

ICON X-RAY SYSTEM

The Icon is a highly accurate, fully integrated X-Ray system, specifically designed for high care food production environments.

The Icon X-Ray system is purposed for inspecting packaged products for contaminant materials such as metal, ceramic, glass, and high-density plastics. Contaminated packs are rejected with an efficient, integrated reject system. The Icon has been designed, engineered, and constructed to stringent food grade engineering standards.

It offers comprehensive auditing and traceability statistics, which complement good manufacturing practices and enable you to maintain food traceability, quality, and safety.



X-RAY INSPECTION

Detection algorithms enhance performance in applications with variable density products.



INTEGRATED REJECT SYSTEMS

Robust reject systems such as overhead sweep & air blast can be integrated into the system to maintain an efficient overall footprint. Modular reject stations available.



EASY TO USE

Simple HMI interface ensures user-friendly operation and enhances process efficiencies. Industrial capacitive touchscreen display features 10-point touch and remote connectivity.



SANITARY DESIGN

Hygienic design supports sanitation processes with easy clean, sloped surfaces to promote water run-off and speed up drying time.



LOW MAINTENANCE

Easy disassembly of components for quick and efficient sanitation and maintenance. Fully enclosed operation. Tamper free design.

APPLICATIONS



Bakery



Confectionery



Chocolate Bars



Packaged Meats



Packaged products



Nutritional Bars

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Specifications & Options

CONSTRUCTION	Stainless steel construction Compact footprint Interlocked access panels
MECHANICAL	Continuous duty brushless DC motors Sealed for life bearings Toolless removable conveyor belt for ease of cleaning
HMI	Full colour projected capacitive touchscreen display 16:9 Aspect Ratio User-friendly high-contrast layout
LINE INTEGRATION	Secure remote web browser connection & monitoring 360 degree visible & interlocked status beacon Fully programmable I/O functionality
MONITORING SYSTEM	Live internal view camera monitoring system to view production state within the machine in real time
REJECT INTEGRITY	Standard: Reject confirmation Bin full indicator In-feed sensor Lockable collection mechanisms Optional: Reject return sensor Exit eye/Back up sensor Bin full indicator Additional product tracking sensors
QA SYSTEM SUPPORT	Comprehensive Statistics Set (Audit) generated for download by USB or accessible through Contact 4.0 interface to enhance traceability and security Industry 4.0 live collection of data via network adapters (optional)
MANAGEMENT CONTROL	500 products (expandable) Configurable user access with individual user functionality Multi-level access Self diagnostics status messaging RFID card access (optional)
X-RAY INSPECTION	X-Ray Generator: Digitally controlled Self-cooled 300w X-Ray generator Automatic variable start-up program to maximize performance and life span of X-ray tube X-Ray Detector: 16-bit high speed High-stability 0.8mm diode pitch linear array (optional 0.4mm diode pitch) 5-second auto calibration Line rate 2,000 lines per second 16, 384 grey levels per pixel
SAFETY	Standard Category 4 Safety Circuit End-user ability to integrate into safety circuit Additional features available upon request (extra buttons, sensors, etc.)

Industry 4.0 Networking and Integration:

Connect to Contact 4.0 for in depth, turn-key data logging and reporting across an entire suite of networked Fortress inspection machines. Optional communication features allow for automatic and ad hoc generation of batch reporting across multiple machines simultaneously, and are accessible from a single interface. Reports include all machine events such as:

- ▶ Parameter changes
- ▶ Log-ins
- ▶ Fault status
- ▶ Total production statistics
- ▶ Reject counts

These secured reports ensure clarity and traceability of all machine events and may be generated automatically or on demand and forwarded to individual users.

Data Integration

The Icon X-ray seamlessly integrates into existing IT and factory control systems. Collect statistical data and the status of each machine, or control their operation via optional OPC-UA or Ethernet-IP adapters.

Simple Operation. Outstanding Reliability. Exceptional Performance.

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TECHNOLOGY