

## Intelligent X-Ray Inspection System

### ISD-NFX4016-G2

The X-ray foreign matter detection system is widely used in food and industrial production. It can detect very small foreign matter such as metal, glass, stone, bone, high-density rubber and plastic on the surface and inside of the product. It provides good quality control and assurance during the production process for high-standard enterprises.

- AI intelligent defect-recognition algorithm, and with software self-learning function for excellent detection accuracy.
- Can detect small foreign objects such as metal, glass, stone, bone, etc.
- Support detection of various defects such as cracking, missing corner, overlapping, etc.
- Open calibration tools, easily to obtain your own algorithm for own products
- The conveyor structure is stable and can be easily integrated with the existing production line
- Support the detection of packaged products or unpacked materials, it can be matched with various types of equipment for removing the defects.

## Features

### 1.Intelligent Detection

X-ray intelligent defect detection system is widely used in the detection of foreign matter in packaged seed foods, candy foods, frozen foods, snack foods, dairy products, baked foods, fruit and vegetable products, and aquatic products, and can efficiently identify metals, glass, stones and other malignant impurities contained in food and medicine. The ultra-high-resolution sensor is equipped with AI modeling method, which has strong self-adaptive ability, effectively eliminates background interference, and makes tiny foreign objects nowhere to hide. The equipment can also realize detection of product defects, one machine with multiple functions and scenes.



## 2. AI Open Platform

The X-ray intelligent defect detection system can not only efficiently and accurately remove common metal foreign objects, but also support the AI open platform, can effectively train the algorithm model for the products produced by the enterprise, expand the detection types, and then realize the intelligent detection of specific impurities. Eliminate problematic goods and prevent them from entering the market.

## 3. Parameter Self-adaptation

The X-ray intelligent defect detection system is of excellent quality, not only easy to install, durable, but also equipped with user-friendly software, guided configuration, easy to operate, you can get started in minutes, and supports parameter self-adaptation, suitable for various complex production environments.

### Specification

Item		Data	Remark
<b>Structure</b>	Tunnel Width	400mm	
	Tunnel Height	160mm	
	Dimension	2009(H)*1094(L)*902(W)	Indicator height included
	Weight	380kg	
	Material	Steel (SUS304)	
<b>Conveyor</b>	Material	Food-grade PU	
	Width	440mm	
	Height	800±50mm	
	Speed	10~60m/min	
	Max. Load	10kg	
<b>X-Ray</b>	Generator Voltage	40kV~80kV	Voltage adjustable, Power < 350W
	Generator Current	4000-8000μA	
	Power Consumption	350W	
<b>Sensitivity</b>	Steel Ball (Φ)	0.3mm	
	Steel Wire	0.2*2mm	
	Glass Ball (Φ)	1.0mm	
	Ceramic Ball (Φ)	1.0mm	
	Algorithm	Foreign Object / Defects detection	

<b>Others</b>	Protection	Conveyor: IP66 Other Part: IP66	
	Detectable Item	Packaged, Bulk	
	Rejection method	NG and shutdown; or Automatic Rejection (optional with rejecting system)	Compatible with multiple rejecting system
	Alarm method	Audible and Visual Alarm	
	Display	21 inch, Touch Screen, 1920*1080	
	Cooling method	Industrial AC	Thermostatic control/ Temperature adjustable via the panel
	Leakage protection	4 layers protection curtain at each entry/exit side	
	Leakage control	<1 $\mu$ Sv/h	10cm away from the device
	Power	AC220V, 50/60Hz	Allowable voltage fluctuation within $\pm 10\%$
	Working Temp.	-10~40°C	
	Working Humidity	30~90%RH, non-condensation	
	Included interfaces	Ethernet, USB; supports MES interfacing	

## Dimension

