provide non-invasive, 100% in-line inspection combined with production-optimizing data collection and analysis.

Real-time sealing data allows for:



Enhanced predictive maintenance



Reduced labor investments

Minimized materials and product waste



### Seamless Integration that Protects Brand Reputation

Engineered for 100% inline installation, the plug-and-play Process Analytical Monitoring system is designed to integrate seamlessly into existing production lines. Quick to set up and easy to operate, it immediately begins to enhance quality control and operational efficiency. The hardware agnostic, easily maneuverable system profoundly decreases the risk of defective reputation-damaging products reaching the public. The result is safeguarded brand integrity and enhanced customer trust.





#### Say Goodbye to Sampling

Yoran Imaging's novel Process Analytical Monitoring system replaces manual sampling with automatic 100% product inspection – a cost-effective, comprehensive and contact-free quality control upgrade. At the same time, the system provides unprecedented levels of packaging line insight that can be used for ongoing production improvements and increased output. In doing so, the technology transcends manual limitations, matching the pace of live operations to ensure continuous quality and efficiency.

#### Process Analytical Monitoring (PAM) Moisture Control

Yoran's inline, 100% monitoring system yields immediate and substantial upgrades to both inspection comprehensiveness and, by eliminating the need for inspection-related line slowdowns and stoppages, production output. For companies already using inline inspection via spectroscopy, PAM Moisture Control provides a significantly simpler and more intuitive system for detecting package moisture content, as well as enhanced process control that can virtually eliminate unscheduled line downtime.





#### Induction Seal Inspection & Analysis

With Yoran's revolutionary thermal imaging inspection solution, companies across the globe can realize a quantum leap in the inspection of induction seals. The system automatically reads and analyzes the inherent heat signature of the cap's liner (which is amplified directly after induction), providing immediate quality control data to the operator. The system is compatible with most bottle and cap sizes/types and can be seamlessly integrated into almost any packaging line. Induction seal inspection and analysis detects through the closed cap.

## Yoran Imaging utilizes award-winning breakthrough thermal imaging technology to revolutionize the filling and heat-sealing process on packaging lines in a range of consumer facing industries.

#### **Autonomous Production Lines**

Replace manual or periodic checks with automatic inspection of every single heat-sealed product before it leaves the production line.

#### Harness the Power of Data

Analyze your process. Get real-time alerts and regular trend reports to transform your filling & sealing data into manageable and actionable steps, preventing any shortor long-term issues with your products and machinery.

#### Increase Productivity

Utilize data capture and dashboard-ready metrics to continually improve facets of production and take preemptive measures to minimize machine downtime.

#### Enhance Sustainability

Reduce product and packaging waste by preventing defective products from being produced. Utilize designed-for-recycle sustainable packaging materials, which are typically vulnerable to manual sampling methods.

#### Protect Brand Reputation

Reap the rewards – Gain a comprehensive understanding of your filling & sealing process to enhance quality control and protect your brand reputation.

## Waste Reduction & Sustainability Made Simple

Yoran Imaging's patented production improvement technology prevents millions of defective products from being produced, saving customers tens of millions of dollars in potential financial loss via reduced product and packaging waste. Crucially, the system also expedites the incorporation of more sustainable packaging materials by accelerating best practices development and process validation for recyclable heat-sealable substrates, including polyethylene (PE) and polypropylene (PP). It achieves this by addressing a noted challenge for transitioning to more sustainable substrates: narrower heat-sealing tolerances. Discovering and maintaining the best-possible heat seal temperatures for various recyclable materials – which are often thinner and almost always more finicky than legacy substrates – has historically been a time-consuming, trial-and-error endeavor. By enlightening the overall process, the system gives production professionals the information needed to speedily incorporate more sustainable packaging materials.

Incorporate seamless, in-line thermal imaging inspection and data capture into your packaging equipment for continuous production improvements, and realize measurable ROI.



#### User-Friendly Data will Increase Productivity

User-friendly data alerts operators when preset quality or OEM parameters are degrading, providing guardrails and guideposts that minimize machine downtime through informed preemptive measures. This "uptime is money" benefit has led several major manufacturers to adopt the technology. To date, our systems have scanned over 1.7 billion products, analyzing production processes and rectifying defects in real time to guarantee that only good products make it to market.



#### Analytical Monitoring Yields Positive ROI

Deploying the Process Analytical Monitoring system yields positive ROI within just 3.5 months, transforming production efficiency, enhancing cost management, and saving an estimated \$1.7M in product costs every year.

Discover how this award-winning technology can deliver instant ROI for your operations.



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