

Food solution

# AI guided Xpert software

## Protect food safety and improve product integrity



Protect food safety and improve quality with the Thermo Scientific™ Xpert™ C and Xpert C HD X-ray Inspection Systems. These high performance systems perform X-ray contaminant detection and product inspection for bags, boxes, and other flat packages, quickly identifying contaminants and quality defects. Xpert Conveyor systems meet HACCP and retailer food safety and quality requirements, can be configured for any application or challenging factory environment, and include powerful software to eliminate false rejects.

### Product

Available on Xpert C400, C600, C800, and HD models.



Xpert C X-ray System

Our Xpert Conveyor systems now have innovative Artificial Intelligence, or AI, which in manufacturing refers to the application of advanced technologies and algorithms to enhance various aspects of the manufacturing process. AI in manufacturing aims to optimize production, improve efficiency, reduce costs, and enhance product quality.

### Application solution

- **Quality control:** AI algorithms can automatically analyze X-ray images, allowing for faster and more precise identification of anomalies, defects, or prohibited items. This reduces the need for manual inspection and minimizes human error.
- **Increased throughput:** AI-powered X-ray inspection systems can process images rapidly, allowing for higher throughput rates. This is particularly beneficial in high-volume production lines where quick and efficient inspection is essential.
- **Cost savings:** By automating and streamlining the inspection process, AI helps reduce labor costs and increase operational efficiency. The ability to detect anomalies accurately also helps prevent costly errors.
- **Brand protection:** AI software can be effectively utilized alongside contaminant detection and product verification software.

### Additional applications

Food and beverage, pharmaceutical, and personal care products.

Learn how AI was utilized for two manufacturers in our application note [“AI in food production”](#)

Learn more at [thermofisher.com/productinspection](https://thermofisher.com/productinspection)

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