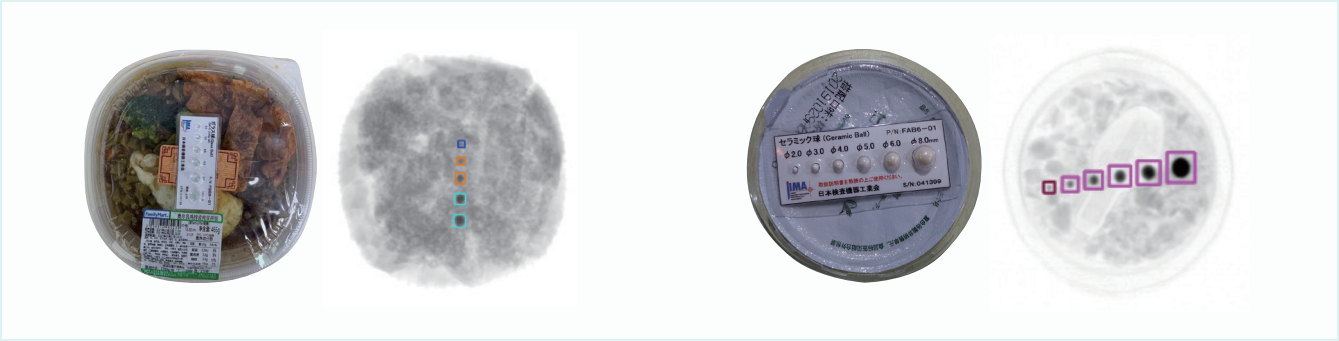
NUCTECH

NUCTECH™ FX4030C

Food X-Ray Inspection System

The NUCTECH™ FX4030C Food X-Ray Inspection System can effectively detect metal, glass, stones, bones, ceramics, hard rubber, resin, shells and other contaminants in food to maximize food quality and safety. With advanced X-ray inspection technology, strong environmental adaptability, high inspection sensitivity and reliability, the system can easily meet the inspection requirements of contaminants for medium size packaged products. In addition, the system can also be applied to different industries like pharmaceutical, chemical and microelectronics, etc.



➜ Intelligent System with Auto-learn Capability

- The self-learning process is based on the complexity of the inspected objects and does not require manual operation
- Intelligent algorithm can provide dynamic feature-recognition and automatically select the best parameters for high sensitivity
- The auto-learning process is less than 20 seconds and does not exceed 10 images

➜ Safe and Reliable System with Strong Upgradeability

- Designed with safety monitoring function, the system meets strict FDA's radiation safety standards
- With modular design, the main units of the system including X-ray imaging part, touchscreen and controlling part can be kept for further use even if the production line is upgraded. It's not necessary for overall system replacement

➜ Stable System, Easy Operation and Maintenance

- Use Linux system to ensure stable operation and virus immunity
- Use first-class brand components to ensure high stability operation
- Be able to save and export test results
- Equipped with an easy-to-assemble/disassemble conveyor belt for convenient washdown on site

➜ Strong Environmental Adaptability

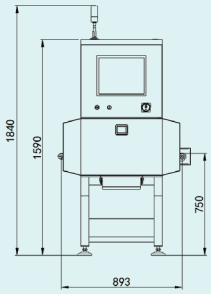
- Adopt the fully sealed, double-layer thermal cycling, and anti-conden sation design to cope with humidity, high temperature and tempera- ture changes in the work environment
- With high protection rating, the conveyor belt can be washed down directly

Technical Data

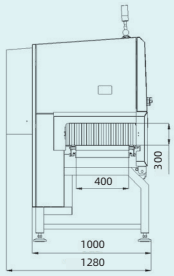
Model	FX4030C
Aperture size	400 mm (W) × 300 mm (H)
Operating height	800 mm ± 50 mm
Belt speed	5~60 m/min
Weight capacity	Up to 10 kg
Max. inspection sensitivity	Stainless steel ball (SUS304): Φ 0.3 mm Metal wire: Φ 0.2 mm × 2 mm Ceramic glass ball: Φ 0.8 mm
X-ray source	Up to 80 kV/210 W
X-ray emission	< 1 μSv/h

Human Machine Interface (HMI)	17- inch LCD touchscreen
Auto-learn function	Fully automatic mode
Disposal of rejected products	Audible and visual alarm; Automatic rejector(optional)
Power supply	220 VAC, 50~60 Hz
Operating temperature	0~45 °C
System weight	350 kg
IP rating	IP66 equivalent, wash directly

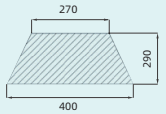
Notes: The smallest detectable size of contaminants is subject to the material composition of the product, packaging material, thickness and other parameters.
In the actual production environment, please refer to the on-site test results of products.



Front-view Size



Side-view Size



Max. Inspection Range

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