



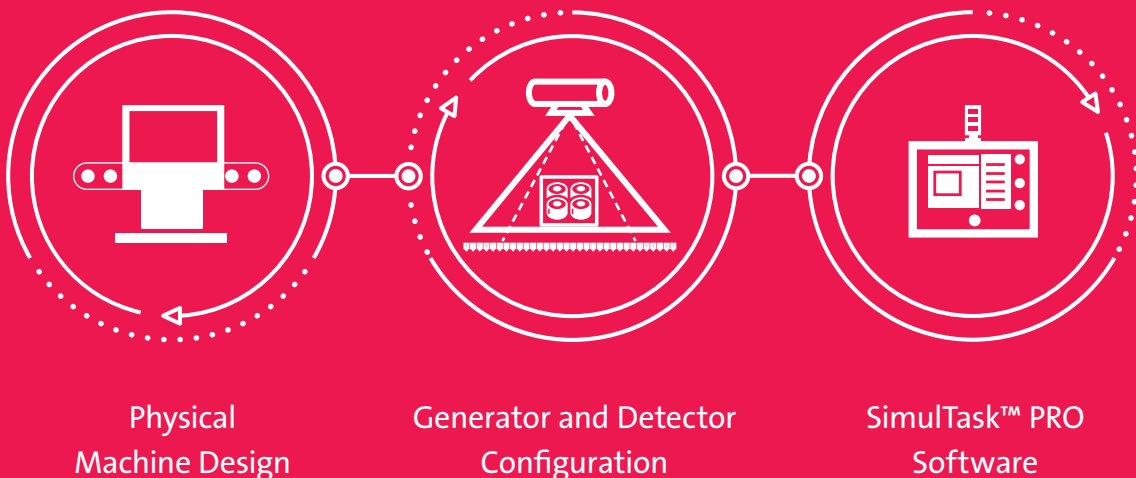
The Superior Intelligence of **SimulTask™ PRO**

Superior intelligence. Superior results.

You can expect more with SimulTask™ PRO, Eagle's advanced image analysis software. At Eagle we are committed to developing intelligent x-ray analysis solutions that provide superior results. SimulTask™ PRO takes the guesswork out of x-ray imaging, so manufacturers can focus on safety, quality, operational efficiency and profitability.

SimulTask™ PRO is a customizable software that can be tailored to your specific product applications with the flexibility to evolve with the ongoing demands manufacturers face.

Combining best-in-class physical machine design with multiple generator and detector configurations, and SimulTask™ PRO, you get the best solution with superior inspection results for your production line.





Three system components work together to assure every product is **compliant and contaminant free.**

1. Physical machine design

Eagle's **robust machines** are built for challenging environments and stringent production line conditions. The sanitary and hygienic design features ensure your line meets the highest standards of safety and compliance, including:

- **Hygienic construction** – contour and open surfaces
- **Fast sanitation** – unobstructed sightlines
- **Maintenance friendly** – maximizes machine uptime

2. Generator and detector configuration

Imaging technology should adapt to a variety of production line requirements. Eagle offers multiple detector configurations and sizes with diode options to fit your specific needs and application requirements. Eagle's advanced processing algorithms deliver outstanding clarity and detail where it matters most. Depending on the possible contaminants, product type, packaging, and production line speed, Eagle offers both single and dual energy x-ray inspection technology. Dual energy uses two energy layers to discriminate between high and low channel x-rays. Eagle offers MDX, as well as our breakthrough **PXT™**—a dual energy photon-counting technology that is setting a new standard in contaminant detection.

3. SimulTask™ PRO software

Eagle's proprietary x-ray imaging analysis software is the most intuitive and intelligent technology in the industry. **SimulTask™ PRO** is an advanced platform that captures data from multiple diodes and harnesses algorithms to interpret and deliver the most exceptional image, despite challenging production line conditions – all within a tenth of a second. With SimulTask™ PRO, your images will be the highest resolution, consistently delivering the detail you need.

Improve your results with the superior inspection analysis and multitasking capabilities of SimulTask™ PRO.



Enhanced performance: [SimulTask™ PRO](#) allows more image analysis operators over any other software on the market, and simultaneous processing of contaminant detection, weight, fill level inspection, package integrity, and component count. It can even process and analyze parallel images without compromising performance.



Advanced traceability: SimulTask™ PRO offers full image storage, retrieval and review to improve operational efficiencies and help you [maintain compliance](#). You'll get trend reports on information and statistics, letting you make adjustments based on history to keep your lines productive.

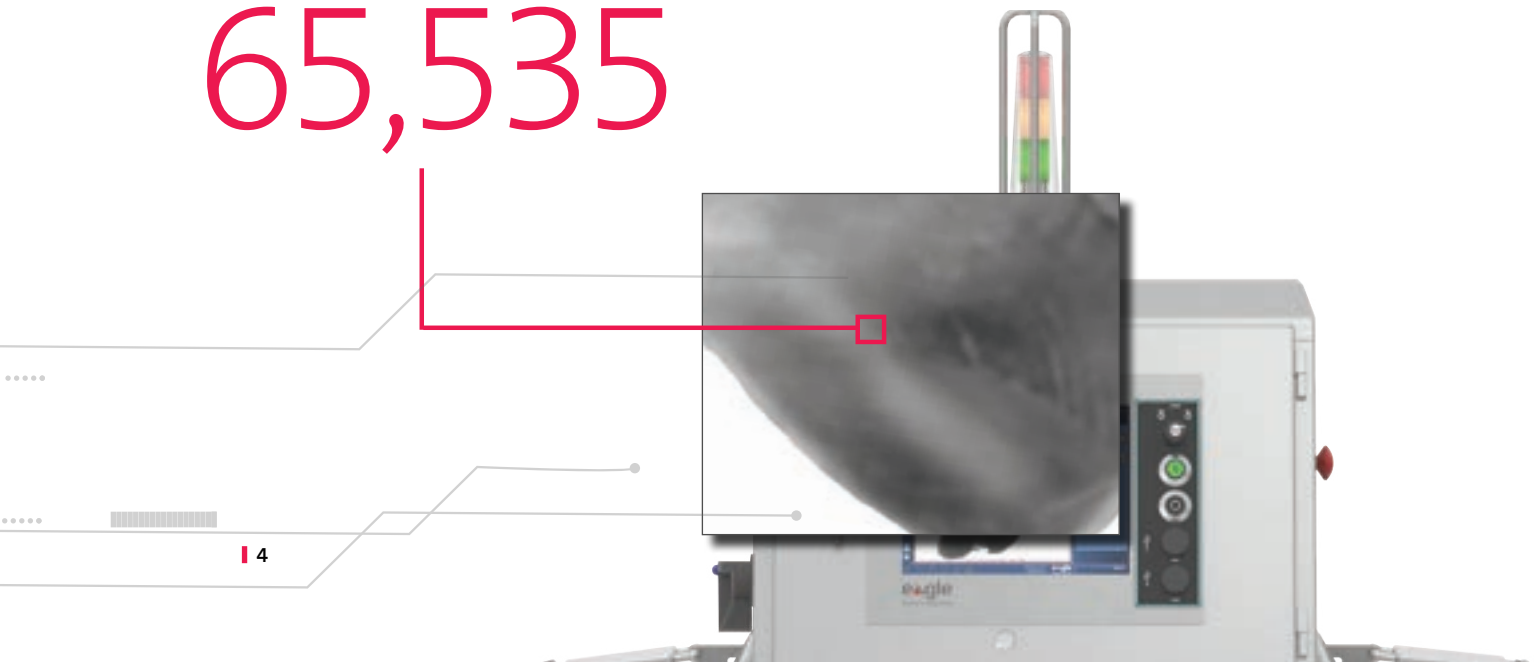


Higher throughput and productivity: The multilane capabilities and dynamic PRODUCT SWITCH™ features of SimulTask™ PRO allow manufacturers the flexibility to produce a multitude of products on one line with one machine, which means you can do more with less. SimulTask™ PRO can simultaneously process several different products with different specifications for weight, contaminant detection and more. SimulTask™ PRO can be programmed with different algorithms to identify different products based on characteristics. These unmatched capabilities will lead to improved line productivity.



Superior detail in every x-ray image: SimulTask™ PRO advanced image processing algorithms provide high resolution, exceptional clarity, and extraordinary detail. With the **highest greyscale range of 65,535 values**, you will see deeper contrast and subtle differences from SimulTask™ PRO, offering image processing that is unmatched in the industry.

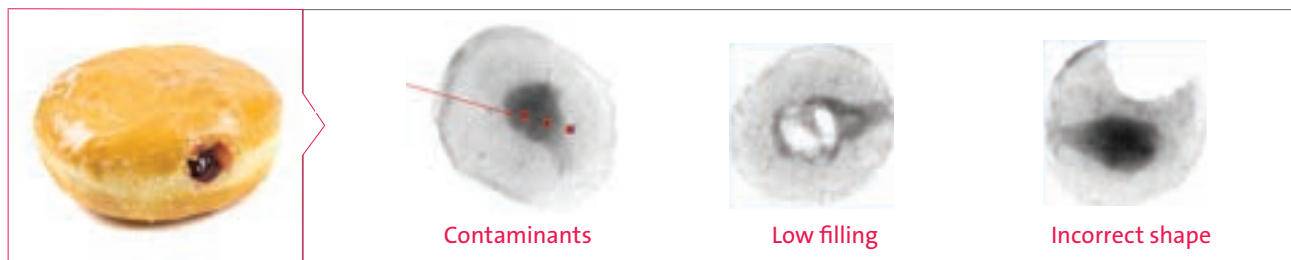
65,535



The following application challenges demonstrate a few of the **wide-ranging capabilities** of SimulTask™ PRO.

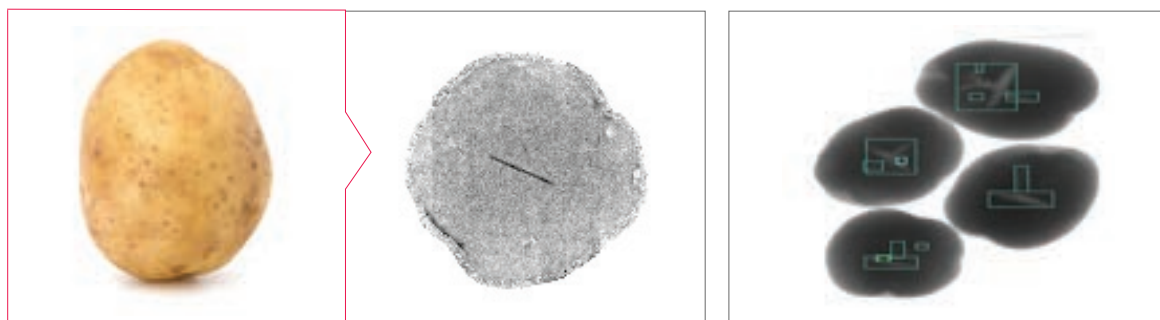
Manufacturers face unique application challenges with many shapes, sizes, densities, and packaging for a variety of products. Eagle is advancing inspection technology all along the production line to help manufacturers deliver the safest, highest quality products while improving operational efficiencies.

Application 1: Checking for shape and filling in doughnuts



In addition to detecting a wide range of contaminants (made of stainless steel, ferrous and non-ferrous materials), SimulTask™ PRO can simultaneously scan inside a doughnut to see if the correct level of jam filling is present, as well as check for the correct roundness or shape.

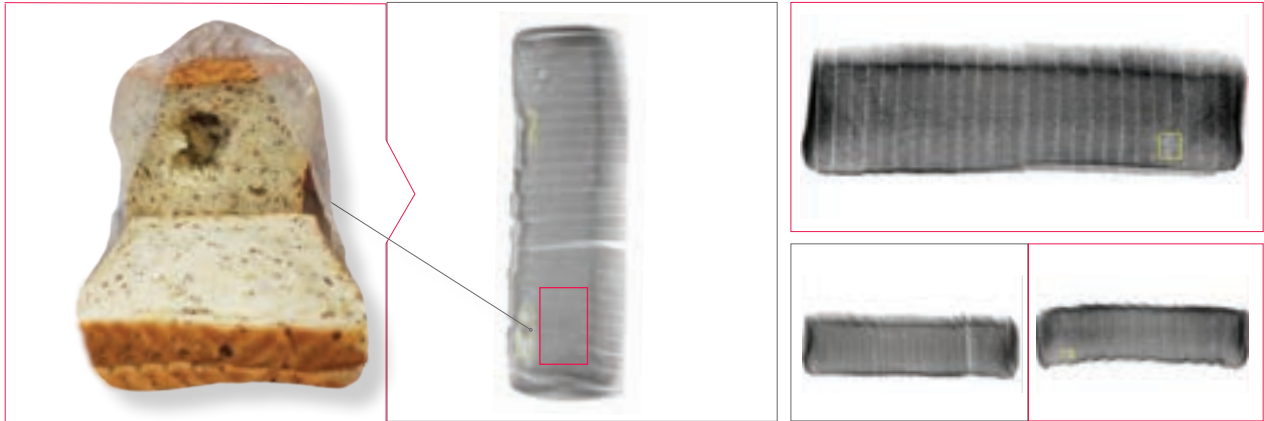
Application 2: Bulk potatoes: detecting contaminants and hollow hearts



SimulTask™ PRO inspects bulk potatoes for common contaminants, such as rocks and mineral stones, and can also detect unusual foreign bodies such as needles within potatoes when tampering has occurred. The versatility of the technology can also detect imperfections within the potato, such as hollow hearts, ensuring every potato packaged is a perfect size and shape.

Application capabilities samples (cont.)

Application 3: Identifying voids in bread loaves



A special algorithm has been designed for SimulTask™ PRO to detect voids greater than 20mm, including the spaces in between the pre-sliced [bread loaves](#). Eagle's intelligent image processing software can simultaneously detect foreign body contaminants and conduct product quality checks, in single or multi-lane operations, and reject bread loaves that do not comply with specifications.

Application 4: Fill level and contaminants in yogurt



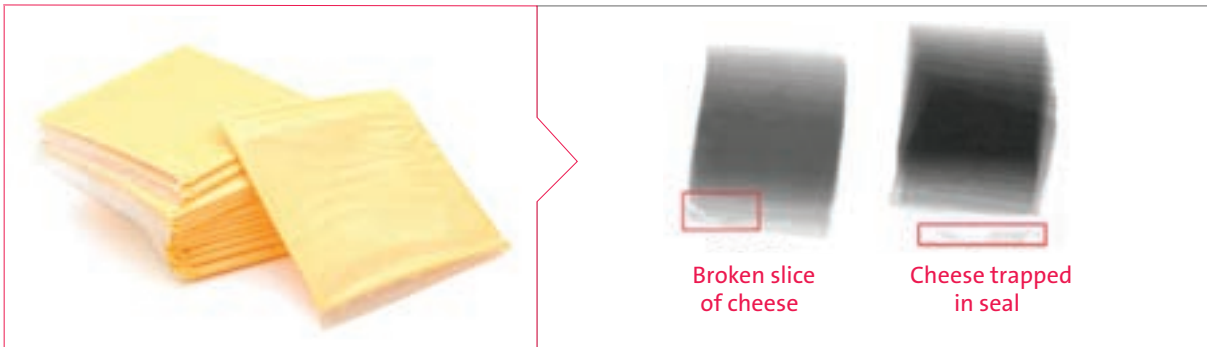
SimulTask™ PRO ensures proper fill level of [yogurts](#) inspected individually or in cases. The intelligent software can simultaneously analyze products with different components or ingredients (for example, yogurts with separated compartment for cereals).

Application 5: Glass jars of jelly



The Eagle QuadView with SimulTask™ PRO imaging analysis software is the most advanced solution to inspect glass jars of marmalades or jelly. The four-view detection coverage provides full inspection eliminating blind spots at the bottom or top of the containers. Inline product integrity checks are performed simultaneously ensuring fill level, mass measurement, weight, and missing items like lids.

Application 6: Missing or broken slices in packaged cheese

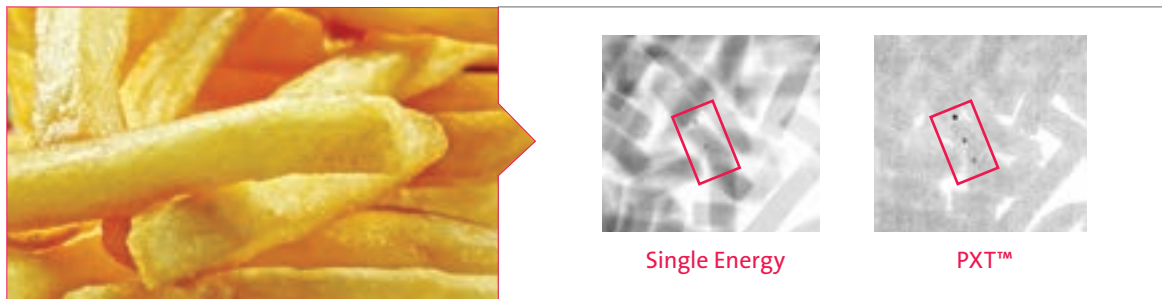


By setting different operators in SimulTask™ PRO, sliced cheese manufacturers can simultaneously inspect for broken slices or bits trapped in seal as well as ensuring accurate weighing.

Dynamic Duo of SimulTask™ PRO and PXT™ dual energy photon-counting detector for enhanced x-ray inspection

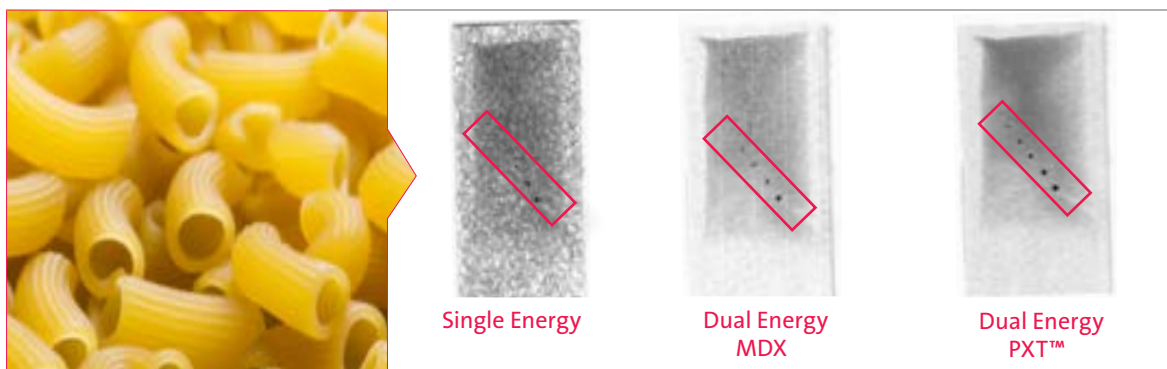
Eagle's SimulTask™ PRO image analysis software, paired with our PXT™ dual energy photon-counting technology, forms the ultimate **dynamic duo** in product inspection. Together, these advanced x-ray technologies capture higher resolution images and perform real-time analysis, within one-tenth of a second, setting a **new standard in contaminant detection**.

PXT™ Application 1: Enhanced detection in bag of french fries



Eagle tests every application with customer-supplied contaminants, as well as our standard test card contaminants, to ensure products are safe from foreign bodies. The Dynamic Duo of SimulTask™ PRO & PXT™ provides much higher resolution images in busy images over single energy, as shown above.

PXT™ Application 2: Superior inspection of packaged macaroni and cheese



Eagle combines the powerful imaging of PXT™ & SimulTask™ PRO technologies to inspect challenging products like boxes of macaroni and cheese. The aluminum contaminant is crystal clear with the PXT™ dual energy image. Our systems can also provide additional quality checks like identifying if a cheese packet is missing from a box.



SimulTask™ PRO summary

Eagle's proprietary SimulTask™ PRO software offers the highest greyscale on the market of 65,535 values, and the latest processing software algorithms for superior contaminant detection. Because today's bakery and snack manufacturers are increasingly doing more with less, the software enables parallel image analysis processing and can be used in multilane settings. With built in versatility, the software can be customized for each specific product and application in order to perform other tasks that may be needed for producing the highest quality products.

Most importantly, in a market where safety and compliance are at the forefront and greater information and traceability is imperative, SimulTask™ PRO meets that challenge with full image storage, retrieval and review.

SimulTask™ PRO. Where superior intelligence meets superior results.

Eagle is committed to advancing technology.

Eagle's advanced inspection systems can deliver product safety, and our cost-effective solutions will enhance productivity while improving your bottom line. Ensure customer and brand protection when you **inspect more, and expect more, with Eagle.**

Eagle Product Inspection

1571 Northpointe Parkway,
Lutz, FL 33558, USA
+1-877-379-1670 (telephone)
+1-813-543-2049 (fax)

eaglesales@eaglepi.com
www.eaglepi.com

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